



# NEW ZEALAND DX TIMES

Registered at P.O.H.Q. Wellington as a magazine

VOLUME 29 No. 11

JULY 1977

## TWR GUAM ON AIR!

KTWR, Trans World Radio's new shortwave gospel station on the Northwest Pacific island of Guam has commenced test transmissions and regular programming is to begin on 15 July. The tentative schedule reads: 0930-1000 GMT on 11780, 11900 kHz, with "Back to the Bible" Tuesdays-Saturdays, "Unshackled" Sundays, and "Night Sounds" on Mondays. The same frequencies are also scheduled 1000-1100, beamed to Japan and Indonesia. 11780 and 9575 are listed for China 1100-1300 and South East Asia 1300-1330. Reception reports are requested - the address is P.O. Box 3518, Agana, Guam 96910.

From info to hand, League members were amongst the very first to hear and report reception of KTWR. New contributor Dave Webber of Tawa near Wellington first noted the tests at 0840 GMT on Monday 13 June, on 9505kHz, and John Mainland and Bryan Clark intercepted this frequency shortly after. Others who have subsequently tracked down the test transmissions are Paul Edwards, John Allchin and Barry Williams, and frequencies in the 31, 25, 19 and 16 metre bands are reported to this month's Bandwatch.

Verification has been very prompt (9 to 14 days!), in most cases by the standard TWR 'World Map' card with full details on the reverse. Barry was an exception - his QSL details were stamped on the reverse of a photograph of the KTWR curtain array. (See page 10, photo I) All early veries have been accompanied by personal letters from TWR Guam's Field Director Rodger Groff. He advised John M and Bryan that they were amongst the first 10 reporters to KTWR. Whilst Guam will be a new SW country for most of us, they have been on the SW bands before - veteran DXer Arthur Kindell tells us that an American Forces station operated from the island during the 40's.

KTWR's two 100kw transmitters are located at Merizo, a small town in the southern part of the island of Guam. From this strategic location Trans World Radio will be directing the gospel message to nearly half the earth's population - in China, southeast Asia, Indonesia, Russia and Australasia. Local coverage is via medium-wave KTWG, which has operated on 770kHz with 10kw since August 1975.

We wish Trans World Radio Pacific every success!

**INSIDE:** 2-page photo supplement, National Panasonic's new direct-readout portable, plans for SW from Panama and Saipan in the Marianas Islands, and all the usual features.



CLOSING DATE FOR AUGUST ISSUE: 5pm MONDAY 1 AUGUST. DETAILS OF YOUR DX, QSLs RECEIVED, BEST-OF-MONTH ENTRIES AND LADDER TOTALS PLEASE, TO BOX 2956 IN WELLINGTON, NEW ZEALAND. ALL CONTRIBUTIONS WELCOME.

# FROM THE BRANCHES

**SOUTHLAND** The June meeting was held at Steven Greenyer's with 7 present and several apologies. Steven acted as president and Paul Aronsen as secretary. Final details of the branch Progressive Dinner were discussed, security at Tiwai, plans to promote the 1978 Convention and the raising of funds. The new T-shirt and car stickers were on sale. Merv Branks submitted samples of new branch certificates, and members heard cassettes of interesting recent DX. Competitions: BCB to Ray Crawford with HCMH6 Ecuador 1535 1kw & BEC Crowborough 1088 500kw. SW Arthur Cushen FEBA 11845 100kw, Paul Aronsen SBC 3985 100kw.

**OTAGO** The May meeting was cancelled due to a heavy snowstorm! In June 5 members got together to meet new member Kirk McMillan of 4ZB and for some CB listening. The July meeting will be held at 7.30pm on Thursday 21 July at Ash Nallawalla's, 36 Clyde Street (rear), Dunedin. Phone 69543 if unable to attend.

**NORTH OTAGO** 9 members were present at the June meeting. This has been a busy month for the branch. The new aerial system at the Listening Post is in full working order and proving its worth. The talk and demonstration given to pupils of the Oamaru Intermediate School was well received, and we now have a very enthusiastic junior section, who will meet 6.30-7.30pm on 14 July. The next branch meeting will be held on 28 July.

**CANTERBURY** 7 members attended the 22 June meeting at Bob Boundy's. Very little DXing has been done by members, Austin Hadler being the usual exception, with several SW loggings. Publication of the DX Times was discussed. The next meeting will be held at 7.30pm Friday 22 July at Bruce Officer's, 12 Burnside Crescent, Burnside.

**WELLINGTON** 8 members attended the July meeting at John Mainland's, in which the feature was a slide presentation by Bryan Clark of the recent DXcursion to Eastern, South and Central Australia. Competitions: SW Senior to Bryan Clark with Benin 4870 and Sweden SSB 21680. SW Junior to Paul Edwards DW Kigali on 9565. BCB Paul Edwards DW Malta 1570 and Phil Brooks 3WM 1090. Next meeting will be held at 82 Pirie Street, Mt Victoria at 8pm on Friday 29 July.

## PACIFIC ASIAN REPORT

PART  
ONE

**IRAN.** Khuzestan 600kw on 1080kHz is carrying the Ahvas regional domestic service 1330-1930 on an experimental basis. Will eventually operate 0230-0530 on 576 and 1430-2030 on 1080, carrying Voice of Iran prgms to large part of Middle East by day, including parts of North Africa at night. There is also a reserve tx of 600kw. A new tx at Farahabad with 20kw on 770kHz carries Radio Sari prgms. The other Radio Sari 20kw tx will continue to relay the Second Prgm on 1290. A 20kw transmitter at Yazd was put into service on 16/6. It broadcasts 14hrs daily on 1040, 5hrs being locally produced programmes. BEC MS(c)

**SRI LANKA** General Elections will be held on 22 July, so watch for all-night election results that day, on MW and shortwave (Hope the SW buffs read this section too!)

