



NEW ZEALAND DX TIMES

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JUNIOR DXER AWARD.

Winner of the League's 1976 Junior DXer Award is Paul Rawdon of Lower Hutt. Paul wins the award for his all round contribution to the hobby through his regular contributions to the Times, both on shortwave and medium wave, and his personal development as a DXer, expressed by the number of countries verified. In his late teens, an employee at Post Office Headquarters in Wellington, Paul was first bitten by the DX bug 3 years ago. He now has 315 QSLs from 100 shortwave countries and 138 QSLs from 17 medium wave countries. Best of these he considers to be 4VEH Haiti 11835kHz, CSA67 Azores 4865kHz with 1kw, BBC Masirah Island 1412kHz and Israel 737kHz. The Azores verie gave Paul the 1976 shortwave Best of the Year Trophy. DX equipment currently in use is a long wire antenna 60ft long and 30ft high, coupled to a Codar R480 ATU and PR40 preselector, Trio 9R59DS communications receiver, BC221 frequency meter, "Practical Wireless" Audio Processing Unit, Thorn Mk XII 4 track mono and ITT cassette tape recorders. A recent sideline to his DXing is an interest in Citizen's Band Radio, with callsign WN1575 allocated. For this activity a Handic 21 hand-held transceiver is used.

Our congratulations to Paul on his award.



DEUTSCHE WELLE ON THE MOVE.

Top DX news this month is the opening of the Voice of Germany's operation through the combined BBC/DW Caribbean Relay Base at Antigua in the Leeward Islands group. With effect 1 November, the schedule from Antigua, as supplied by John Mainland is: English to North America 0130-0150 GMT on 6040kHz, 0530-0550 on 5960, 1300-1320 on 9605. German to North America 0400-0520 on 9545, 1330-1350 on 9605. German to South America 0600-0950 on 9690, 1200-1220 on 15185. Spanish to South America 0230-0350 on 11765, 1000-1130 on 9735, 2300-0030 on 9590. Portuguese to South America 0030-0105 on 9590, 1000-1035 on 6145 and 2130-2300 on 9590kHz.

Deutsche Welle's Asian Service Director Dr H. Kuckuk was recently in NZ for a brief visit and spoke with Auckland member Douglas Doull. The Asian Service receives about 20 letters a month from NZ listeners. Dr Kuckuk briefed Douglas on the next relay development by DW - the Sri Lanka installation. It is hoped that the go-ahead for this site will be received from the Sri Lanka government by the end of this year. Finance has been approved and transmitters selected. With regard to the Antigua relay it is unlikely that it will be used for English broadcasts to this part of the world.

INSIDE: EXCITING NEWS OF THE YAESU FRG-7. AT LAST A REASONABLY PRICED QUALITY RECEIVER IS AVAILABLE TO THE NZ SWL AND DX ENTHUSIAST!

CLOSING DATE FOR CHRISTMAS ISSUE: MONDAY 6 DECEMBER 5pm. DETAILS OF YOUR DXING, VERIFICATIONS, LADDER TOTALS, BEST-of-the-MONTH ENTRIES, TO P.O. BOX 2956, WELLINGTON, NEW ZEALAND. THANKS FOR YOUR CONTRIBUTIONS!

FROM THE BRANCHES

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SOUTHLAND The October meeting was held at Eric McIntosh's with 11 present. An outline of the recent League AGM in Oamaru was given by President Neville Henry, and other members reported on reception at the Tiwai site over Labour Weekend. A meeting of the Countries Committee is planned, while other committees are to be set up to start planning for the 1978 Convention in Southland. Arthur Williams reported on reception conditions during a recent visit to the lighthouse at Puysegur Point. Competitions: Broadcast to Ray Crawford with CMJG Cuba 1270 1kw and Turkey 1016 1200kw. SW to Arthur Cushen with Athens 9760 and VOA Monrovia 3990 8kw.

CANTERBURY The October meeting was held at Jamie Hines' on the 10th with 7 members present. Business included the Oamaru AGM, Convention 77 and the Convention raffle. Competitions: SW to Bob Boundy with RSA 4875. ECB to Bruce Officer with 3XB. The November meeting will be held at Bob Boundy's, 53 Greendale Avenue on the 14th at 8pm. The December meeting is planned for Sunday 12 December at the Spenceville Bach, from 3pm onwards. A barbeque tea is planned.

WELLINGTON The October meeting formed part of a DXpedition weekend at Tatum Park, site of the 1976 Convention, on 29-31 October, with a total of 7 in attendance. President Bruce Williams presented member Paul Rawdon with the Best of Year trophy award, announced at the Oamaru AGM. The poor attendance was the subject of some concern. Competitions: SW Senior: DW Malta 21650 Dene Lynneberg and Rhodesia 3396 Paul Rawdon. SW Junior to Paul Edwards with Mozambique 9620 and Nigeria 4990. ECB XEROK 800 Paul Rawdon. Next meeting will be held Friday 26 November at 8.00pm at Paul Rawdon's, 70 Copeland Street, Lower Hutt.

WAIKATO-RAY OF PLENTY The branch AGM was held on 16 October in conjunction with the DXpedition to Choape. David Feldon was in the chair, and others present were Stan Larking, Mike Smith, Peter Maindonald, Colin Campbell plus visitors Barry Williams and Bill Huddleston from Auckland, and Ray Babbage from Wellington. An apology was received from John Potts. Incoming officers: President David Feldon, Secretary Colin Campbell (c/- P.O.Box 141, Rotorua), Committee member Peter Maindonald, Whakatane rep: Stan Larking, Matamata rep: Mike Smith. Business included a report on the past year's activities, other sites for DXpeditions in the Whakatane area, a return visit to Choape in 1977, the purchase of an aluminium ground-plane aerial was agreed to, protests at the high cost of radios suitable for DXing. It was agreed to keep branch organisation at a low level of organising and left to individuals. Meetings will be held as convenient in Rotorua and other places.

*Let us show you something you won't see
anywhere else—spectacular gorges and chasms,
the ochre red and orange of the ranges, tall
white ghost gums and much more . . .*

....Alice Springs, Ayer's Rock, 8AL, Radio Australia studios and Shepparton transmitters, Milawa Winery, radio shopping spree... you name it and we'll try and fit it in! Response to date has been very good with tentative enrolments from Canada (Theo Donnelly), Hawaii (Norm Maguire) Nelson, Wellington Napier, Auckland and Oamaru. Enrol now and think about the money later - so that we have you in mind with our plans. If you'd like a Yaesu, Realistic DX160 or Selena on DXCURSION let us know and you can bring one back. DXCURSION brochure with this issue.



**DXCURSION
AUSTRALIA 77**

BROADCAST DX

with Bryan Clark

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Fantastic just isn't the word! The reception of European long-path signals this past month has no parallel in your editor's 14 years of listening to the broadcast band. Down at the Southland Branch antenna farm at Tiwai, Ray Crawford found Radio Caroline, the sole-surviving offshore European pirate coming through on 1187kHz on Saturday 23rd. Italians and Germans were heard at excellent strength, also France and Monte Carlo. Ray comments that it's by far the best he's ever heard Europeans in the evening. Even in the morning, via the short path, they have been coming in 2 to 2½ hours after daylight! Up in Opunake, Robin Chambers has been netting the evening Spaniards, Portuguese and Capital Radio, London 1546kHz. Here in the capital city, Portugal 1034 and 1578 have been regular in recent weeks, Lisbon 1594 has been extracted from the Radio I splash for the first time, Madrid 1223 on classical music, and lots of juicy carriers on the threshold of audio. All this on the NZRDXL 1 metre loop and Eddystone 680X. With the sunspots at their lowest point this century, it's impossible to speculate what DX excitement is ahead.

A new country perhaps for NZ DXers is Antigua. Last month the BEC opened their high-powered SW station; this month we've heard the religious broadcaster Caribbean Radio Lighthouse on 1165 kHz. Although only 10kw, they came through as well as regular Radio Paradise 1265. If you can hear the latter at 1000 GMT check 1165, and also 545 for the French speaking Radio Jumbo, Dominica.

Developments on the local scene seem likely. From the tender specifications for low power MF Broadcast Transmitters, the ECNZ seek to ascertain the availability, cost and technical description of 50 to 250 watt outlets, indicating that it has 'a possible application' for this equipment, 'to be used at remote locations'. Data is sought to 'assist in long term planning'. This info supplied by member Ross Clark. Radio NZ has announced the inauguration of a combined Concert Programme/Commercial station to serve Hastings and Southern Hawkes Bay, with on-air due for May-June 1977 at the latest. From Craig Crawford comes a report that 3ZB may move from 1100 to 960kHz, with 3YC moving to 540kHz with a new transmitter. Watch for tests!

Before digging into the mail, don't forget that Queensland, Western Australia & Nth Territory remain on standard time. Rest of Aussie and NZ are on Summer Time till March.

DAVID FELDON Rotorua logged KKIS,WWL, KRVN,ZK2ZN,KOB,3AR,KFAB,KTOM,CJVI and KIOE all at Bay of Plenty Expedition to Ohope. Caught the bug Dave?

DAVID RICHMOND Christchurch has QSL'd 4XB and KHJ 930.

SPECIAL

November marks the start of the DX season proper for our friends in North America. In the coming months, courtesy IRCA and NRC, we will list details of special broadcast -s organised by American radio clubs. While chances of reception 'down-under' are not high, members have been lucky in past years to hear stations which would otherwise not be on-air at a favourable time for reception in NZ.

MONDAY 15 NOVEMBER

0730-0830 GMT WGLB Wisconsin
1560kHz 250w. (NNRC)
0800-0830 GMT KVRN Texas
980kHz 1kw. (IRCA)
0830-0900 GMT KLBM LaGrande,
Oregon 1450kHz 1kw (NRC)
0900-1000 GMT WCWC Wisconsin
1600kHz 5kw. (NNRC)

MONDAY 22 NOVEMBER

0800-0900 GMT KMEL Junction,
Texas 1450kHz 1kw.(IRCA)

MONDAY 29 NOVEMBER

0600-0700 GMT WKTY Wisconsin
580kHz 5/1kw. (NNRC)
0700-0800 GMT KVVW Pearsall,
Texas 1280 500w. (IRCA)

MONDAY 6 DECEMBER

0600-0700 GMT WOND New Jersey
1400kHz 1kw. (NNRC)
0700-0900 GMT WTAW Bryan,
Texas 1150kHz 1kw.(IRCA)
0800- GMT WNAT Natchez, MS.
1450kHz 1kw. (NRC)

MONDAY 13 DECEMBER

1000-1100 GMT KBEC Waxahatchee,
Texas 1390 500w(IRCA)

Space limitations prevent us including info re prgm format, addresses for reports. If you do hear anything, drop a line to Box 2956 and we'll provide details.

ROBIN CHAMBERS Opunake has reported RNE Madrid 1223, RNE Caceres 773(F/up) KMPS and KIPA. Verles from RNE 773, Izmir 926 and DWWW. Nothing seems impossible anymore. SABC next?

CAN-AM REPORT 4

WHAS 840, one of the main stations in Herb Jepko's 'Nitecap' telephone talk show network, has pulled out of the network. Their format now will be MoR with heavy attention to news, weather, sports. (Eds note: we hear Nitecap best on KRLD 1080, KSL 1160) Nall NRC

Of great concern to our DX friends in North America is current FCC consideration of 'superpower' transmitters on the clear channels as one way of providing night-time radio coverage to the 25 million plus Americans who fall within the so-called 'white areas'. KFI 640 wants 750kw DA nites, WSM 650, WLW 700, WGN 720, WBAP 820, WCCO 830, WHO 1040 all want 750kw. WJR 760 and KSL 1160 want 500kw. WWL 870 simply wants 'superpower'. IRCA member Fred Prechtl recalls the early 30's when his local WLW Cincinnati Ohio was running 500kw - the station could be heard in the 'background' of all other local stations.