Victor Goonetilleke UADX

**INDIA** AIR Arunabad is new station on 1520kHz. UADX

**AUSTRALIA** 2BE is due to get a licence for a repeater station to serve the Batesman Bay-Moruya-Narooma areas. It is hoped to have the relay on-air this month, depending on frequency allocation and site approval. 6NW the new commercial station for Port Hedland is advertising for staff and plans to commence operation shortly. B&T A.Cushen The big radio story across the Tasman concerns 3ZZ. After earlier announcements that ethnic stations 2EA & 3EA would come under ABC control on 1/7, the Government announced on 30/6 that they would set up an Independent Statutory Authority to control ethnic and community broadcasting. Funds for the ABC to run 3ZZ 1220 ( $\frac{1}{2}$  of its prgms are in 30 ethnic languages) would be stopped and the station was to close down on 1/7. Several days after this 3ZZ was still on-air in defiance of the Government direction. Their claim that 3ZZ and 3EA served similar audiences and that duplication was not justified has apparently not impressed station staff and supporters fighting to keep 3ZZ on-air. Summarising info from Bruce Williams and Chris Martin.

# BROADCAST DX with Bryan Clark

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With a few exceptions its been a relatively quiet month DXwise. Robin Chambers has several exceptional Latins in CW160 and OAX1V; the Southlanders have some good logs out, and some good returns. St Pierre et Miquelon 1375 4kw certainly takes pride of place in the QSLs reported this month! Globe-trotting members report on their DXing en-route, and there's plenty happening on the MW scene in Australia & NZ. To specifics:

NEW ZEALAND Radio NZ's latest repeater goes on air at 6.00am Friday 15 July. 3YR Reefton, in the Nelson Province, will operate with 100w on 1510kHz, 24 hours a day. Programmes will be relayed from Greymouth as follows: Weekdays 6-9am 3ZA, 9am-2pm 3YZ, 2pm-11.05pm 3ZA, 11.05pm-6am 3YZ. Saturdays & Public Holidays 6am-11.05pm 3ZA, 11.05pm on- 3YZ. Sundays to 8am 3YZ, 8am-noon 3ZA, noon onwards 3YZ. This comprehensive info gleaned by David Ricquish, who also advises that the 3ZM/3ZA link on Sundays continues. 'Radio Nova' is relayed from noon to 6pm, with dual ids as "Coast to Coast Radio Nova/ZA" and "ZM/ZA Beautiful Music". Keep an ear out for Radio Active 1260 during August. The Victoria University station was hoping for a short-term licence during the University Arts Festival. More news next month we hope.

Further to last month's report on the Canterbury Broadcasting Company, the tone tests were noted by Keith Robinson and Arthur Cushen also. Arthur received more details from Managing Director Mr McKay. The frequency of 1260 was allocated for testing only, and the eventual operating frequency will most likely be higher in the band, he said. An eventual output of 5kw is expected. The company was formed in August 1976 to press for the introduction of FM broadcasting and also to apply for an AM warrant. The application was filed with the Broadcasting Tribunal on 23 June, and if all goes to plan, an on-air date of February 1978 is in prospect. The Canterbury Broadcasting Company has no connection with a company of the same name which wound up some years ago after it's licence application was unsuccessful. A newsclip forwarded by Phil Brooks advises that the planned Wanganui Broadcasting Association has been allocated the tentative frequency of 1080kHz for the purposes of study, and to use as a base for it's ultimate application to the Broadcasting Tribunal. Discussions have been held with Radio Active, Radio Avon and a national radio engineering firm, regarding transmitters. The organisation will be non-profit and non-commercial group working within the district to develop the concept of access radio. Lyall Mathieson forwards a report from the Thames Valley Gazette, detailing the Paeroa Borough Council's efforts towards a radio station in the Valley. Radio listening in the area is currently fragmented over 7 stations. The ECNZ's solution is to greatly increase the power of 12H 1310 in Hamilton, and to later open a branch office in the Valley. The council has informed the ECNZ that the proposal is not an acceptable answer to their lack of a station with which the area could identify. The press report indicated that 12H's power was likely to be increased to 10kw. Finally on the local scene, Radio i (1XI 1590) hopes its move to 1330 (as soon as equipment can be imported) will lift the station in the ratings, now the lowest in the station's 7-year history. At the same time it will move into new premises. Radio i and Radio Hauraki are to share a new transmitter site in west Auckland near Te Atatu, which will give both stations improved coverage and reception. This info from National Business Review.

WVUV 1120, not an easy one to verify, has QSL'd John Allchin and advised him of their new address - P.O.Box 2567, Pago Pago, American Samoa 96799.

More Time Changes via BEC MS(c): Cuba is on daylight saving GMT-4 till 25/9, Algeria is GMT+2 until October, Tunisia is GMT+2 until 25 September also.

See Pacific Asian Report for the latest Aussie News, BEC Masirah closure etc.

LYALL MATHIESON Paeroa opens Mailbag with QSLs from 2XW,ZK,CO, 4QR,QG,QS, 4NA, 3XG, 7NT, 5CL,AN. Thanks for nx. ROBIN CHAMBERS Opunake advises reports out to AIR Sangli 1250, Penang 660, Voz de Monteria 1085, TIPJ 1225, CW160 1599 OAX1V 1465, CMJG 1270. QSLs Saarbrucken 1421, Sudan 764, Kunming 1212, Malta 1570.

PHILIP BROOKS Wanganui has a lone report to 3Z0. QSLs Fiji 810, 2RE & 3WM.



IAN CATTERMOLE Blenheim has reports away to 2MG, XEPRS, VOA 1580 & some locals. Veries from 1YA, 2GL, 4QL, 5AA, 6ED, JOQK and JOUF. Thanks Ian.

ALAN GILMOUR Greymouth has QSL'd JOUB and VSZ1 844. Picking up soon?

JIM BENZONI Hamilton has a lone log of 2XW and replies from 2ZK, 1XI, VL2NI, 4AM, JOQL, 4YQ, Calcutta 113Q. Have yr photo at Convention @ 45c plus mailing address please Jim.

ARTHUR CUSHEN Invercargill advises QSLs from Caymans 1555 & Monte Carlo 1466. Reports out to YVLL 670, CB76 760, 7SH 1570, 2EA 800. Tx for news.

BRYAN CLARK Wellington has reported 3ZZ and verified HJHN Sutatenza 960, Reunion 665, HJKL Nueva Granada 610.