- 800 KQIN Washington seeks call KKCW.
- 950 WHVW New York granted WHPN.
- 960 KALE Wash. seeks 5kw days.
- 1020 KGBS seeks new call of KTN.
- 1150 KWBZ Colorado seeks 1kw D nights.
- 1260 WMGC Magic Radio, Ohio ex WIXY.
- 1290 KOIL is off the air.
- 1300 KRVB Medford, Oregon 5kw days CP.
- 1330 KPOK now has new call KUPL, 24hrs easy listening format.
- 1380 WDAT Fla now 5kw days, 2.5kw nite.
- 1390 KLFM Nth Dakota 5/1kw now KKOA.
- 1450 KEST Calif NSP with mostly black gospel format.
KUDI Mt has new call KQDI.
WKT Me granted new call WXIV.
KVEN American Entertainment Net, 24hrs SP Sun 0900Z, Mon 0800 GMT
KTIP Calif is UPI network.
KPSI Calif 24hrs SP Sun, Mon 0800.
KONP Wash. asked to 0600 Mon-Thur, to 0800 GMT Fri-Sat.
- 1480 KVAN Washington now 5kw nights.
- 1520 KXYI now on NIS news net. NBC nx.
- 1540 KKAP Aptos-Capitola, Calif is CP.
- 1550 KGAR Washington going 10kw nites.
- 1560 KCJJ Iowa City, Ia 1kw/1kw is new.
- 1570 CHLO signs off at 0101 ELT.
KHNy Calif is new call for KACE.
- 1580 KTFU Ariz has new call KNIX grant -ed. 50kw day, 10kw CH.
- 1600 KASH is now on NIS network.
KCRG S.P is 2nd & 4th Sunday 0330 -0530 ELT (0830-1030 GMT).
Credit to our friends at NRC/IRCA

BROADCAST MAILBAG continued

Dene LYNNEBERG Wellington has a lone QSL from Israel 656. SW easier?

GORDON HUTCHISON Kaiapoi has reported 3WV, 7ZL, 2NU, 5CL and 2BL. Veries from 2CR, 4QR, 2FC. Don't forget your name on each page contributed. Thanks.

STAN LARKING Whakatane has QSLs in from Funafuti 580, Ahwaz 1390, Windy 890 and 4QW. Logged on branch DXpedition to Ohope - Sabah 1475, HLDA 1570, KUAT 1550 on tone test (good!). Logged at home - KIOE, Lisbon 665 and 1034 (even better!) Tx for call Stan.

ALEX WELLNER Bondi NSW has a lone one in from 7ZU. Hope you're settled in now, and location is OK DX-wise Alex.

IAN CATTERMOLE Blenheim has reported 3CV, 5FI, KXEL. Veries rolling in from 2QN, WN, KTWQ, KGIL and KMVI.

STUART FORSYTH Auckland is looking forward to the end of exams. Meanwhile QSLs in from 2ZH, YZ, ZD, 4XD, ZA, QD, 3SR, 1ZK. You've got priorities right.

ANDREW WHITE Christchurch has logged KSCO, 1YW, 2YX, K TSA, CFRN. Replies in from K TSA, CFRN, 3GL, 1ZA, ZE, 2YZ, 4YZ.

PAUL EDWARDS Wellington has a single logging KTOM, but more to come.

JOHN ALICHIN Auckland has been rewarded with QSLs from 2LG, KA, BE, AY, AD, GO, PK, 3MP, 4GG (2.5kw), 4KQ, 5MV. One report away to 2TM. Thanks John.

COLIN CAMPBELL Rotorua, on the annual fling at Ohope, has reported KEX, KJR, KGW, KFRC, KIPA, KNBR, KCBS, KVRM, KDKA, KKIS, KFAX, KUGN, KMVI, WSM, WLW, WGN, WBAP, CJOR, CJJC and CJVI. Now for replies!

CRAIG CRAWFORD Christchurch logged WREN 1250 and KTWQ on 27/10 in the absence of TVI and some RNZ stns. Your news always interesting!

TONY KING Wellington celebrated the arrival of his Eddystone 940 with a logging of WFBC 1330. Go to it!

WHAKATANE DAY-TIME TRAIL

Further to Robin Chambers check of the band at midday (see last Times), Stan Larking notes the following in the 2330-0130 period:

560 Fiji, almost good. 670 Noumea good, 710 Fiji fair, 740 Tahiti poor, 1020 Tonga poor at 0130, as was WVUV American Samoa 1120. No Aussies heard at this time of year.

BROADCAST TRAIL ⁵

MORNING

- 602 Reunion, briefly fair 1755. TO
 705 Thai lang stn exc to s/off 1802. TO
 1800 Time pips & id "...Ladies & Gentlemen..Radio Tay(?)..KHz ..mHz..", Brass band, choir. RCh
 728 Sadiyat regular 1700. TO
 740 JORR here at 1630. TO
 750 Radio Malaysia, Sabah 1430. TO
 746 Syria very good 1745. TO
 764 Omdurman fair 1745. RCh
 790 Singapore, sports 1509 vg. LM
 908 Iraq fair at 1800. TO
 910 KNEW fair 1255. X
 950 KJR good over Aussie 1244. X
 955 Burma EE nx, weather 1445. TO
 960 KWKY good 1237 (Sked day only Ed) X
 990 KKIS good with news 1230. X
 1025 Kremlin Bells fair 1800. RCh
 Austria/Israel mixed. (Time?) RCr
 1070 KNX very strong 1209. X
 1088 Albania under USSR 1815 //1016. X
 BEC EE nx 1700 once only. /RCh
 Soon faded under Tirana. RCr
 1090 KING good 1205. X
 1100 KFAX fair-good 1210. X
 1115 Italian good 1745. RCr
 1124 Bulgaria under/over Libya 1740." RCh
 1170 KJNP nx 1612 fair. 2CH, KOHO null. /LM
 1187 Radio Caroline 1735-1800 mostly over Hungary. RCr
 1196 VOA Munich 1800 fair. RCr
 1304 Poland fair 1815. RCr
 1320 CHQM mixed here 1410. RCh
 1367 Poland over Russian 1820. RCr
 1385 Radio Centro SS fair 1815. RCh
 1376 Lille 1730 good. (sorry Ed) RCr
 1426 Iran fair 1750. RCr
 1448 Italy good, regular 1730. RCr
 1475 Sabah closing 1300 fair. Y
 Cordoba, Spain over Austria
 1825-1900 on 2200ft SW aerial. RCr
 Russian best on 600ft NW. TO
 1529 Vatican good 1820. RCh. 1730. TO
 1530 KFBE fair at 1350. RCh
 1560 KMPC good at 1350. RCh
 1570 HLDA 1300 fair mixed AEC. Y
 CHUB excellent 1420. RCh
 1578 Italian chain fair 1810. RCh
 1586 German quite good 1810. RCh
 1600 KUBA fair 1415 to 1420. RCh
 1602 Munich fair signal 1800. TO

EVENING

- 540 CBK off with GSQ anthem 0700. RCh
 550 KGW over 2CR, KMVI good 0710. RCh
 545 Radio Jumbo fair in FF 1001 30/10
 First Wgtn reception. EC
 550 KMVI strong 0635. RCr
 590 KUGN mixing KGMB 0711. X
 610 KFRC mixed another USA 0725. X
 620 KIPA good 0645. RCh
- 620 Nuie fair 0642. Z. KIPA over Nuie. X
 640 KFI over 4YW 0640. X
 650 WSM in the clear 0631. X
 KORL mixing WSM 0726. X
 665 Lisbon 0615 classical mx, poor. SL
 680 KNBR good 0628. X
 683 RNE Sevilla fair 0610. RCh
 700 WLW good 0617. X
 720 WGN good 0615. X
 730 CKLG & XEX mix 0616-0815. Many
 740 KCBS in the clear 0905. No Aussie. X
 773 RNE Cacares often good, 0555-0630
 Int. sig of S.W. RNE at 0608. RCh
 790 KABC 0740 with teletalk show. MB
 800 CJJC mixing with PJB 0740. X
 PJB in SS 0900 over XEROK. X
 820 WBAP poor 0600. X
 840 WHAS over 2ZD 0740. LM
 850 KOA Denver good with Nx 0800. EC
 870 WWL fair here at 1135. Z. 0645. PO
 872 Unid weak-poor with mx 0620 3/10.
 880 KRVN under 1YC 1120. X. Z./RCh
 WCBS 0715 27/10 during stopwork
 by RNZ Auckland staff. MB
 910 KNEW Nx 0730-0735. Id "K91". MB
 KNEW over KJJJ 0553. X
 950 Belgrano, Argentina 0720 in SS. RCr
 990 KKIS Mutual net nx 0901 good. LM. Z
 1020 KDKA good at 0539. X
 1030 KTWO excellent 0635. RCh
 VQO very strong over KTWO 0800. X
 1034 CSB2 regular 0630-0705 late Oct. EC
 0610 good in PP over TVI! SL
 Lisbon good 0635 10/10. RCh
 1070 KNX clear thru 1ZB carrier 0630-
 0800 27/10 during RNZ stopwork EC
 Another Yank way under 277/10. RCh
 1090 KING Seattle poor at 1015. X
 1080 KRLD vg with Brannif advts 0642 EC
 1100 KFAB good 1000. Z
 1105-1106 Unid SS poor 0635 10/10. RCh
 1120 WVUV over 4YQ 0804. X
 1165 Caribbean Radio Lighthouse, Antigua
 s/on 0957 good 30/10. EE flg prgm
 till fade-out 1020. EC
 1187 Caroline 0625 23/10 weak-fair. RCh
 1190 KEX over 2NZ 1030. X
 1223 RNE Madrid good 0556-0607 often,
 with id as 'Transmitte Radio Nacional...del Centro Programa.' RCh
 Peaking fair 0625-0700 1 & 2/11 EC
 1232 Strong carrier 0640 27/10. RCh
 1250 KYAC 0735 27/10 during strike. MB
 WREN mixed another 0657-0710. RCh
 1260 KGIL good 0750. LM
 CFRN Nx 0800. MB. 0818 Wx good. EC
 1265 Paradise poor opening 0900. X
 1268 Unid poor here 0706 21/10. RCh
 1300 HJOG Antillas good 0645-0745 21st
 KMPS sports scores 0648. EC /EC
 Good 0715. KOL was old call. RCh
 1304 Unid very weak 0655 15/10. RCh
 1320 KCPX ABC News 0800. MB
 1330 Radio Vigia good 0720 21/10. EC

BROADCAST MAILBAG continued

RAY CRAWFORD Tiwai & Invercargill has reports away to 3MP, 3MT 720, Belgrano 950, Iran 1426, Surabaya 1065, Poland 1367, Israel 1025, Austria 1025, Qatar 674, France 1493, EAJ24 Cordoba 1475, Radio Caroline 1187. (What next Ray?)



Veries in from KLAC 570, Istanbul 1016 CMJG 1270, CMJP 1190, Ondas Orientales 1155 for country 123.

TED OSBORNE Wanganui has had a good month with reports to Egypt 773, 7SD, Fiji 710, 1320, VOA Thailand 1580, 7NT, AFRTS Guam 1550, Malta 1570, Noumea 670 Riyadh 587, Sadiyat 728, Burma 955, Syria 746, Sharjah 1575, Sabah 750. 844 is Tarawa, Gilbert Islands Ted. Tuvalu has Funafuti on 580. Presume yr 1630 stn was on 1070 - if so most likely AIR with External Service from Rajkot. West Africa almost unheard of in NZ. Ships at sea classed as International Waters, no country. Competition points usually those of nearest country. Agree re IRCs! QSLs from PJB, 5CL, 6WF.

PAUL ORMANDY Oamaru has reports off to 5SE, 4XB, WWL, KGBT. QSLs from KORL and TIFC 1075. Good! Only AI station on 1380 per my lists is KTOM, but there are surely others. Don't think IRCs are very useful to Latins. Cassettes definitely not! We have been working on your Guide idea for 2 years, with report section still in preparation.

RAY BABBAGE Wellington logged Libya 7442 at Tatum Park, and at Ohope:- KRVN, Paradise 1265, Sabah 1475, 2JJ, Burma 955, Sevilla 683, KKON, HLDA, 5AA, Tahiti 740. QSLs to come.

BRYAN CLARK Wellington has verified Gilbert Islands 844, KBOI 670, (31st state), RNE Sevilla 683, TIPJ Victoria 1225. Reports out to WFBC 1330, RNE Madrid 1223, Caribbean Radio Light-house 1165.

BEST OF THE MONTH

SENIOR: Ray Crawford, Invercargill
CMJP Radio Surcos, Cuba 1190kHz 1kw
163 points.

JUNIOR: Paul Ormandy, Oamaru
TIFC Costa Rica 1075kHz 5kw
142 points.

Stan Larking, Z=David Feldon, all on their Ohope DXpedition 16/17 October.

LEIGH MORRIS Palmerston North has reports to KGIL, KJNP, Singapore 790. Logs of KTOW, KPOL, ZK1ZC. Reports to these too Leigh or just observations?

MERV BRANKS Invercargill is back into the swing with reports to 4QY, 6WN, KYAC 1250 (ex KTW). Verie from 2XW. Merv is in support of broadcaster protests for obvious reasons! Morning Trail too late Merv.

PAUL RAWDON Lower Hutt stirs on MW with reports to DYLA, 6BS, WCKY and 8TC 680 noted poorly under 6BS at 1415.

SUTTON BURTENSHAW of Invercargill is too late to share the laurels for reception of Caroline so hope this mention suffices! Also logged at Tiwai over Labour Weekend: Cordoba 1475, Abu Dhabi 728, Damascus 665, Oman 1035, Iraq 1038, Hungary 1187, Iran 606, Qatar 674, Israel 1025. QSLs from 7BU, HJFZ 1055, HJJH 1595, HJTU 1360. Great!

PAUL RAWDON QSL'd 8TC. Sorry omitted.

BROADCAST EVENING TRAIL CONCLUDED

- 1330 KFAC fair-good classical 0650. RCh
- WFBC 0637-0721 12/10 fluttery. BC
- 1380 WLCY vg with pops 0735. Nx 0745. BC
- KTOM 0715 loud. MB, 0730 AEC newsFE
- 1450 HJPM Radio Galeon vg 0710 28/10BC
- 1466 Monte Carlo good 0550. RC
- 1475 Unid weak-fair 0600. Austria? RC
- 1490 Unid Mexican? Radio Huadina or similar. Often mentioned cinco." Hrd 0641-0708 17/10. As above but my guess 'Huavincio'. Who? BC
- 1493 France fair 0615 23/10. RC
- 1502 Perhaps RNE? SS 0640 10/10. RCh
- 1510 KGA fair 0700. TO, fair 0735. LM
- Country mx over WLAC allnight. MB
- 1530 KFBK vg 0700. TO, WCKY good 0619. PR
- KGFT SS & EE s/off 0655 good. PO
- 1535 Unid Latin 0701-0725 31/10 fairBC
- 1540 KZAM 0805 Mons with KPOL off. MB
- WFTR mixed with news 0700 13thRCh
- 1546 Capital Radio London 0645 15/10 " Unid with orchestals 0550. RC
- 1554 Nice good 0530, weak by 0630. RC
- 1578 Italian exc 0530 regular. RC
- Portuguese here regular 0645. BC
- 1586 Germany best European 0540. RC
- 1600 KORG good 0610. RCh. KASH 0805. MB
- 1602 Munich, Germany good 0540. RC

CREDITS: Ted Osborne, Robin Chambers, Leigh Morris, Ray Crawford, Bryan Clark, Paul Ormandy, Paul Edwards, Paul Rawdon, Stan Larking, Merv Branks. X=Colin Campbell, Y=





Part V in a series by Brian Oliver, Kerikeri.

KNIFE EDGE BENDING Under certain conditions it is possible for a ridge of hills or mountains to exhibit very noticeable refraction of a VHF or UHF wave travelling over the crest. This can provide good reliable reception of a station about 200 miles away but interrupted by the hill, the path of propagation running at right angles to the hill. This knife edge bending effect is dependent upon the height of the hill

and the distance of both transmitter and receiver from it. A directional aerial pointing towards the hill, behind which is the transmitting station, often produces some exciting results.

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COLOUR BROCHURE AVAILABLE.

With this issue of the DX Times, NZ members will receive an informative full colour brochure describing an exciting new receiver on the market in this country - the Yaesu FRG7. This general coverage communications receiver (500kHz - 29,900kHz) utilises the Wadley Loop system, first introduced in the well-known Barlow Wadley XCR30 portable receiver. This, coupled with a triple conversion super heterodyne system, provides high sensitivity and excellent stability. Of most appeal to the SWL is the direct dial readout to 5 kiloHertz. Other features include automatic noise limiter, 3 position RF attenuator switch, AM-USB-LSB receiving modes, operation on AC 110/220v (not as in brochure), DC 12 volts externally or 8 torch batteries internally. If the AC supply fails, the DC supply is automatically connected. The FRG7 is all solid state, weighs just 7kg and measures 13½" wide, 6½" high, 11½" deep. While we haven't had the opportunity to try one ourselves, reports from members overseas indicate that the Yaesu FRG7 could be the best thing that's happened for the DX hobby in NZ for a long time. Harry Weatherly of Melbourne comments that appearance-wise it's a mighty fine set, far better on MW than the Barlow Wadley. On SW performance paralleled a good B-W. In California, technical whiz Ralph Sanserino rated it a far better performer on MW than the comparably priced Drake SSR1 and Barlow Wadley.

Thanks also to Leigh Morris for info.

The League's 28th Annual General Meeting was held in the Brydone Lounge, Oamaru on the 16th of October with the following members in attendance: Sutton Burtenshaw, Eric McIntosh, Arthur Cushen, Merv Branks, Neville Henry from Invercargill, Ash Nallawalla of Dunedin, Lance & Gay Johnston, Bob and Pam Boudy, Austin Hadler, Peter Mott, Lance Cullan, Jamie Hines and David Hadler from Christchurch, Bryan Clark and Tony King of Wellington, Muriel Bloxham, Ito Tsukigawa, Paul Ormandy, Gerald Harper, Ted Sutton, Philip Hope, Peter Grenfell, Paul Rosie and John Blondell, all from Oamaru.

On behalf of the North Otago Branch, Peter Grenfell welcomed those attending. The meeting was chaired by National President Sutton Burtenshaw, assisted by Neville Henry standing in for National Secretary Ray Crawford. Sutton and Vice-President Arthur Cushen were re-elected to their positions. Matters arising from the 1975 AGM minutes included an indication that the League Sticker designed by Ben Bowles would be printed shortly.

The President's Annual Report highlighted increasing membership and DX activity, a healthy financial position, a drop in strength of some branches, the most successful 1976 Convention, and the participation of League members in the reinstatement of Radio NZ on shortwave. In the Magazine Committee's Report the increase in circulation from 325 to 385 in the past year was seen as particularly gratifying, considering the subscription increases effected in early 1976. League membership is more than double that of any other DX organisation in the Southern Hemisphere (excepting Radio Australia's Listeners' Club). The need to balance DX Time's content in favour of shortwave highlighted a pressing need for previously unpublished articles with a shortwave theme to be contributed by members. SW accounted for 52% of Times content, MW 30%. The Editor regretted the need to put the Time's closing date forward to the first Monday of the month, and the move was not taken lightly. He also commented on postal delays, suggesting that a first class rate of delivery could not be expected in return for second class postage rates (3 cents per magazine). Arthur Cushen's Public Relations report detailed the publicity avenues for the League, the record number of enquiries about the DX hobby, mostly as a result of Arthur's Shortwave column in the NZ Listener, and continued efforts for a reduction in Sales Tax and Duty on communications receivers. The League Archives received some very interesting collections of QSLs during the year, including those of Cyril Blutcher and Lloyd Claydon. Mr Blutcher's superb Hammarlund-Roberts receiver has also been entrusted to the League, and along with his QSLs from the 1920's and 1930's, was the highlight of a display mounted in conjunction with the AGM.

The Inter-Branch competitions saw a repeat of the 1975 results: Albert Stanton Cup(MW) - 1st Southland 3507 points, 2nd Wellington 2862, 3rd Canterbury 2273. Hope McGregor Memorial Trophy(SW) - 1st Wellington 2855, 2nd Southland 2706, 3rd Canterbury 2294. Columbus Trophy(Agregate) - 1st Southland 259, 2nd Wellington 345, 3rd Canterbury 668. Individual Awards resulted: Best of the Year SW - Paul Rawdon CSA67 Azores 4865kHz 1kw, Best of the Year MW - Sutton Burtenshaw WHSL North Carolina 1490kHz 0.25kw. Junior DXer of the Year - Paul Rawdon, runners-up Ash Nallawalla and Paul Edwards.

Several remits related to League competitions were passed. The verification rules have been changed so that an official change in frequency of one or more kiloHertz will be counted as a new station. Ladder rule 4 was amended to require a minimum of 25 QSLs in either section before a member may join the Ladders. It was also agreed to set up a committee to review the Ladder Competition divisions, with a view to reducing the number of categories, to provide for greater competition. The restructuring of the Competition will be completed for presentation at the next AGM. A new grouping in the Continents Listings was approved - Central America, consisting of all countries listed under this heading in the NZRDXL Countries List, plus Netherlands Antilles. An annual competition to promote interest in the Best of Month competitions was suggested by Cecil Symmes of Wellington, and this will be considered by Adcom. An offer of a prestige DX award by private radio engineering...P

SW QSL

Well once again it's time to look into the mailbag and see what has been received and this month is no different with many excellent veries back, so I'll dip straight into the bag and see what we have. 9

ALGERIA: Radiodif. Tele. Algerienne 7245 kHz. QSL Card, frequency schedule & report form received for English report with 1 IRC. (L. Robinson)

BRAZIL: Radio Nac. de Brasil. 11780 kHz. QSL Card received by air in 28 days for English report. (M. Dalrymple) Radio Clube do Para, Belem. 4855 kHz. short letter and two postcards for a Portuguese report received in 19 days. verie signer Joao Augusto Proenca. (S.Greenyer)

CAMEROON: Radio Yaounde. 4972.5 kHz. Card showing map of Cameroon with mast protruding from Yaounde and 'Radio Cameroon' radiating from mast. Shows full details in French. Received in 27 days for English rpt and 2 IRC's (Edwards)

CHAD: Radiodif. Nat. Tchadienne. 4904.5 kHz Large QSL Card received in 20 days by air (M. Dalrymple)

CHILE: Radio Calama, Calama. 6100 kHz. QSL Card, three postcards and 25 mint Chilean stamps received in 37 days for a registered Spanish report and postcard. Verie signer: Oscar Plaza P. Director-Gerente. (S.Greenyer)

COLOMBIA: Radio Santa Fe 4965 kHz. Attractive card showing coffee picker & thanking for report on reverse. Received in 3 months 20 days for Spanish rpt, 1 IRC and stamps, sent registered. (P. Edwards) Emisora Gran Colombia 4910 kHz. Verie letter in Spanish with pennant and stamps in 1 month for English report and 1 IRC from Eduardo Cevallos Castaneda. (L. Robinson)

ECUADOR: Radio Centinela del Sur. 4895 kHz Verie letter and pennant in 42 days from Hernan Coronel V. (S.Greenyer) 4891 kHz verie letter and personal letter asking for some technical advice about their antenna on MW. Received in 4 weeks for Spanish report (D.Lynneberg) Radio Zaracay 3390 kHz Verie letter and pennant from Srta. Elssy Cun C. Secretaria (L. Robinson) verie letter and pennant in 3 weeks for Spanish rpt. Asked for some NZ money for her collection. (D.Lynneberg)

GUYANA: Action Radio 3290 kHz. EE form letter in 5 months from Diana Keeler for Chief Eng., for English report with 1 IRC. Sent registered. (P. Edwards)

INDONESIA: RRI Bandjarmasin 3250 kHz. QSL letter in EE from Chief Andi Njongki BA advising that my reception was during their 'special holy month transmission 1800-2000 GMT during the Puasa Ramadhan month' Also said 'your report of October 4, 1975 has been delivered to us although delayed for nearly a year' Received 16/9/76. (B. Clark. Good work. Ed.) RRI Kupang 3550 kHz. Indonesian verie letter with full details (power 10 Kw) received via air in in 21 days from Harry A. Silalahi. No Rp Also listed details of program heard in letter. (D.Lynneberg). NB: Rpt was sent in Indonesian.