HARRY WEATHERLEY Melbourne brings us up to date with his recent travels. Reported at Convention 77: TWR 1466, VL2NI, Union 880, Lima 854, Tahiti 740, VOA Rhodes 1259, JOSF, KELL. At Tiwai: Dominica 595, Vigia 1330, WSM KRLD, KXYZ, XET, Pacifico 1030, KXVI 1600, Victoria Lima 780, Tropicana 540, Rumbos 670, Relogio Cuba 1270, Cayman 1555, Nuevo Mundo 850. At the Branks 6x3: 1XW, 1XX, KDAY 3rd try. At home in Mt Waverley: Cairo 1106, RRI Surabaya 585, RRI Jogjakarta 1107, 3SR, 3BO, 3YB, 2YC. QSLs from: Austria 1475, Lighthouse 1165, VL2NI 1XW, Prague 1286, Tahiti 740, Cayman 1555, NHK 1600, Oman 1035, Tarawa 844, KGER, KTNQ, Lord Howe 1490, 7SD 3SR, 3BO, CKLG, Teheran 1555, KUMU, KIKI, Cuba 590, TWR 1466, DW Malta 1570, Sharjah 1575 for country 41. A worthwhile DX season Harry! Regards.

BRIAN WITHERS Christchurch reported VL2NI, KZOO & KHLO at Convention. QSLs from Tahiti 740, KTRH, KWKH, KSL, KHVH, WGY, WHO, WABC, KZOO and VL2NI.

PAUL ARONSEN Invercargill has one in from Caymans 1555 and one out - 3GI.

STUART FORSYTH Auckland, in between studies, has reported 4ZB, 3ZA, 1YE & 2YC. One back from 2XW. You have priorities right there Stuart.

PAUL ORMANDY Oamaru has had a quiet month on MW with a single log - VOA Poro 1140. QSLs from Surakarta 974, Jumbo 545, KABC, 3TR & Iran 557 for country 48.

DES DAVEY Te Kuiti has a lone QSL in from 2WL. More soon Des?

PAUL RAWDON Lower Hutt QSL'd CJVB.

4 MERV BRANKS Invercargill in the last 2 months has reported KXVI 1600 test, Dominica 595, TWR 1466, VL2NI, 7SD, Beromunster 1562, RBI 1511, Surinam 725, 2EA & 7SH. Veries from 780, 3WM, 7SD, DW Malta 1570, Caymans 1555, TWR Monte Carlo 1466, Beromunster 1562 & WHAS. VL2NI reverified. Thanks for words of wisdom Merv. Will hold.

MICHAEL POWER Brisbane, in his first contribution reports his first MW log as 1XI 1590. Welcome Michael - yes, it's a real bug! Good luck with yr DX.

DUNCAN WATSON Edgecumbe rests on his laurels with QSLs from Fiji 710, 1YA, ZB, 2NX, NZ, UW, YB and 2YW.

SUTTON BURTENSHAW Invercargill boasts some fine veries in Huancavilca 605, HJCX Sutatenza 700, St Pierre 1375 (wow!), Caymans 1555 & 2GN 1370 ppc. Logged at Tiwai: CB76 760, HJAJ 760, OBZ4X 760, YVLL 670, TIJJC 1525, XEB & XEDF 970. Logged at home: Iran 612, Riyadh 587.5, 7SH and 2EA. Muchas gracias senior.

CHRIS MARTIN Sydney reaps the rewards of another trip to the Parksbourne beverage farm: Africa Livre 996, 5UV, Mongolia(tent) 545, Zambia 540, Madagascar 1603, Uganda 809, Jayapura 1053, Mersing 1055, Zahedan 777, Surabaya 585, Islamabad 585, Malaysia 550. QSLs from Kitwe 1070 (world 1st) 5UV, Sharjah 1575, Austria 1475, USSR 971, TWR 1466 and IBA 656. Ta.

JOHN ALLCHIN Auckland has logged 2NR and 2WG and followed-up to KFRE. QSLs from WVUV, VSZ1 844, 2NR, VM & 4AY. Some great DX at Whangaparoa in the summer season John.

KEITH ROBINSON Kapuka has verified 7SH, 4BH, MK and Vidin 1223. Reports to 2EA, Layad Dayu 665, 4NA, Bari 1115 TWR 1466, 7SD & TWR Cyprus 1232.

## BEST OF THE MONTH

SENIOR: HCMH6 Radiofonicas del Cotopoxi, 1535kHz 1kw  
165 points. Ray Crawford.

JUNIOR: VL2NI Norfolk Island  
1570kHz 50 watts.  
115 points. Jim Benzoni.

WRTVH Arthur Cushen, 212 Earn Street, Invercargill, still has 10 copies of the 1977 World Radio TV Handbook in stock. Be quick and order yours now! Price \$10. Ask any DXer - you can't afford not to have one!



# BROADCAST TRAIL

OUR STAR CONTRIBUTOR THIS MONTH IS ROBIN CHAMBERS - IT SEEMS ALL THE DX HAS BEEN UP TARANAKI-WAY IN JUNE!

## MORNING

- 610 KUAM fair at s/on 1900 7/6.  
660 Penang good at times 1740-1805.  
701 BBC Masirah in AA good 1840.  
(Now off due hurricane damage)  
755 Yemen good on west bev. 1815.  
825 ?? with EE pop songs 1615-1627 4/6, no announcements. Who?  
944 Asmara fair 1840 west beverage.  
960 Filipino peaking well 1820-1835.  
Anncd "DZI.. Central Manila"  
995 Unid female annr 1634 4/6.  
1065 Pop songs fair 1640 4/6 Who?  
1250 AIR Sangli good 1653-1716.  
1295 Sudan testing at strong level with FF songs 1838-1911 20/6.  
GG songs good 1843-1913 26/6.  
1505 Unid with EE pops 1537-1601 4/6.  
1555 Unid on west beverage 1545 4/6.  
Not DYLA.  
1555 DYLA exc 1845 on NW Beverage.
- ## EVENING
- 555 ZIZ carrier vg on east beverage 0920-0940 20/6. QSB 0945.  
585 RRI Surabaya fair 1040.  
595 Dominica fair from 0930 20/6.  
600 CMKV fair but mixed 0700.  
605 Huancavilca good 0655 18/6.  
675 Sonora carrier good 0920 on east beverage 20/6.  
780 CMJN Cuba over 4YA 0630 13/6.  
800 PJB tremendous 0920 20/6.  
820 WBAP way over 4ZA 0455 7/6.  
870 WWL fair 0500 7/6.  
910 KNEW good 0450 7/6.  
950 KPRC good 0453 7/6.  
955 RRI Kendari fair-good 1015.  
965 Radio Zaracay good at times 20/6 0508-0531. Chimes between anncts.  
1005 Radio Colosal good 0920 20/6.  
1020 Radio Margarita exc 0505.  
1025 Unid SS 0935. Unid 1035 0555.  
1030 HJER good 0505 20/6.  
1045 Indonesian exc here 1000 20/6.  
1055 Voz del Centro fair 0505 20/6.  
1080 Unid Colombian 0425-0445 18/6.  
1085 Voz de Monteria good to s/off 05.  
1098-99 Indonesian fair 1010 20/6.  
1100 WWWE poor thru 3ZB 0503-0520.  
1110 Radio Reloj very good 0603 10/6.  
1170 HJ..? s/off 0458 as "La Voz de la Republica de Colombia" 20/6.  
1190 Radio Cordillera exc 0610.  
1215 Unid, Indian type mx 0950 20/6.  
1220 XEB excellent 0504.  
1225 TIPJ Nueva Victoria gd s/off 0507  
1270 Reloj Nacional over 2SM null 0645