PERU: Radio Qollasuyo. 3250 kHz. Verie letter received in 62 days for registered Spanish Report with mint Peru stamps. Verie signer: Rogelio Alatrasta R. Dir.-Gerente. (S.Greenyer) Radio Andina 4995 kHz 1 Kw Verie letter & pennant in 4 months from Teodosio Munoz Inga, Administrador General. Address: R. Andina, Calle Real 175-Chilca, TLF 3111 Huancayo. (L. Robinson) Radio Nac. del Peru 6082 kHz Postcard QSL in 7 weeks by air for Spanish rpt & 2 IRC's. verie signer: Rita Edna Almuadoz. (B. Vogel) Radio Union 6115 kHz QSL card showing Yellow Inca dragon, personal letter and pennant in 35 days for SS rpt from Fernando Gonzales del Campo, Director-Gerente (D.Lynneberg)

SIERRA LEONE: SLBS, Freetown 3316 kHz QSL Card showing coat of arms received in 5 1/2 monts from S.C. Matturi, Eng. in Charge for registered rpts over several days & 2 IRC's. (P. Edwards)

SOMALIA: Radio Mogadishu 7122 kHz. Black and white QSL Card with full details on reverse. Received in 2 months for EE rpt. (D.Lynneberg)

ANDORRA: Radio Andorra 6230 kHz. Colourful QSL Card showing man and woman in national dress looking over lake and antennas. Reverse side gives verie text and date and frequency. Roted in English with 1 IRC, and verie back in 4 weeks. (D.Lynneberg)

COLOMBIA: La Voz de la Selva, Florencia. 6170 kHz. Spanish letter received from Eduardo Bahamon Horta for Spanish rpt sent in March 1974. Also sent two Colombian banknotes. (C. Davis.)



Sorry the last two out of order. Well spave has run out so many good ones will have to be held over till next time. Tnx to Paul Edwards, Lindsay Robinson, Steven Greenyer, Bryan Clark, Chris Davis and from Aussie Bill Vogel and Murray Dalrymple. 73's Sec.-Ed. Dene Lynneberg.

SHORTWAVE IN AUSTRALIA, a brief history. 10

The development of shortwave broadcasting in Australia was carried out on entirely experimental lines until 1934. In March of that year the National Short-wave Station VK3LR Lyndhurst, Victoria went on the air as the first Australian commercial shortwave station.

The first record of overseas broadcasts from Australia goes back to 1925 when Ray Allsop, then Chief Engineer of medium wave station 2BL, broadcast the Sydney station's programmes to America through his experimental station 2YG. The first successful broadcast was carried out on a wavelength of 88 metres and the service was continued later on a 37 metre wavelength. In Melbourne, 3UZ also made sporadic attempts at overseas broadcasting and achieved a fair measure of success. In Perth, the Chief Engineer of 6WF, Mr W.E.Coxon operated a regular experimental shortwave service through his experimental station 6AG which operated on a wavelength of 100 metres and was regularly heard in the Eastern States of Australia. Another early broadcaster was Harry Kauper of 5BG Adelaide.

The first big station in the British Empire to take up regular shortwave broadcasts was 3LO which, in conjunction with the AWA transmitter VK3ME, began overseas broadcasting in November 1927. Prior to this however, 2FC Sydney, in conjunction with AWA transmitter VK2ME, conducted the first Empire broadcast on 5 September, 1927. This programme was picked up and relayed to over a million English listeners by the BBC. The second Empire broadcast conducted on 17 October 1927 was equally successful. On 31 October, the English experimenter Gerald Marcuse was able to pick up the Australian programmes and transmit them back to Sydney for rebroadcasting. Australia was the first British Dominion to operate a regular overseas broadcasting service, and the high power of VK2ME improved out of all sight the experimental results which had previously been obtained with the low powered Melbourne shortwave station.

BROADCASTING COMPANY OF AUSTRALIA PROPRIETARY LIMITED

AUTHORISED SELLING AGENTS:
BUCKLEY & MURPHY
BOURKE STREET MELBOURNE



CALL SIGN . . . 3LO
POWER . . . 5 KILOWATTS
WAVE LENGTH . . . 371 METRES

Postmaster General's Department,
Treasury Gardens,
MELBOURNE C.2.

20th January, 1932.

Dear Sir,

SUBJECT : Experimental Transmitting 5800 KC
Station VK3LR Frequency

I am obliged for your letter of 16/11/31
to ~~me~~ and confirm the correctness of
your observations on transmission from the above
station. Your interest is much appreciated.

Yours faithfully,

H.P. BROWN

Director General
of Postal Services.

The next move was the erection of experimental station VK3LR by the P.M.G.'s Department. This transmitter was operated from Lyndhurst, Victoria to study the possibilities of short-wave broadcasts to the outback areas where distance and local receiving conditions made it impracticable to provide an adequate service on medium wave. Lyndhurst first went on the air in 1932, but in 1934 was redesigned and with increased power was made into a regular National Shortwave Service.

QSLs received by the
late Mr A.J. Breen, now
held by NZRDXL Archives

INTRODUCTION

In March last year sixteen DXers - some with their wives - left New Zealand for a unique DX experience in Australia. In response to numerous requests and enquiries we are pleased to announce another DXCURSION to Australia - a longer, more adventurous tour, tailored from the experiences of 1975, and packed with events of DX interest and scenic fascination. We've almost doubled the length of the last tour, yet kept the price to the lowest possible. We have the 'Best of Three States,' cities, Duty Free Shopping, radio purchasing privileges, DXing in the Outback, the usual DXer hospitality, and the thrill of camping out in comfort in some of the most exciting parts of Australia.

DXCURSION is created by DXers for DXers, in conjunction with NAC World Travel, and Australian Accommodation and Tours (AAT) Ltd.

Applications to join DXCURSION '77 should be addressed:

DXCURSION
P.O. Box 3160
WELLINGTON

An application form is issued with this brochure.

DXCURSION AUSTRALIA

'77



DEPARTING 4 MAY

YOUR ITINERARY

WEDNESDAY 4 MAY 1977

We depart from Christchurch or Auckland direct to Melbourne where we will be met at the airport and transferred to the Commodore Motel for overnight. The evening is free to 'get your bearings' and meet some of the local DXers.

THURSDAY 5 MAY

Today we have a two hour tour of the city of Melbourne, and a visit to the studios of Radio Australia with host Keith Glover. Time to explore the radio shops - and perhaps pick up an inexpensive set for DXing on tour.

FRIDAY 6 MAY

Day excursion by rail to Shepparton and a comprehensive tour of the Radio Australia installation. Return to Melbourne in the late afternoon after a visit to one of the many famous Victorian wineries. "Send off" function as guests of the Melbourne members of the DX League.

SATURDAY 7 MAY

Today we start our tour into fascinating Central Australia as we join the fully equipped coach bound for Alice Springs. (Here we let AAT take up the story.....)

MELBOURNE — MILDURA

1 DAY An early morning departure as you head north-west passing through the historic gold city of Ballarat and join the Sunraysia Highway passing through St Arnaud, Donald, Birchip and Ouyen before arriving in Mildura, the centre of one of the most prosperous irrigation areas in the Commonwealth.

MILDURA — ADELAIDE

2 DAY A short tour of the orchards, locks and city sights of Mildura is included before joining the Sturt Highway heading south through Renmark and Tanunda, the oldest of the Barossa settlements, before arriving in Adelaide in the late afternoon.



ADELAIDE — PORT AUGUSTA

3 DAY Adelaide and Perth passengers join the tour this day and all together you head north for Port Augusta on Highway 1. An afternoon inspection of the large power plant which is fuelled by coal from Leigh Creek mines and which supplies about 70% of the electricity needs of the State is included before heading for overnight camp site at Port Augusta.

PORT AUGUSTA — COOPER PEDY

4 DAY Depart the town which is the meeting place for road and rail traffic to the north, south and west as you travel north on the Stuart Highway passing by the Woomera Rocket Range before arriving in Cooper Pedy, the famous opal mining centre, for overnight camp. In the evening a demonstration of opal cutting and polishing can be seen.

COOPER PEDY — VICTORY DOWNS

5 DAY Try your hand at fossicking for opal in the waste from the hundreds of shafts in the early morning and either 'richer' or 'poorer' depart Cooper Pedy and continue north on the Stuart Highway. An opportunity to see the 'sunburnt country' as described in the odes of Dorothea MacKellar before crossing the border into the Northern Territory and on to your overnight camp at the station of Victory Downs.

VICTORY DOWNS — AYERS ROCK

6 DAY No tour to the Centre is complete without a visit to 'The Rock', discovered in 1873 and named after the then Premier of South Australia. A stop is made en route at Mulga Park Station where you may purchase Aboriginal artifacts should you so desire. As you continue northwards you will travel through some of Australia's most arid, yet compelling country. Pass Mount Conner and Curtin Springs Station with arrival at Ayers Rock in time to see the sunset with its fascinating kaleidoscope of colours.

AYERS ROCK

7 DAY An early morning start at dawn will allow you to admire the first rays of the sun as they strike the rock afresh and set it aglow with a fiery light. The base of Ayers Rock is cut with deep ravines and caverns where the Aborigines have held their rituals and covered the walls with sacred cave paintings and a full sightseeing tour of these fascinating sectors is included in the morning. If you are energetic you can climb to the Rock's 350-metre summit from which you can see all round you forever. A short drive in the afternoon will take you to the Olgas where you will have the opportunity to wander around this rambling chain of polished domes and study the unusual conglomerate formation.

AYERS ROCK — ALICE SPRINGS

8 DAY As you head north-east towards Alice Springs, you will drive through the true 'Red Centre' where the dry earth is decorated surprisingly with bright yellow and green paddy melons and tufted mulga grass. Pass via Mt Ebenezer, Ertlunda and crossing the Finke River before arriving in Alice Springs, the town made famous by Neville Shute's novel, 'A Town Like Alice'. The remainder of the day is at your leisure to wander around the tourist capital of Central Australia.

ALICE SPRINGS

9 DAY Today takes you west of Alice Springs to visit Simpson's Gap once the scene of an Aboriginal tribal massacre and which some Aborigines still fear is haunted. Continue on to Standley Chasm with its 77-metre high red walls and only 5 metres apart which change colour when the midday sun shines down from above. The Chasm is named after Mrs Ida Standley who was an early school teacher at Alice Springs.

ALICE SPRINGS

DAY

10

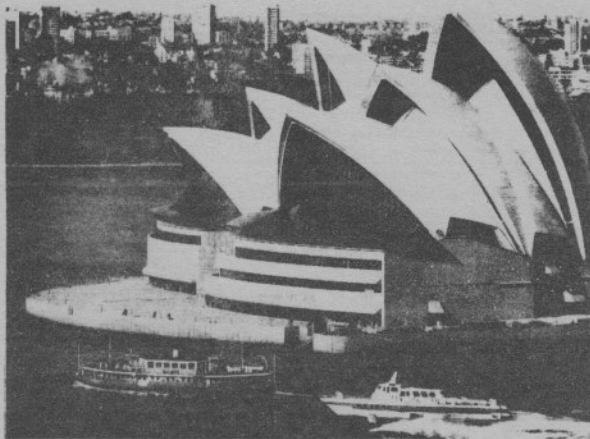
In the morning a sight-seeing tour of 'The Town of Alice' including the John Flynn (founder of the Flying Doctor Service) Memorial Church, the Flying Doctor Base and the Pitchi Richi native bird and plant sanctuary. In the afternoon a short drive will take you to the Old Telegraph Station which has been restored to preserve the links with the past. On the drive back to Alice Springs enjoy the panoramic view of the town and the MacDonnell Ranges from Anzac Hill.

ALICE SPRINGS — SYDNEY

DAY

11

Regrettably it is time to head homewards and you will be transferred to Alice Springs Airport for your TAA T-Jet flight to your Home City.



WEDNESDAY 18 MAY

A day to relax in Sydney. Optional cruise on the fascinating Harbour - perhaps a tour of the Opera House or some last minute shopping. Lunch perhaps in the 'Rocks' area at the Old Spaghetti Factory - a "feeding hole" on the last DXCURSION.