5 HIGHLIGHTS OF VISIT TO PARKSBOURNE NSW BEVERAGE SITE BY CHRIS MARTIN & JOHN CAMPBELL ON 1-3 JULY.

- 540 Zambia very strong on new freq with EE Nx 1800, //818.  
545 Mongolia suspected the light mx vg 1730. Not Hong Kong. No ancts.  
755 Malawi good with Afro mx 2045.  
809 Uganda 1810 with African music.  
837m Unid Somalia? Somali mx 1745.  
854 Ethiopia vg 1820. Has been off for some time.  
891m Rhodesia suspected the African mx here 1845. Severe het Fiji.  
996 Voz de Africa Livre now here 1800.  
1088 Comores fair in vernac. 1815.  
1091 Unid African with EE nx 1900.  
1603 Madagascar very strong new transmitter //1394. News 1900.

## EVENING TRAIL by RCh, continued

- 1270 Unid SS mxd Reloj Nac 0440 20/6.  
1380 Colo Colo good 0445.  
1445 Very weak SS here 0510 18/6.  
1465 OAXIV Radio Sullana quite good in peaks 0456-0527 13/6.  
1465 Unid SS 0939-0946 20/6, fair, deep fades. Inca type mx. Annct "..de Radio Nueva..Cuente?.. vaxico..melodia..Radio Nueva ben cuente" Who?  
1599 CW160 peaking to fair level 0532 -0545. Annct 0535 as "..estudios en Radio Vaxias Sociedad..Radio Fortalex, Uruguay, Montevideo"

MIDDAY TRAIL - from Lyall Mathieson. Stations noted between noon & 1.30pm at Matapouri, 25 miles north of Whangarei, on the coast. Lyall placed the receiver against the TV aerial cable to provide for an antenna. Station signal strengths were rated on a tuning meter, scaled 1 to 10.  
Fijians Suva 560 good(5), Lautoka 640 poor(2), Suva 710 vg(6-7), Labasa 680 (2) and 810 fair (3).  
New Caledonia: Noumea 670 good (5).  
Australia: 2BL (3), 4QR (2), 2FC (1).

## MORE MAILBAG

LEIGH MORRIS Palmerston Nth reported the following while holidaying in Singapore/Malaysia: Brunei 1100, Rangoon 955, Hanoi 1240, Bangkok 920, Singapore 630, Medan 855, Kuala Lumpur 590, 885 & 720, Ibu Kota 1070. QSLs Singapore 630 & KTOM. Thanks for report Leigh!

ERNIE MOORE Brisbane is reaping some QSLs from his NZ trip: Caymans 1555, WBZ, VL2NI. RRI Biak 1044 logged.

BROADCAST MAILBAG continued

RAY CRAWFORD Invercargill continues to 'drag in' the Latins viz Inca del Peru 1470, Sullana 1465, Mar 760, XEB, XESM & XEBEC 1470, 2EA, 2GN, Sabah 665 & Voz de Baranquilla 760. Veries from 4MK 1030, Israel 656, KRIO, XEDF 970, Jumbo, Cayman Is, BBC 1088 & 1295, Radiofonicas del Cotopaxi 1535 & St Pierre 1375. Some great ones there Ray!

PAUL EDWARDS Wellington has QSLs in From DW Malta 1570, Kuwait 1133, Berlin 1511 and Roumania 1457. Ta.

6 DENE LYNNEBERG Titahi Bay, checks in from Manila, Philippines. Reports DXDD 550, DXWG 910, DWJJ 980 (ex DWRT) and FMers DWXB, DZUW, DWAD-FM. Verie from DPI Radyo One 710. All Dene's nx below.

ASH NALLAWALLA Dunedin, now in the FROG club with an FRG7, has a report to 4XO & QSLs from 2MG, PK, CC, KTRH, A3Z, VL2NI with pennant, 4BU, JK, Caymans 1555, JOIB, Tahiti 740, Monte Carlo 1466, Tarawa 844 and DW Malta after 1 1/2 years. Am sure the new set will make a big difference. Tony K handling your request.

REPORT FROM THE PHILIPPINES

with Dene Lynneberg

DXWG Iligan City 910kHz with 5kw is a new station, having been on air for just a year. It is located in Quezon Avenue, just across the Public Plaza from the Maria Cristina Hotel where I was staying. DXDD Osamis City 550 logged here too.

DWJJ is new call for DWRT 980. DWBC 940 was formerly DWAU.

DYII heard recently on 1313, is located in Iloilo City, Panay Island, and is a member of the Radio Mindanao Network. The assigned frequency is 1310kHz and power 5kw. This info from KBP (Kapisanan Ng Mga Brodkaster Sa Pilipinas), of which DYII is a member.

DPI Radyo One 710 verie collected from Simeon V. Bonzon at the station.

FEBC info received in a phone call to an Engineer: Iba is used on SW for RR transmissions only, but they are planning to build a corner reflector beamed to the south, to broadcast to Indonesia with the same transmitter. There is one 100kw SW transmitter at Iba and room for two 50kw transmitters to be re-located from Bocaue. At the latter site there are five 50kw transmitters and no room for expansion.

At Saipan Island in the Marianas FEBC have studios and a 10kw MW transmitter under construction. They also have room for SW transmitters but these wont be in use for 1 or 2 years.

PACIFIC ASIAN REPORT

PART  
TWO

INDONESIA New 100kw RRI Ujung Padang 630 was handed over 27/4. BEC MS(c) Has already been heard by Keith Barton in Adelaide over co-channel 4QN. SDC

TARAWA According to a report in the February Pacific Islands Monthly, Radio Tarawa was transmitting "temporarily with a SW transmitter kindly offered for use by the Ministry of Communications, Works & Utilities. This is a commercial transmitter and cannot produce quality music. Our sincere apologies to our music fans, but we hope they will understand and that our own transmitter will soon be repaired." (844 assumed. Ed) NASWA Listeners N'bk.

MASIRAH ISLAND (OMAN) The BBC's MW Relay has been off air since a severe hurricane struck the island and Southern Oman about 20 June. The two 750kw tx were not damaged and the 1410/1412kHz mast still stands, but living quarters were flattened, the 700/701 mast brought

down, and all transmission feeder lines ripped out. No BEC personnel were killed but 50 persons lost their lives in the hurricane which lasted 2 days. It is hoped to have 1410/1412 on-air within a month, but the other outlet will take much longer.

via Chris Martin DX Post

AUSTRALIA New 7SH 1570 is noted with Tasmanian nx at 0910. 2EA 800 heard testing 1955, Greek at 2000. A. Cushen 3UL 530, 4CD 930, 3CV 1060, 3TR 1240 and 4GG 1200 are, or soon will be, 5kw. 2MG 1450 and 2BS 1500 are now 24hrs. 2CT 710 Campbelltown Community Radio Ltd, expected on-air November 1977. Will be restricted commercial operation with low power, 16km coverage. Ian Stanley Tune In. 5UV 530 is looking for a new frequency because of QRM from 6DL. Keith Barton SDC DX Post 3ZZ 1220 has been the subject of a political furore in recent weeks. See page 2 for details.

## BROADCAST NEWS FROM EUROPE & AFRICA

EGYPT Cairo 871 with 50kw ex 872. EBU via Dene Lynneberg. Cairo III is 50kw on 557kHz. Minia 1421 is 5kw. DXN via SRK

MOROCCO Casablanca 1484 moves to 1457. Distance via NRC

Agadir 935 is 600kw ex 100kw. EBU via DL

PORTUGAL Prgm I is 24hrs on 557 Guarda, 566 Valencia, 620 Vila Real, 665 Lisboa I, 692 Viseu and 719 Norte I. Distance via SRK. Coimbra 962 noted // to 1034. Sunspot. New stations Faro 620, Viseu 963 & Valencia 1170, all with 1kw and belonging to RDP. EBU via Dene Lynneberg

YUGOSLAVIA Belgrade Radio's 2nd Prgm broadcast throughout Serbia on 1007 using 200kw Obrenovac and 400kw experimental transmitter at Aleksinac. BEC MS(c)

SOUTH AFRICA According to Engineering Dept of SABC, the MW services in EE and Afrikaans were due to cease at the end of June 1977. Radio 5 (pop music network) will move from MW to SW in August. Chris Martin SDC

POLAND Kielce 1259 10kw is new. EBU/DL

ITALY/FRANCE An American company is setting up a commercial radio station in Ventimiglia, Italy to broadcast solely in FF. Transmitter will cover all of the Cote d'Azur. Hours 0400-2200 and was sked on air 15 May. BEC MS(c)

SPAIN R.E.M. and C.A.R. networks have merged to form Radio Cadena Espanola. EAJ64 Radio Segovia is on 1430 ex 1412. EFJ50 Radio Juventud de Cahorra noted on 1385 drifting from 1365. New 10kw transmitters in use by EAJ5 809, EAJ8 1025, EFJ15 1025, EFJ56 1133 and EAJ43 1412.

MWN via IRCA

EFE57 La Voz Navarra 5kw now on 1570 ex 1142 as at 10/76. WRTVH 77 has them on 1150 in Spain list and on 1133 in list at back. EBU/DL In a recent issue of the Finnish mag Sunspot are a large number of frequency changes which we take to be part of the November 1978 frequency plan. Recently heard Cordoba 1475 is shown on 1539, Madrid 1223 moves to 1260, Madrid 584 to 585, Murcia 854 to 855, Madrid 989 to 1107, amongst others.

CANARY ISLANDS The same list (see Spain) shows RNE 620 moving to 621, Radio Popular 1133 to 882, Atlantico 1097 to 1008, Radio Club 1412 to 1386, Juventud 872 to 1341. Sunspot

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RADIO

\* The Station of the Stars \*

LUXEMBOURG

28, HEATFOOT STREET, LONDON, W.1

## **CAN-AM REPORT**

DOMINICAN REP. HICN Radio Antillas is on 1125kHz from 1120. Sabana Grande de Boya 1320 is new, as is Radio Marien, Dajabon 1415. HISS Puerto Plata is on 1490 although announcing 1500. Radio Generacion is on 1500 ex 1495. ClarkNRC

COSTA RICA Radio Centroamericana, Apt. 2893, San Jose broadcasts 1000-0600 on 975 with 14kw. Output will be increased to 25kw. Formerly Radio Atenea. SCDX

VENEZUELA YVOE 720 is now Radio Vision Oriente with 1.5kw but going to 100kw. MWN via NRC. Radio Capital 710 s/off at 0600. Radiodif Venezuela 790 off at 0500. Ondas del Caribe 840 s/off 0500. Radio Majagual 1430 s/off 0500. Radio Landia has slogan "Canal Marino"

Cesar Objio NRC

DOMINICAN REPUBLIC Radio Union is new name for Turismo Internacional. Is on 1570.8kHz. NRC

LATIN BANDSCAN In the next column via Ron Schatz, Cesar Objio NRC plus Artic Radio Club, Ernie Cooper, etc.