THURSDAY 19 MAY

Reluctantly we pack for home and depart from Sydney Airport for either Auckland, Wellington or Christchurch. Our departure time should allow us a few hours for shopping in Sydney today



THE DXPERIENCE

As was the case on the last DXCURSION the itinerary will be embellished considerably over the next few months with visits to radio stations in Alice Springs, Mildura and probably Port Augusta and Adelaide. Indeed some of the fascination of the last tour was the comparison between city and rural stations. We will be incorporating special events that are being held in the centres we visit at the time, so that we get the most out of the tour. AAT are happy to meet our DXpedition needs - indeed we will have the opportunity of DXing in the 'Red Centre' when we set up camp.

This Camping Business: This tour has cut back on the luxury accommodation of last year so that your dollars are spent on doing and seeing more. AAT and a number of other companies specialise in camping tours - and yours is one of the best!

Accommodation in Sydney and Melbourne is of course in high quality motels or hotels.

CAMPING, COACHES, & COOKS

Travelling on a camping tour can be a comfortable and enjoyable experience with the new caravan and camping parks which are beginning to appear throughout Australia. At AAT we have chosen what we believe are the best camp sites for coach tours covering both the outback and the cities. Most camp sites are located within two or three miles of the centre of the city. The majority have good laundry facilities, combined with excellent showers and toilet blocks. On some nights it is necessary, due to the itinerary, to be accommodated in a bush camp. This allows you to have the opportunity to capture the pioneer spirit by camping out under the stars. In the Australian outback a big feature of any camping tour is the camaraderie experienced by a

group gathered together around a camp fire talking, singing and generally exchanging experiences.

The camping equipment which AAT provides to allow full enjoyment of your holiday consists of two-man tents, stretchers, dry mattresses, sleeping bags, cooking and eating utensils. The tents have built-in vinyl floors and are made of strong durable canvas. The stretchers and sleeping bags, combined with the tents mentioned above, make for good relaxing camping.

The cooking is all carried out by the camp cook and is prepared on Porta-gas barbecues. The meals will consist of a cooked breakfast, a picnic-style lunch and a three-course evening meal.

AAT'S COACHES

On a tour of discovery, such as the camping safaris featured in this folder, the type of vehicle used is extremely important, for not only should this vehicle be reliable for journeys along the Midland, Sunraysia and Stuart Highways and the famous Birdsville and Tanami Tracks, but also should have the comforts to enable travelling through these vast areas to be enjoyable and rewarding. AAT utilise only top coaches for the camping safaris, such as luxury G. M. Denning and Albion motor coaches which are fitted with reclining seats, are jet or fully air-conditioned, have panoramic windows for viewing, but also have curtains or blinds to keep out the hot afternoon sun. All coaches are fitted with tape decks and public-address systems. In addition, the coaches have sturdy frames, powerful engines, hydraulic brakes and a host of technically superior features that all contribute to your comfort and safety.

AAT'S COOKS

A very important feature of any tour is the food that you eat, and with this in mind we have secured cooks who will prepare homely meals over the barbecue. AAT's cooks will not be the latest Cordon Bleu chefs, but much more likely will be a young Australian who will take care of all your eating needs.

THE COST

\$880 - N.Z. back to N.Z.

(This represents real value. The 1975 tour on today's prices would have been \$570 - and on this one we've added eight more days. The cost of the tour may fluctuate slightly, and negotiations are under way to even reduce this sum. Tour size minimum at this price is 15, if more enrol - down goes the price !)

INCLUDES

Economy class air travel to Australia and return
Air travel by TAA
Transfers throughout
Accommodation in Sydney and Melbourne on a twin basis
the 11 day all inclusive - all meals - AAT tour
Day return rail travel to Shepparton
Winery visit
On tour: jet air conditioned coach; services of cook; entrance fees where applicable; provision of camping equipment - sleeping bags, mattresses and tents
Cabin Bag
Travel tax

Details and prices in this brochure are subject to alteration and where possible these will be advised when appropriate.

TOUR COORDINATION

This tour will again be coordinated by Tony King - a DXer for 22 years and Sales Superintendent with NAC in Wellington. A team of coordinators has been established in Australia so that our tour will be full of interest and never-to-be forgotten experiences. The tour will be at a pace to suit you - with plenty of time for you to do your own 'thing'. Join us in May '77 - you may never get such a wonderful opportunity again !

During the late thirties VK2ME increased to 20 kilowatts and became known as the Voice of Australia. Once a week it broadcast 4 separate programmes for Europe, North America, the Pacific and Asia. Announcements were made in a

VK2ME "THE VOICE OF AUSTRALIA"



The laughing notes of the Kookaburra open and close the AWA World-wide Broadcasting Service.

AMALGAMATED WIRELESS (ASIA) LTD.
AUSTRALIA'S NATIONAL WIRELESS ORGANISATION



Power - 20 Kilowatts
Wave Length - 30.75 m
30.75 m
9760 Kcs.

A. W. A.

Owens and Operates

Beam Wireless Services to Great Britain, The Continent of Europe and North and South America.

Wireless Telephone Services to Great Britain, The Continent of Europe, North and South America, Java and New Zealand.

Coastal Radio Stations in Australia, Papua, New Guinea and Fiji.

Wireless Services on ships of the Australian Mercantile Marine.

Radio-Electric Works for the manufacture of every type of transmitting equipment and Radiola broadcast receivers.

Research and experimental laboratories.

World-Wide Broadcasting Service

number of foreign languages in addition to the English programming. The Melbourne station VK3ME was on the air nightly except Sundays, and although using a much lower power than VK2ME, it still achieved world wide reception. In 1937, a comparatively low powered station VK6ME Perth went into service with broadcasts nightly except Sundays.

"Australia Calling" began in December 1939, using 2 low powered transmitters

Office's 2 kilowatt

VLQ and VLQ2, belonging to AWA near Sydney, and the Post stations near Lyndhurst. VLR was added in April 1940 and VLW Perth began broadcasting to South Africa. A new 10kw transmitter VLG was added to the Post Office establishment at Lyndhurst in June 1941.

The risk to the BEC's transmitters from German bombing led the British and Australian Governments to decide that an alternative high powered shortwave station in Australia was vital. The outbreak of war in the Pacific lent urgency to the project.

A site at Shepparton Victoria, consisting of 600 acres of grass-land, was chosen for the new transmitters. The flat country surrounding the site, especially to the north, was ideal for radio transmission. The first transmitter at Shepparton, VIC a 50kw unit built by RCA, came into operation in 1942. By 1946, 2 further transmitters VLA and VLB, each of 100kw, were operating.

With the end of the war, the name "Radio Australia" was introduced, replacing "Australia Calling", the change taking place in November 1945. This was the beginning of Radio Australia as we know it today.

The Shepparton transmitting location has since been extended, and there are now 7 high frequency transmitters - 4 of 100kw and 3 of 50kw. At Lyndhurst, 3 10kw outlets are still used for shortwave broadcasts. In 1969, 3 transmitters of 250kw were established on the northern-most tip of Australia, at Cox Peninsula near Darwin, but this installation was wrecked by the disastrous Cyclone Tracy on Christmas Day 1974. By December 1975 a replacement installation at Carnarvon, Western Australia had been commissioned. This site has

AUSTRALIAN BROADCASTING COMMISSION

VLR

23/2/40.

Dear Sir,
~~Madam~~

We have received your reception report on the programme of our National Short Wave Station VLR...3 on 10th January, 1940. and have pleasure in advising you that the particulars submitted have been checked with our log and verified.

Yours faithfully,

AUSTRALIAN BROADCASTING COMMISSION

Man J. Lee
SHORT WAVE SECTION

.....

..company Broadcast Services & Products Ltd will be followed up.

A Wellington Branch remit was approved as follows: The NZ Radio DX League applauds the action of Government in reactivating the Overseas Service of Radio New Zealand, and asks the Government to undertake implementation of a specialised international broadcasting operation, with suitably orientated programming and upgraded technical facilities, as soon as improved economic conditions allow.

Austin Hadler delivered a stimulating report prepared by David Ricquish, on progress for Convention 77 in Christchurch. Southland's application for the 1978 Convention was approved.

Contact is to be made with the Duke of Edinburgh Award scheme, with a view to the League providing support for the scheme's Shortwave Listening section.

The League President concluded the meeting by reminding members that, with sunspots reportedly at their lowest since the 18th century, we should take advantage of the favourable conditions on the lower bands to renew and increase our DX activity. Later an audio-visual presentation promoting DXcursion 1977 was given by Tony King, and a selection of DX archives items displayed. Our thanks to North Otago for once again hosting a most successful gathering.

AUSTRALIA ON SHORTWAVE (Conclusion)

a 250kw and 100kw transmitter in operation.

The story of Australian shortwave broadcasting would not be complete without mention of the transmissions from the ships 'Kanimbla' and 'Awatea'. At the time, 'Kanimbla' was the only ship in the world to possess a broadcasting license. The ship had a complete broadcasting studio and transmitted both recorded and live programmes. During it's travels around the Australian coast, the Kanimbla's transmitter VK9MI was well heard in the South Pacific. A somewhat different state of affairs existed with the trans-Tasman liner 'Awatea'. It's regular ships transmitter was occasionally used for experimental broadcasts and were regularly intercepted by the increasing number of shortwave listeners on the pre-war years.



BARRY WILLIAMS

DXERS CALLING FROM RADIO AUSTRALIA

RA's ever popular DX programme celebrated it's 30th anniversary during July, and to mark the occasion, special QSL cards were offered by both RA and the Australian Radio DX Club.

In the September ADXN, Robert Hanner presented his analysis of the programme detail and layout of the correct reports received. Of the 236 reports which qualified for the special QSLs, only 20 came from NZ! (compared with 87 from Australia, 41 from the USA and 23 from India.)



NZ reports rated 88.8% for programme detail (compared with the worldwide figure of 82.3%). Layout of NZ reports was measured at 85% compared with 91.4% worldwide. Our overall percentage analysis of 87.2% was just above the world-wide tally of 86.2%.

22% of the reports contained insufficient or no details.(Presumably these were not verified.Ed)

Shortwave Mailbag with Tony Marr 13

Conditions seem to be improving rapidly on the higher frequencies at the moment, so it's worth keeping an eye on the higher bands, especially 17 and 21mhz, which has had some very good evening signals from Europe lately. Deutsche Welle are now using the new Antigua relay, and currently have a superb signal at sign on at 0400 GMT on 9545khz, so this is an easy logging for those of us still needing an Antigua QSL. Now, to this month's mail ;

CECIL SYMMES Wellington is first up this month with QSLs from BBC 9410 RNE 11880 Mt Hagen 2450 DW 11905 IBA 9455 Finland 11755 VOA Phil 15155 RA DX Club 9500 IBRA Sines 9670 plus a pennant. Yes, your idea indeed a good one.

STUART FORSYTH Auckland summarises his QSLs to date as P2K3 3925 FEBC 11890 AWR 9670 Lisbon 11935 RN Bon 11730 RCI 5970 RNZ 15110 HCJB 9745 RA 6055 9700 5995 15160 15240 9535 9540 9570 9580 11765 11840 11850 15240 15320 and there's one out to RA also. Thanks.

RAY BABBAGE Wellington has 15 logs resulting from DXpeditions to Onope and Tatum Park, and has a couple in from RA. Keep up the good work.

STEVEN GREENYER Invercargill has QSLed Finland 11755 Tanafo 3990 Timbira 4975 Brasil Central 4985 Nac Brasil 11780 Em Bolivia 4760 Santa Fe 4965. Nice Latins.

HARRY WEATHERLEY Mt Waverley tells of QSLs from HCVGB 4810 plus pennant RNE 6100 Brunei 7215 Vatican 9625 9645 FEBE 15185. Very nice about the new FRG7.

JOHN DURHAM Meremere has 3 back this month from AFRTS Poro 11840 TWR Bon 11925 Gabon 4777.

ARTHUR CUSHEN Invercargill has them in from RNE 9580 RBI 11970 Milne Bay 3360 RN Bon 9630 RNE 9530 VOA Mon 3990 Athens 6140 9760 RRI Kupang 3550. Thanks.