- 710 HJNX Medellin hrd all night.
- 758 Radio America Latina ex 755.
- 775 HCMP2 Radio La Prensa here.
- 834 Unid Ecuador here, also 726.
- 830 YVLT Sensacion is all night.
- 845 HCEA6 Radio Ambato is here.
- 950 Radio Vision Caracas is 24hrs.
- 1015 HCRS6 Radio Surcos is here.
- 1025 TIAC Radio Fides hrd here 0300.
- 1125 HCPV6 Radio Centro listed here.
- 1159 Radio Columbia, Costa Rica here.
- 1160 Radio Suramerica, Bucaranga in Colombia is new all-nighter.
- 1235 Unid Ecuadorian hrd here.
- 1255 HCEM6 Ondas Carchenses listed.
- 1325 HCFR2 Radio Guayaquil operates.
- 1416 Radio Marien DR is here.
- 1456 Radio San Cristobal hrd here.
- 1465 Nueva Horizontes Ecuador hrd.
- 1490 Radio Olimpica Barranquilla ex 1340.
- 1500HJLT Radio Tigre is all night.
- 1500 YVZB Barquisimeto 10kw is new.
- 1510 Radio Swan, Honduras operates here, according to a QSL.
- 1515 Radio Musical, Santa Cruz la Sierra is new. S/off 0600. x1520.
- 1537 Radio El Sol, Ecuador is here.



The Administration Committee feels it is time that the vast difference between NZ and Australian reception conditions is drawn to the attention of all our members. In the June issue of the Australian DX News, statements made through the Medium Wave Editor have the temerity to suggest that NZ DXers "could be like those sheep - one follows another...is this a case of list logging", referring to the logging of Oman 1035kHz.

Because of the very limited opportunities offering in most parts of Australia for anything except stereotypic MW DX, it is difficult for such an experienced DXer to even visualise the possibilities that exist in our island paradise. For instance: 25w in Indonesia, 50w in India, 100w in both China and Japan, 800w in Italy, 1000w in England - these have all been verified on MW in New Zealand by active League members, but are unknown in Australia, even though that huge land mass is much closer.

To quote powers just shows lack of knowledge - often it is a small-powered station that is heard. For instance, some years ago WOSH Oshkosh, Wisconsin in the USA, using "considerably under 100w" according to the QSL, was clearly identified several times, even though there are more than 150 250w stateside stations on the same 1490kHz channel, most much closer. Only last month, 3 different South American countries (Chile, Colombia & Peru) were identified on 760kHz while 1YA Auckland 20,000w was operating. Of course, Oman 1035 and Babylon 1038 have been identified on the same morning from several NZ locations, and Oman has also been identified since Babylon left 1038. Both stations have also been verified.

The NZ Radio DX League is tired of the continuous bickering and sniping from the Australian Radio DX Club and those members of that club who also subscribe to the NZ DX Times and who continue to pass unwarranted comments, will be expelled from the League forthwith.

The above statement was prompted by the following item in the June 1977 ADXN.

1035 Unidentified AA station. Chanting at t/in 1535, followed by AA annots at 1545 on 12/5. WRFVH76 showed Babylon 1038 with 2000 kw, General AA px. EBU Review (May/June 1976) advised that this freq had changed to 1035. EBCMS (Aug 76) confirmed 1035 as in use. WRFVH77 shows 1035. Reports in NZ show Oman logged on 1035 (Aug 76) 1900-1925. Recent report from NZ shows Oman hrd 1035, 1st quarter of 1977. Is this a case of list logging, as the first generally published sked for Babylon 1035 appeared in WRFVH77??? Oman 100 kw vs Babylon 2000 kw!!! It could be like those sheep - one follows another. Letter to Oman seeks specific confirmation of program we logged (DX-W) (After discussion on the phone with EP, it seems that Babylon is beamed to North Africa and we would therefore be getting the side of the beam. In that case, the signals from Babylon should be weak or non-existent and the omnidirectional Oman transmitter would be the most likely one heard. However, the only way to know for sure is to hear and quote an actual ID announcement. I've seen reports of the NZ reception of Oman in other DX publications, but I don't remember seeing any quotation of an ID. Who will be the first to definitely ID the station on 1035? - RC)

## STATEMENT FROM THE CHIEF EDITOR, NZ DX TIMES

9/7/77

The above comments in ADXN are only the latest in a long series of provocative actions directed at the League and NZ DXers by ARDXC members. Our tolerance of their behaviour has been exhausted and the customary exchange of club magazines and DX information has been terminated.

The League maintains cordial inter-club relationships with 12 other DX organisations throughout the world, and we look forward to continued cooperation with them, in the true spirit of the DX hobby. You can be assured that our decision to make this issue public was not taken lightly.

First it was the Barlow Wadley, then the Yaesu FRG7. Latest receiver to catch the eye of League members is the new National Panasonic RF-2200BS, or DR22 for short. Although only available on a duty free basis to date, several members already are reporting on the attributes of the set. Certainly for only \$130 duty free from Miles & Carlaw Ltd, Auckland, it's the best bargain about if you're considering an overseas holiday. In Australia the duty free tag is A\$168, the retail price \$217. Other prices reported are Fiji \$140, Kuala Lumpur NZ\$195, and in the USA retail prices are less than \$150. Hopefully, in NZ we would not pay more than \$300 retail!

The DR22 is described as an FM/AM 8 band world-wide receiver with direct read-out mechanism. There are 37 transistors and 2 ICs. Frequency-linear variable capacitor is used, giving each of the 6 shortwave bands an equal width of 4 MHz. The bandspread dial is precisely interlocked with the main tuning dial so that one complete turn equals a 1MHz spread. Frequencies on each SW band can be calibrated at 125kHz intervals, by using the 2 crystal marker switches. The 500kHz crystal marker can be used to lock the bandspread dial. This is divided into 10kHz intervals, making visual estimation of even 5kHz intervals easy and precise. There are 8 marker points at 125kHz intervals on the bandspread dial, for accurate use with the crystal markers.

Its smart in appearance and compact - weighing only 3kg, and measuring 318mm long, 188mm high and 100mm deep. Power is provided by 4 D-size batteries or AC mains. The large 100mm speaker gives maximum power output of 3 watts (60% modulation DC). A 7-step whip antenna with total length of 963mm is provided for SW/FM reception, and an excellent gyro ferrite antenna is very directional on medium wave. Other features include BFO, separate bass and treble tone, RF gain control, 2 speed tuning, AFC-bandwidth (wide or narrow), dial light, external antenna, speaker/headphone, and recording outlet jacks. Sensitivity is quoted as 0.5uv maximum on 3.9-20MHz, and 0.3uv maximum 20-28MHz.

Shortwave performance is very good with double conversion, the first IF on 2MHz, the second on 455kHz, and no birdies or unwanted signals have been noted. Reception is good on the DR22's whip, but there is a marked improvement when an external longwire is connected. Compared with a Drake SSR1, the audio is better and the variable bandwidth a distinct advantage. SSB can be resolved clearly with careful tuning. It is unfortunate that SW coverage is not completed with the 90 metre band.

Medium wave performance, being single conversion, is a different story, with poor image rejection of nearby Radio Hauraki. Dial markings are every 20kHz and readout is in no way related to the fine accuracy on shortwave. However the gyro antenna atop the DR22 is very sensitive, and it is possible to null out local stations to hear Aussie signals.

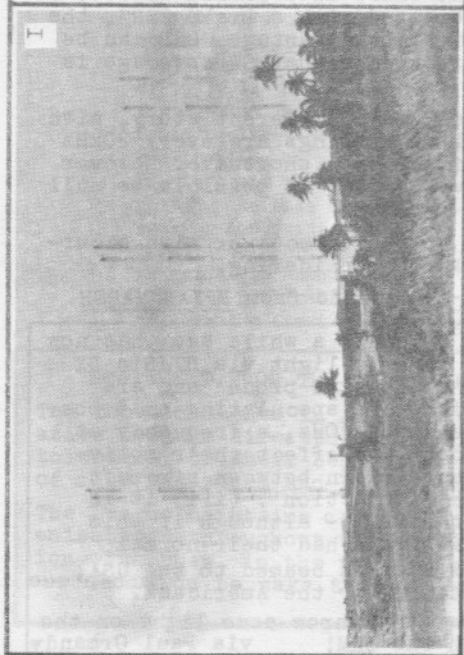
Summing up, if you're an SWL and looking for a portable receiver with accurate frequency readout, this set would be well worth considering.

( FOR A PHOTOGRAPH OF THE DR22, SEE PAGE 10 ) Info from BRYAN MARSH

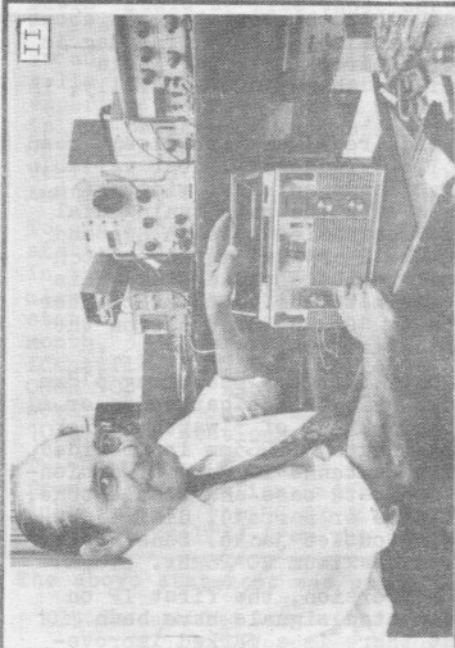
The Russian 'mystery noise' which plagued the SW bands a while ago, has now lessened power. The following information has come to light via HCJB's DX Partyline programme. The pulses are known as 'distortion prone' and are beamed by a technique invented by GEC. Scientists are speculating on 3 possible answers - (i) the pulses are at a frequency of 10Hz, a frequency at which scientists have found can make people moody and effect their motivation. (ii) it is a new form of radar which can discern between aircraft types and models, which is known as 'geometric distinction'. (iii) it is being used to push cold air masses away from the USSR - although if this is the purpose, it hasn't worked because the Russians had their normal cold winter. The key factor is that the transmitter is beamed to the USA, so one may assume it is to make life uncomfortable for the Americans.

Its not a jammer apparently, but until the Russians throw some light on the matter, we'll just have to stand by and watch the QRM! via Paul Ormandy

PHOTO SUPPLEMENT This page: (I) Trans World Radio Guam's curtain antennas and transmitter building, housing two 100kw shortwave transmitters. (II) Dr Trevor Wadley demonstrating his radio brainchild, the Barlow Wadley portable receiver, of which more than 12,000 are in use world-wide. South African Dr Wadley worked on the set over a 27 year period before it went on sale in the early 70's. (III) Exciting new transistorised portable receiver, National Panasonic DR22 or RF-2200BS. (IV) NZRDXL National Secretary Ray Crawford 'on the job'.



I



II



III

Power Switch  
Light for Meter and Dials  
BFO Switch  
Triple-Function Meter  
Gyro Antenna (for MW)  
Band-Spread Dial  
Main Tuning Dial  
Telescopic Whip Antenna (for FM/SW)  
FM AFC/Bandwidth Selector  
125-KHz Crystal Marker Switch  
500-KHz Crystal Marker Switch  
Volume Control  
Bass Control  
Tuning Speed Selector  
Tuning Control  
Treble Control  
Short-Wave Band Selector (SW - SW1)  
Band Selector (FM/SW/MW)  
RF Gain Control (for MW/SW)



IV

Next page (below): (V) Convention 77 guest of honour Keith Glover proves his ability as an auctioneer! (VI) left to right - Austin Hadler, Arthur Cushen, Keith Glover, Sutton Burtenshaw and Merv Branks at Akaroa.

(VII) Group - front: Jack Buckley, Harry Weatherley, Chris Martin. Seated 2nd row: David Ricquish, Arthur Cushen, Merv Branks, Jack Searle, Ernie Moore. Standing: (continued below)



Photo VII (continued) standing: Bruce Officer, Chris Mackerell, Lance Cullen, Paul Ormandy, Bob Boundy, David McNabb, Andrew White, Alan Gilmour, John Newman, Phil Brooks, Ash Nallawalla, Keith Barton, Sutton Burtenshaw, Jamie Hines, Mike Smith and Jim Benzoni. (VIII) DXcursion 77 - function in Melbourne hosted by Mr & Mrs Keith Glover 5/5/77. Front row: John Newman, Keith Glover, Noel Whittington, Bryan Clark, Theo Donnelly. Second Row-seated: Geoff Cosier, Bryan Marsh, Gwen Glover, Maroline Weatherley, Bette Marsh, Mrs Cook, Mrs Schenk. Back row standing: Don Cook, Arthur Kindall, Tony King, Harry Weatherley, Dick Whittington and Ray Schenk. Credits: Bryan Marsh, Kelvin King, TWR Guam.