WYN MACHON Invercargill has QSLed DW 21560 3995 RIAS 6005 Sweden 11955 HJDE 5040 Brunei 7215 YVPA 4940.

RAY CRAWFORD Invercargill has heard from NHK 15195 TRT 11880 Zaracay 3390 Maldives 4740 Bolivia 4755 plus pennant Ecos del Attrato 5020 Timbira 4975, and there are 2 out. Nice Latins.

MASAMI ONIZAWA Japan tells us that he has QSLs in from VOA Phil 15290 Paris 15315 Noumea 11710 Veritas 15280 Kiev 15210 AWR 9670 RNE 9580 with pennant Chad 4904.5. You're doing very nicely.

BRENT ALLRED Motueka has them in from RA 15160 15240 15355 HCJB 6075 6130 9745 Lisbon 11935 Veritas 15280 IBRA 9670 plus pennant Vatican 9645 P2K3 3925 UN Radio 17750. I don't seem to have much spare time either...!

BILL VOGEL Adelaide has 5 out and has QSLed Brunei 7215 RNE 9600 6075 NHK 5990 DW Malta 11865. Thanks.

ROSS GIBSON has a good bunch with ORF 11745 Tirana 11985 Malaysia 15290 ORF 6015 Praha 5930 Mauritania 4850 ORU 9725 Oman 11890 RSA 3995.

RON JAMES Wellington has a long list Congo 4765 Gabon 4777 Menado 5990 TWR Monaco 6215 BBC Tebrau 9725 Lagos 15120 Veritas 15280 KGEI 15280 Cuba 11725 RFE Lisbon 9725 Praha 9605 9630 AIR 11725 15285 VOA Dixon 6010 11920 Tinang 11760 6110 Kavala 9770 RA 7240 9560 11925 15190 15415 11725 11780 11820 15355 DW Kigali 21540 15410 DW Malta 11865 Julich 6185 Wert 9765 17800. You've been busy, too. Thanks for the nice neat layout.

IAN CATERMOLE Blenheim has QSLs from Peking 15060 RNE 11775 11945 9360 Iran 9022 Budapest 9833 Brunei 7215 Chimbu 2376 Sth Highlands 3275 NHK 5990 Oslo 11850 AFRTS 6030 YVPA 4940. Ta.

LINDSAY ROBINSON Invercargill has 6 away and QSLs back from Centauros 6190 DW 3995.

GORDON HUTCHISON Kaiapoi has sent 40 off and has heard from DW Malta 11865 NHK 15310 Peking 11445 with badge VLQ9 9660 RNZ 6105. Lots more next month, I should imagine.

BRYAN CLARK Wellington has 7 out, and QSLs in from Cook Is 3265 Gabon 4830 Finland 15265.

CONVENTION

Don't forget Convention '77 in Christchurch, next Easter. It'll be a great show, we can guarantee it!

DENE LYNNBERG Wellington has 10 out, and has QSLed ETLF 6015 Milne Bay 6040 Austrian Army 6221 Oman 6174 SABC 3220 Andorra 6230 Athens 6140 Mogadishu 7122 Union 6115 RNE 9580 RRI Kupang 3550. Ta.

PAUL ORMANDY has logged 80 ! ; and has QSLed ORF 17840 9650 17810 RBI 11840 6010 DW 6065 9765 WYFR 15440 P&P via Sofia 9745 Peking 17680 RNE 9520 Ghana 3366 FEBA 15185 RA 9730 Galei Zahal 2442 KGEI 15355 Centinela del Sur 4891. You will have your own page next month!

BRUCE CAVANAGH Invercargill has 12 out, and QSLs from DW Kigali 9735 Sweden 15120 Ghana 4915 VLM4 4920 Athens 6175 DW Malta 7275 11765.

PAUL EDWARDS Wellington hasn't sent any away, but has them back from Ecos del Combeima 4876 Oman 11890 Mozambique 9620 Lagos 4990 CE613 6130 Centinela del Sur 4891 Mongolia 7262. Very nice.

AUSTIN HADLER Christchurch has 13 out, and success with RSA 4875 Oman 11890 Moscow 6010 7390 Oslo 15135 15345 ORF 15280 15435 DW 9765 11905 15150.

JACK SEARLE Haumoana has 19 out, and QSLs from Moscow 9700 NHK 9605 WYFR 6155 RA 15410 Paris 9585 plus pennant RBI 9665 9500 VOA Dixon 17780 ZYY2 4985 OAX4Z 6082. Yes, I'd count it, it's an achievement just to get a reply.

JOHN MAINLAND Wellington has them in from RNE 6100 Budapest 15415 Iran 11770.

ANDREW WHITE Christchurch reports QSLs from RNE 6065 plus pennant. A loner, maybe more next time.

IAN HITCHINER Waiouru has 14 out and 5 in from NHK, ORF, Lisbon, Brasil and Oslo. Please give the frequencies of your veries, Ian. Thanks.

PAUL RAWDON Lower Hutt has 4 out, with veries from DW 11905, Gwelo 3396 and RA 9580. Congrats on B-O-Y!

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BEST OF THE MONTH

UNDER 9MHZ

Galei Zahal 2442khz 1kw 134 points
Paul Ormandy

OVER 9MHZ

FEBA 15185khz 25kw 105 points
Paul Ormandy

PENNANTS POST.

RADIO AUSTRALIA has a green paper pennant 25cm long, featuring a kangaroo with microphone and the words Radio Australia printed in yellow. PO

RADIO PEKING now issues a new red cloth pennant, 28cm in length, with Radio Peking and some chinese characters in yellow. BA PO

IBRA RADIO(Sweden) sent a blue pennant printed on stiff paper, depicting an antenna coming out of Portugal in a globe of the world. Received for EE report. BA

KGEI has a paper pennant with a brown drawing of San Francisco and the station 'friendship' symbol on yellow background. PO

RADIO SOFIA's pennant is blue, on very stiff material, with 'Radio Sofia, Bulgaria' and the station emblem, in white. Received in 7½ months for an EE report sent with NZ souvenirs. BA

RADIO SANTA FE (4965kHz) sent a green rimmed cloth pennant, featuring details of transmitters and a microphone, with 'lightning' at the base. 20cm long. PO

Received any new pennants from SW stations lately? Let's have the details!

TOPICALITIES

UN RADIO's EE schedule to East Asia & Pacific: 0230-0245 via Philippines on 17750, 15155. 0845-0900 via Dixon 9650, 5955, 1000-1005 via Philippines on 11930.

RADIO VERITAS has EE 0100-0200 on 77725 and 75280, 1400-1500 on 9610 and 15270kHz.
Brent Allred

SHORTWAVE BANDWATCH

with John Mainland



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Top news this month is commencement of transmissions from Antigua by Deutsche Welle. Other highlights: Ray Babbage and Dene Lynneberg have heard "Malta Calling" on a new frequency; John Durham reports first reception of Bhutan in this part of the world; Ian Hitchiner and our regular Japanese contributor Masami Onizawa have heard the Argentine National Radio on their seldom reported 11MHz channel. Reception on the higher frequencies is showing a gradual improvement.

ALL FREQUENCIES IN KILOHERTZ

TIMES ARE GMT (Add 13hrs for NZDT)

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITS
3200	1830	CHINA	FLA Fuzhou	with music prgm & anncts in CC, poor.	CS
3245+	2255	VENEZUELA	YVKT Radio Libertador	poor with L.A.mx, SS anncts.	RY
3250+	2030	SOUTH AFRICA	Springbok	poor with news.	MD
3275+	2010	SWAZILAND	TWR Manzini	poor with religious prgms.	MD
3285	1745		UNIDENTIFIED	FF speaking station heard several times. Who?	BC
3286	1128	PHILIPPINES	DUB4 Manila	fair with EE prgms. Announcing also 6170 good, 9615 inaudible.	JD
3325	0440	ECUADOR	Ondas Quevedenas	good with lots of commercials.	RC
3330	0500	PERU	Ondas del Huallaga	good signal in SS when 90 metres opened up on 23/10.	RC
3360+	2252	GUATEMALA	TGVN La Voz de Nahuala	with talk in SS, poor.	RY
3390	0430	ECUADOR	Radio Zaracay	very good signal in SS.	RC
3915+	1500	MALAYSIA	BEC Tebrau	relay fair with news. MD (Note location. Ed)	
3925	0702	PAPUA NEW GUINEA	P2K3 Port Moresby	with Pidgin nx, vg. BA 0900. IH	
3955	0553	POLAND	Warsaw	now quite regular in GG till 0555. Polish 0600. BC	
3975+	2231	GREAT BRITAIN	BBC	with news, poor due ham QRM.	RY
3995	2045	SOUTH AFRICA	Johannesburg	with Portuguese, fair signal.	RG
4720+	1037	BOLIVIA	(tentative) CP177	Radio Riberalta poor in SS. No ident.	RY
4762	0550	PERU	Radio Inca	Lima with fair signal.	AC
4770+	0118	VENEZUELA	Radio Bolivar YVNW	fair in SS with talks, advts.	RY
4785+	1908	TANZANIA	Radio Tanzania	poor in vernacs with id, nx, local mx.	BV
4795	0410	ECUADOR	La Voz de los Caras	to 0520 s/off Sunday. Fair in SS. Only ident noted at s/off.	DL
4810	1212	GALAPAGOS	HCVG8	s/on poor in SS, noisy reception.	BCa
4820+	2036	ANGOLA	Radio Nacional	fair in PP with anncts, idents, mx.	BV
4830.7	0415	ECUADOR	Emisora Luz y Vida	with usual prgm. Plenty of ids.	DL
4832	0630	COSTA RICA	Radio Reloj de Costa Rica	, TIHB good level in SS.	DF
4845+	2143	BOTSWANA	Radio Botswana	fair with local mx prgm.	RY
4850	1838	MAURITANIA	Nouakchott	good signal in AA to f/out 1940.	JS
4860	1143	PERU	OBZ4Z Chincaycocha	with SS music, good signal.	RG
4870	0550	BENIN	Cotonou	vg over 3 nights. FF 0600. JS. 0600 Sun s/on, vg.	BC
4880	1804	INDIA	AIR with EE nx	, closing 1806. Lucknow location?	CC
4882+	2226	DOMINICAN REP	HIJP Radio Comercial	, SS news, vg signal.	RY
4912	0533	ECUADOR	Emis Gran Colombia	vg with sport // Quito 4923.	PO
4920	0415	ECUADOR	Radio Quito	with nx at this time. Best ever heard. Good over VLM4 on 17/10. S/off with 'Indian Love Call'.	JD
4940+	2135	IVORY COAST	RTI Abidjan	fair with jazz mx prgm.	RY
4940+	0958	VENEZUELA	Radio Yaracuy	ids, Latin mx, fair till 1020.	BV
4945	0700	COLOMBIA	HJDH Radio Colosal	very good signal in SS.	DP
4965	0700	COLOMBIA	HJAE Radio Santa Fe	vg. DP. 1030 fair in SS, mx, ids.	RY+
4970	0506	VENEZUELA	Radio Rumbos	s/off with full ident in SS, fair.	JS
4985	0715	BRAZIL	Radio Brasil Central	with fair signals.	DP
5020	0529	NIGER	Niamey	with anthem, idents, time checks, music.	FO
5020	0730	SOLOMON ISLANDS	VQ05 Honiara	with EE mx. Pidgin nx 0745, good.	TH
5038+	2052	CENTRAL AFRICAN REP.	Bangui	fair with ident & music.	MO
5045	0658	COOK ISLANDS	Rarotonga	concluding RNZ relay, then carried UN Radio in FF, PP. Radio Aust relay from 0800. Good.	FR

<u>FREQ</u>	<u>TIME</u>	<u>COUNTRY</u>	<u>STATION</u>	<u>PROGRAMME & RECEPTION DETAILS</u>	<u>INITIALS</u>
5955	0845	USA	UN Radio, Dixon	with EE nx about United Nations to A/NZ, gd. Rck	
5960	0530	ANTIGUA	Deutsche Welle	with local transmitter ident at 0529, then EE to Nth America. Fair 2/11 to s/off 0550.	JM
5965	0410	SWITZERLAND	SBC	fair in SS until s/off 0415.	BCa
5975	0545	GREAT BRITAIN	BBC World Service	in EE with nx, good. CC. Also 1800. 0655 pops, good. GH. 0710 News in EE, good.	IH
5980	0700	USA	KGEI	fair with EE nx. GH. IH. 0800 EE id, then 1hr of JJ.	Rck
6000	0455	AUSTRIA	ORF Aldrans Home Service	relay fair s/on 0500 Suns.	BC
6010	0710	ITALY	RAI Rome	s/on weak, due QRM from Australia.	GH
6015	0729	USA	VOA Greenville	s/on in Arabic, very good.	BCa
6015	0450	AUSTRIA	ORF Vienna	poor in EE. Severe QRM. GG at 0500.	GH
6015	1900	NORWAY	Oslo	opening to Europe under USSR & VOA Rhodes.	BC
6020+	1917	HOLLAND	RN Lopik	to Europe with Hit Parade in EE, fair.	BV
6025	1815	PORTUGAL	Lisbon	in EE to Europe to 1830 //9740. New time ex 2030-2100. JM. 1822 EE cmtry to Europe. CC. 0500 EE Nx, QRM.	GH
6030	0730	USA	AFRTS Bethany	fair with EE news.	GH
6035	0515	LIBERIA	VOA Monrovia	fair with EE documentary, severe QRM.	GH
6040	0438	EAST GERMANY	RBI	in SS to America. Very good. QRM VOA.	BA
6045	0430	SWITZERLAND	SBC	s/on to North America, fair.	GH
6055	0600	CZECHOSLOVAKIA	Prague	vg s/on in FF. PO. 0630 multi-lingual 'Inter Programme' opens. EE ident 0635.	BL
6080	2045	MALTA	"Malta Calling"	with Tourist prgm in EE, fair. New freq. RB DL	
6090	0850	AUSTRALIA	VLI6 Sydney	strong, EE pops. Rck. 1933 EE wx, mx, poor.	IH
6095	0200	ECUADOR	HCJB	vg in EE. Also logged 9760 in EE 0730.	PO
6095	0815	USA	AFRTS via Dixon,	good to the Pacific.	Rck
6100+	2104	YUGOSLAVIA	Belgrade	poor in EE. QRM USSR, Deutsche Welle co-ch. BV	
6105	0600	NZ	Radio NZ	good with nx. MD+ 0725 RNZ Shortwave Svce strong. CC	
6115+	2005	WEST GERMANY	Radio Free Europe	in Rumanian, fair.	BV
6120	0346	SPAIN	RNE Madrid	good in EE, new freq. Also 11775 in SS 0210.	PO
6130	0630	ECUADOR	HCJB	s/on in Finnish vg. GH. 0640 FF. EE 0715. Rck. 0700.	IH
6140	2104	GREECE	Athens	very poor in EE & GG (Greek?)	JS
6150+	2028	CZECHOSLOVAKIA	Prague	new freq in SS. QRM from USSR 2030.	BV
6155	0600	AUSTRIA	ORF Vienna	with interval signal and anncts.	GH
6165	0514	NETH. ANTILLES	Radio Nederland Bonaire	with nx, cmt in EE, fair.	CS
6170	0930	PHILIPPINES	DUH2 Manila	weak in EE with music prgm.	GH
6175	0628	ANTIGUA	BBC World Service	Relay vg. PO. 6195 in EE 1100 good.	BCa
6185	0407	ECUADOR	HCJB	quite good in Rumanian. Russian at 0430.	BCa
6195	1815	MALAYSIA	BBC WS	relay from Tebrau with Radio Newsreel.	CC
6221	1855	AUSTRIA	Austrian Army Radio	s/off 1900 with bugle call.	AC
6340	0528	TURKEY	Turkiye Polis Radyosu,	Ankara weak but loggable 24/10. Mainly Turkish mx prgm. Occasional anncts.	JD
6383	1220	MONGOLIA	Ulan Bator	fair with s/on, EE nx. JD. EE nx, bad QRM.	RG
7040	1230	BRUTAN NYAB	Thimphu	s/on with mainly local type mx prgm. Weak with much telegraphy interference. (Sked Wednesday only). JD	
7105	1900	WEST GERMANY	DW	s/on in AA. Fair under strong RNE Madrid.	GH
7110	1729	SRI LANKA	VOA Colombo	exc in EE with Forum prgm.	BA
7120	1830	GREAT BRITAIN	BBC London	with popular mx, fair in EE.	GH
7130	0557	FRANCE	RFI Paris	vg. Also logged 15155 at 0714, 15315 at 0730.	FO
7130	2110	WEST GERMANY	DW	fair in EE with cmtry till 2200.	GH
7150	0510	WEST GERMANY	DW African Service	fair in EE. FF from 0515.	GH
7170	0937	NEW CALEDONIA	Noumea	with DJ prgm in FF, good.	CS
7210	2115	GREAT BRITAIN	BBC European Service	in EE, then Polish.	IH
7210	0726	HOLLAND	RN Lopik	int. sig, Dutch 0730-0750, fair 20/10 only.	CC
7215+	1330	BRUNEI	Radio Brunei	poor with news broadcast.	MD
7245	1920	CZECHOSLOVAKIA	Prague	vg in EE. 1930 FF. Also at 0330 //7345.	GH
7275	0440	ITALY	RAI Rome	in EE, vg. GH. 0554 closing RR prgm.	CC
7285	0600	WEST GERMANY	DW Julich	with GG to Aust/NZ, good.	Rck
7290	0750	AUSTRALIA	RA Melbourne	in EE to Asia, news fair-good at 1000.	CC
7395	0507	ISRAEL	IBA Tel Aviv	with EE news & weather. IH 9009 EE 2027.	IH
7460	0419	ISRAEL	IBA Home Service	fair-good in Hebrew, noisy.	BCa

<u>FREQ</u>	<u>TIME</u>	<u>COUNTRY</u>	<u>STATION</u>	<u>PROGRAMME & RECEPTION DETAILS</u>	<u>INITS</u>
9410	1900	GREAT BRITAIN	BBC	World Service excellent in EE.	GH
9420	2000	NORTH KOREA	Pyongyang	in EE, weak. QRM from Israel.	GH
9435	2015	ISRAEL	IBA Tel Aviv	exc with EE nx. GH. 2000 with //9009 good.	JS
9505+	0631	PERU	Nhko Radio America	fair in SS with music prgm.	MO
9505	0900	JAPAN	NHK Tokyo	General Overseas Service in EE/JJ.	ROk
9505	2030	SPAIN	RTVE Madrid	EE to Europe till 2230, fair. 6100 & 9580 apparently deleted. JM. 2032 Nx & EE prgm till 2230.	IH
9515+	2245	TURKEY	Voice of Turkey	good signal with prgm notes.	RY
9520	2258	SPAIN	Radio Nacional Espana	int. sig, ident, SS to America, poor.	CS
9525	2015	INDIA	All India Radio	G.O.S in EE, good signal.	CS
9525	1000	SOUTH KOREA	Seoul	with EE news, very good. LM. 0830 in FF.	AC
9530	0820	SPAIN	RTVE	very strong in SS. JS. NHK poor in JJ under, 0900.	JS
9535	1550	SWITZERLAND	Berne	in EE to Africa. GG at 1600. Fair/good.	CS
9540	2028	PORTUGAL	IBRA Radio	GG till 2030 then Polish. EE 2045 vg.	BA
9545	0400	ANTIGUA	Deutsche Welle Caribbean	Relay very good with local anct in EE, then GG prgm, 1/11(First day sked) BP. S/off 0520 in GG for North America.	JM
9555	1823	HUNGARY	Budapest	int. sig, ident 1900, unid lang, poor.	CS
9560	0400	FRANCE	Paris	in FF for Africa. Fair //9535.	JM
9565	0131	WEST GERMANY	DW	in EE to Nth. Am, fair to 0150. JS. 0137 EE fair.	BL
9565	0100	CHILE	Voz de Chile	fair with FF programme.	JM
9570	2257	SWITZERLAND	SBC Berne	very good with Portuguese prgm.	PO
9585	0400	HUNGARY	Budapest	fair in EE with DX prgm. S/off 0415.	ECa
9590	0700	SWITZERLAND	SBC	good with nx, MD+ 0725 Current Topics in EE.	IH
9590	1720	WEST GERMANY	DW	EE news. QRM USSR on USB. JH. 1731 EE to Asia.	JS
9595+	0048	BRAZIL	Radio Cultural de Bahia	with sport, fair. Other 31m ZY's Aparecida 9635 & Bandierantes 9645 hrd around this time.	RY
9605	0913	JAPAN	NHK Radio	Japan good in JJ to Sth America //9530.	JS
9610+	0300	USSR	Radio Kiev	nx good. MD. (Please indicate languages. Ed)	
9615	1400	GREECE	Athens	in Greek to Arabia. AA at 1415, good //9760, 7215. JM	
9615	0605	WEST GERMANY	DW	African Svce in EE, good. CS 0625 Good in EE.	IH
9620	0300	ECUADOR	HCJB	Quito in RR with good signal.	CC
9625	1845	VATICAN	Vatican Radio	good s/on in unid lang //9645. JS. These 2 freqs // for Latin mass 0531. HW+ 9645 Tourist anctns 0705. AC	
9630	0742	HOLLAND	RN Lopik	fair in EE to NZ, still QSLs as 9715!	JS
9650	0935	WEST GERMANY	DW	fair with mx and EE news.	GH
9655+	1100	THAILAND	Radio Thailand	with news, good.	MD
9660	2235	AUSTRALIA	VLQ9 Brisbane	poor in EE with request prgm. Noisy.	ECa
9665	1315	SOUTH KOREA	Radio Korea	Seoul fair in FF //11860, new freq.	JM
9670	1823	PORTUGAL	IBRA Radio	ident in EE, rlg prgm in unid lang, exc. 2059 hrd closing Sundays only, after EE prgm.	CS
9670	0615	USA	VOA Greenville	with EE Breakfast Show, good. S/off 0630.	ROk
9675	0936	BRAZIL	Radio Diario da Manha	vg in PP with many advts.	DL
9690	0650	ARGENTINA	RAE	s/off 0700 in EE. AC. 0012 vg signal in SS.	PO
9690	0600	ANTIGUA	DW	in GG for Sth America. Opening anct in EE "This is Radio Deutsche Welle, transmitter Antigua" S/off 0950 1/11. JM	
9700	0600	WEST GERMANY	DW	in EE with news, good. Hausa at 0630.	CC
9705+	1330	MEXICO	XERMX	opening in Spanish, poor.	HW
9725	0430	SWITZERLAND	SBC Berne	in EE to West Coast Nth America, good.	CC
9730	0100	EAST GERMANY	RBI	weak in EE due heavy QRM from DW 9735.	PO
9730+	2044	UGANDA	Kampala	fair-good in EE, mixed with Radio Australia.	MO
9755	1945	INDIA	All India Radio	Delhi good in EE to Africa.	ROk
9760	1929	MOROCCO	VOA Tangiers	relay with EE news, fair.	IH
9790+	2330	ALBANIA	Tirana	opening in SS, fair.	HW
9825	0600	GREAT BRITAIN	BBC	s/on exc in Polish. GH. 9915 in EE 0420 vg.	GH
11700	1930	DOMINICAN REP.	Radio Clarin	in SS with ident, mx. Fair 22/10.	JM
11710	2330	ARGENTINA	RAE Buenos Aires	poor in EE. Heavy QRM. IH. 1916 poor in SS at this time in Japan.	MO+
11720	1840	CANADA	Radio Canada	International African Svce in EE, fair.	IH
11720	2105	SWITZERLAND	SBC Berne	fair in EE.	BL

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITS
11725+	0206	PHILIPPINES	Radio Veritas	good signals. Some EE heard.	HW
11730+	1200	UZBEK SSR	Radio Tashkent	with news, good. MD. (EE sked.Ed)	
11740	2202	INDIA	All India Radio	good with EE news.	BCa
11745	1443	SWITZERLAND	SBC	very good in FF. Italian at 1446.	BCa
11755	0740	ARGENTINA	Radio El Mundo	EE & PP mx,SS ident 0750 //6120 fair.	JM
11775	0445	SPAIN	RNE Madrid in SS.	Very strong signals.	CC
11790	2028	SWEDEN	Radio Sweden,Stockholm	fair in FF.	JS
11795	0044	RWANDA	Deutsche Welle relay,	Kigali good in GG.	JS
11800+	0530	ETHIOPIA	ETLF	poor with nx 15/8.MD (Appreciate up-to-date info.	
11805	0800	BRAZIL	Radio Globo	with pop music,frequent anncts,jingles.LM(Ed)	
11835+	2000	URUGUAY	Radio El Espectador	poor with SS idents & mx.	MO
11840	0830	PHILIPPINES	AFRTS relay	very good with ABC news.	PO
11865+	0025	BRAZIL	R.Clube Pernambuco	sports,fair.R.Record 11965 also sport.	
11870	1410	SWEDEN	Stockholm	good in EE with news & humorous prgm. BCa /RY	
11875	0000	PORTUGAL	Lisbon	new service to Venezuela in PP. SS 0200-0230.JM	
11875	0200	GREECE	Athens in English,	mixed with Portugal.	AC
11880	0330	SPAIN	Voice of Spain	in EE to USA.Severe QRM.JS.0130 nx,fair.MD+	
11890	0245	AUSTRIA	ORF Vienna	vg with SS prgm. Also logged 17850 at 0630.PO	
11890	0330	EAST GERMANY	RBI	in EE to Nth America fair.JM. EE s/off 0415.BL	
11900+	0615	SOUTH AFRICA	Radio RSA	good with news.	MD
11905	0350	ITALY	RAI Rome	opens in EE with nx. Good till closing 0410. CC	
11915	0600	ECUADOR	HCBJ	EE to A/NZ,good.RCk.0632 vg.Also 0303 good.BA	MD+
11925	0539	GREECE	VOA Kavala	very good with EE prgm relay.	PO
11940	0800	USSR	Radio Moscow	new freq in EE to Aust/NZ fair. Also on // 9780, 11690, 15130 and 15385.	JM
11950	0130	KAZAKH SSR	Alma Ata	good s/on in Kazakh.BCa. P&P int sig at 0130 then RR prgm. Is this Alma Ata?	PO
11960	0808	JAPAN	NHK Radio Japan,Tokyo	fair with European Svce in EE.	IH
12045	0508	ISRAEL	IBA	with news,weather, to Aust/NZ, very good.	BA
13250+	2130	CLANDESTINE(VENEZUELA)	Radio Euzkhadi	poor in SS with anncts, mx and idents 23/10 and since. Is jammed.	BV
15105	2032	GRENADA	Radio Grenada	poor but steady after NHK off. Local nx, requests,advts in EE.Blocked again by NHK 2055.BC.2040 very poor in EE. PR. 2051 very poor in EE till Tokyo back 20551.PE	
15120+	1230	SWEDEN	Radio Sweden	fair in EE with id,nx.QRM RBI on 15125.	BV
15125+	1200	EAST GERMANY	RBI	Belin fair but mixed with Sweden.	MO
15135	1135	INDIA	AIR Delhi	new freq fair in EE.State Development news. JM	
15145	0145	BRAZIL	Radio Jornal	do Comercio with sport //Bandeirantes on 9645. In PP. PO. Good with soccer 2335.	RY+
15150+	0115	CHILE	La Voz de Chile	poor in EE.HW. 2355 fair in RR with id.RY	
15185	0445	SEYCHELLES	FEBa	poor in AA. HW+ 0455 poor with AA prgm.	PR
15220	0515	SOUTH AFRICA	RSA	poor s/on in EE & FF.BL.0616 EE nx,fair.LM	MD+
15245	2130	BRAZIL	RNB Brasilia	back here testing vg 17/10BC. 2110 good in EE to Europe ex 11780.JM.2140 in EE.Heavy QRM.IH 2100 good. BL	
15270	0655	FINLAND	Helsinki	fairly good in Finnish/Swedish. S/off 0734. DL	
15275	2140	NETHERLANDS	ANTILLES TWR	in Norwegian,poor.JS.NOREA prgm at 2145. TWR prgm at 2200, both in Norwegian.	PO
15290	2300	PHILIPPINES	VOA relay	with Breakfast Show,good.RCk.2335 exc. BA	
15345	0620	KUWAIT	Radio Kuwait	with light mx prgm. Fair signal. JD	
15350	1817	ZAIRE	Kinshasa	fair,steady in FF with highlife mx,advts. BC	
15445	2159	LIBERIA	VOA Monrovia	good with EE news and commentaries. JS	
15445	2250	NETH.ANTILLES	in GG. PP 2300,fair.	New freq.JM.0015.AC. 0200 in SS to close 0215,good.CC. SS to Central/Sth America,good.HW+	
17715	1030	HUNGARY	Budapest	in EE after DW s/off.AC.1035 EE nx vg. LM	
17745+	1550	EGYPT	Cairo Home Service	with AA chants. Good signal. RY	
17830	0230	PAKISTAN	Radio Pakistan	EE dictation nx. QRM from NHK. BA	
17845	0900	WEST GERMANY	DW Julich	in GG to A/NZ good. Also 21560 at 0710.RCk	
17855	0815	SAUDI ARABIA	Riyadh	with AA ident & mx. Fair 25/10. JM	
17890	0515	BANGLADESH	Dacca	vg //15410 and 21685 poor. PO	
17890	0317	TAIWAN	VOFC Taipei	in EE. Nx 0323. Poor due QRM Japan.BA 0217.MD+	
21485	2105	USA	VOA Bethany	fair in EE.BL. 21515 FEBC Manila in EE at 0025BL	
21540	0930	RWANDA	DW Kigali	relay in EE.IH.21610 BBC EE Nx 0905 //21710.GH	
21660	0858	CYPRUS	BEC	relay local id.BC.21730 France 0913,many idents FF.BC	

ARTHUR CUSHEN'S SHORTWAVE REVIEW 19

This month there are many major frequency changes to report, while Canada is now broadcasting to the South Pacific for morning reception instead of the evening. Members of the BBC World Radio Club have an opportunity to earn a verification for the new BBC Antigua Relay during the 1976 Award scheme, 14 to 28 November. Club members have to report 5 stations, one from Antigua, one from a UK transmitter, and the other 3 from relays. All must be World Service programming. Check the Club programme for full details.

All Times are GMT (Add 13hrs for NZDT) All frequencies in kiloHertz

ANTIGUA The BBC relay on Antigua has made a frequency change and replaced 9765kHz with 6055, 2200-0015 in Portuguese, 0015-0415 in Spanish, since 19 October. The Ascension relay now uses 9765 for these 2 transmissions.

CANADA Radio Canada International, after broadcasting to the South Pacific in our evening period for 30 years, has now switched to a morning transmission, 2000-2030 in English, 2030-2100 in French, on 15290kHz, 15325 and 17820kHz.

GREECE Athens is using 11875 in English 0200-0225, then in Greek to 0350. There is some interference from Portugal on this frequency.

HOLLAND Radio Nederland is now using 9630kHz on a regular basis to NZ in English 0630-0750. (Bonaire, Netherland's Antilles relay used. Ed)

HUNGARY Radio Budapest heard on 17715, opening in English at 1030 after Deutsche Welle closes. Also uses 7155, 9585, 11910, 15160 and 21525.

INDONESIA RRI Kupang verifies with a letter in Indonesian from Harry Silalhi. The station operates on 3550kHz with 10kw, with the address of Jalan Tom Pello No.8, Kupang, Timor. A local news bulletin in Indonesian was heard at 1400.

SOUTH KOREA Seoul has been heard testing on 9525 and 9580 with English at 1000. 9525 has also been noted at 0830 in French, but on Sundays is mixed with TWR Monte Carlo.

SWEDEN A new service in English for reception in Australia & NZ has recently been introduced at 1100-1130 by Radio Sweden, using 9630 and 15305kHz. The service is daily except Mondays when the transmitters are off the air for maintenance. The transmission is also beamed to Europe. Tests in Swedish for this area continue on 9605, 0630-0800 GMT, until 6 March 1977. Single side band tests also continue: 0500-0800 on 17775, 0900-1300 on 17770, 1300-1400 on 17835, 1400-1600 17775, 1600-1800 15390, 1800-2130 11770. The transmitter is at Horby and power is 30kw. A special verification card is being issued for these SSB transmissions of the programmes of Radio Sweden. (Ed's note: Reports on SSB tx to Swedish Telecommunications Administration, Radio Dept, Broadcasting Division, S-123 86 Farsta, Sweden. Has EE at 1100,1230)

SWITZERLAND Berne has a new frequency scheduled to this area from 7 November, in English 0700-0730 and 0900-0930. The new channel is 9560, which will join 11775, 11950 and 15305kHz.

USA The VOA Oceania Service 2200-2400 is now using 21610 replacing 15205 from Dixon. Also used are 17820 from Dixon and 15290 from the Philippines.

VATICAN Vatican Radio can be heard well in it's 4-language service for tourists at 0700 on 9625 and 9645kHz, as well as other frequencies.

VENEZUELA Radio Frontera has returned to 4750 and has been heard at 1020. Reception was formally confirmed by a letter and one of the most colorful pennants issued by a Latin American station.

BANDWATCH CONTRIBUTORS: Special welcome to BP Bill Pearson (former SW Mail-bag Editor), DP Dick Pollard (3450ft up in the forests behind Nelson) and RY Robert Yajko (our new American contributor). Thanks also to:
LM Leigh Morris RB Ray Babbage DL Dene Lynneberg RCK Ross Clark
PO Paul Ormandy AC Arthur Cushen CC Colin Campbell GH Gordon Hutchison
BA Brent Allred RG Ross Gibson JD John Durham IH Ian Hitchiner
BL Bruce Lister BCA Bruce Cavanagh CS Cecil Symmes JS Jack Searle, 9 others!

..sign off..

MYSTERY NOISE For the last 5 months a gigantic Russian radio transmitter has been interfering with shortwave broadcasts. The transmissions 'which sound like a machine gun' have been heard daily at varying times and over a wide range of frequencies. Swedish, British and Austrian authorities have jointly managed to identify the location of the transmitter as the Poltava area of the Ukraine. One report puts the transmitter power as high as 2000 kilowatts, and it is suggested that the transmissions are a form of SW radar. P.Ormandy, BBC MS(c)

RADIO NEW ZEALAND sked 31 October to 6 March to the Pacific: 1800-1950 on 9770, 1800-0050 on 11960, 2000-0430 on 15130, 0100-0600 on 11705, 0440-0715 on 9540 and 0610-1030 (later if special events) on 11780. To Australia 0730-1030 on 6105. If special events like sport are to be carried beyond 1030, frequency is new 6015kHz. During the summer 'Sports Roundup' will be on 19 or 31 metres from 2130 to 0600. The 25 metre band will continue to carry the National Programme relay. During Australia-NZ Cricket Tests early 1977 transmissions will be beamed to Australia rather than the Pacific. Arthur Cushen's DX World 0915 first Sunday in the month, Mailbox 0915 third Sunday.

market square

HELP WANTED Cecil Symmes, Flat 1, 17 Lewer Street, Karori, Wellington seeks information on helically wound whip aerials and their effectiveness on SW. Can you help?

FOR SALE: Trio JR-500S communications receiver plus Joystick variable frequency antenna and tuner. Also installation manual. As new. Price \$200. Write to: Roy Stone, 4 Walnut Grv, Omokoroa, Tauranga.

FOR SALE: Hallicrafters S-240 10 transistor, 8 diode, general coverage receiver, 5 bands - AM, 3 SW, FM. BFO. AFC. S-meter. \$150 ono. Federal cassette tape recorder, battery eliminator, 3 cassettes. \$30. Write: J.Aitchison, 28 Cranston Street, Dunedin.

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PAPUA NEW GUINEA According to a QSL from Radio Western Districts, reception reports to P-NG stations should be addressed to the appropriate Station Manager. Cecil Symmes

RADIO NORDSEE INTERNATIONAL's Mebo II pirate radio ship has left Rotterdam Harbour and is now bound for an African country, according to the French newspaper "Le Figaro". B.Chenal SCDXers