Radio broadcasting in Hungary began on 1 December 1925. Although that was the beginning of regular broadcasts, experimental work had been going on for quite some time previously. There had been quite a serious tradition in the transmitting of music and news bulletins in Hungary.

As a matter of fact, it was the first country to make use of the Telephonograph, which began operating as early as 1894. It's inventor, the Hungarian Tivador Puskás later collaborated with Thomas Alva Edison. The Telephonograph, as its name indicates, was used for the transmission of news to subscribers on a local telephone-like line. It also transmitted musical programmes from the 4th floor of an apartment house at 22 Rákóczi Street in Budapest. This house was later to become the first set of studios of Radio Budapest.

Actual wireless programme broadcasting began in 1923, when the engineers of the Hungarian Experimental Post Institute first began radio telephonic experiments at the MTI - Hungarian Telegraphic Service - located in the heart of Budapest. In 1924 the experimental institute began attempts to receive foreign broadcasts with a one-tube regenerative set. Meanwhile, the amateur radio movement had begun to develop, though mainly in the obtaining of specialised literature and the reception of foreign stations. In 1925 the construction of PKI 2kw transmitter began on Csepel Island in Budapest. It was this station that began regular transmissions in Hungary. Initially Radio Budapest had 15,000 subscribers, the majority of them radio enthusiasts who had built their own receivers and even made the parts themselves. In a year, the number of subscribers had risen to 50,000.

In 1927 a new Telefunken 3kw transmitter was built at Csepel and daily broadcasts lengthened from 4 to 10 hours. Later that year the Post Office began to build a 20kw transmitter at Lakihegy. Lakihegy is also on Csepel Island, and is a spot chosen for its geographical location for broadcasting all over the country. Operation of the new transmitter, a Telefunken design, began on 7 April 1928. It had 3 stages - a cooling system of 2.5kw producing the base frequency, a modulator stage and a final stage which functioned with a water cooled tube of 20kw. The antenna was built on 2 150 metre high steel towers.

TO BE CONTINUED

A VISIT TO SINGAPORE & MALAYSIA

by Leigh Morris

During May of this year, my wife, 2 children and I holidayed in Singapore and Malaysia. On shortwave I found many interesting Indonesian stations in the tropical bands, and the higher frequencies tended to be open for much longer periods than in NZ. Broadcast band reception was dominated by several high powered Asian stations, and there was considerable jamming across the band. With frequent tropical thundershowers, reception was marred by high noise levels at times. DXing is not very popular in this area, but I did manage to meet a DXer in Kuala Lumpur and have an eyeball contact with a Citizens Band operator in Singapore.

I was unable to visit the studios of Radio TV Malaysia for security reasons. One has to make an appointment some months in advance to be taken through any government complex. (Most large factories, businesses and government buildings have security guards outside) At Kajang, 13 miles south of Kuala Lumpur city, RTM has a rather large transmitting complex. From the road, it appeared most impressive, with a giant rotatable log periodic antenna and another 6 aerials approaching 500 feet in height, as well as some fixed curtain array types. Malaysia begins colour TV transmissions in 1978, while Singapore has had colour TV facilities for some years now.

In Malaysia I visited one of the 4 Matsushita (National Panasonic.Ed) factories and saw batteries, airconditioners & washing machines being manufactured. I also visited the National display showroom at Wisma Mirama, Kuala Lumpur, where they had a very impressive sound acoustics lab. Cont. page 14

# Shortwave Mailbag with Tony Marr

13

Not such a large amount of mail this month, so do let us know what the postie has been pulling out of his bag. There are several reports of QSLs from KTWR Guam, so it is good to see plenty of interest in their test transmissions. The higher frequency bands should begin to pick up soon, so keep an ear out on 19, 16 and 13 metres as well as the lower bands that have kept us busy through the winter to date. Now, to see what QSLs have turned up;

AUSTIN HADLER Christchurch is first up with a good list, RSA 9585 IBA 15100 9412 9425 Pakistan 11885 15520 Bucharest 17830 SBC 11950 Cuba 9685 RAI 5990 7275 ORF 11950 Poland 11815 Sofia 6135 TWR Bon 15415 Vatican 11830 Saudi 9730 DW Malta 11705 RN 17700 FEBA 9700.

MASAMI ONIZAWA Japan is doing well with QSLs from RNE 6100 9505 Veritas 9645 RFE 15215 Santa Fe with 3 pennants Liberty 15130 RBI 17700 15115 Benin 4870 Cuba 9525 with a record LRX 11755 VOA Okinawa 7160 Iraq 9745.

IAN CATERMOLE Blenheim has his usual large collection, P2T9 9520 NHK 15430 11815 9525 Sweden 15120 DUR2 9580 FEBC 11855 6120 Peking 11650 15270 DW 11850 7130 Benin 4870 RBI 17880 BBC Ant 6175 Moscow 11850 9685 Warsaw 6095 11815 HCJB 6095 Andorra 6230 RN Bon 9770 RNE 6120 Seoul 9665 11860 9525 VOA 9670 Kuwait 15345 V.Hope 9670 AIR 11775 RA 7240 Apericida 5035 after 13 months. Very good.

DES DAVEY Te Kuiti has them in from VOG 9735 11905 FEBC 9580 NHK 17880 11875 RAI 9710, and 17 out.

JOHN MAINLAND Wellington has heard from Nicosia 7265 Tashkent 6025 KGEI 9555 ZK6 3265 P2K9 9575 Seoul 9720 FEBA 11755 11840 KTWR Guam 9505.

ARTHUR CUSHEN Invercargill has verified RCI 11845 DW Kigali 7225 Ant 5960 6085 Oslo 9590 RNE 9505 FEBA 11800 11810 11845 Budapest 7275 RCI 9535 RA 11705 6045 Lisbon 4865 TWR 5965 Bucharest 11735 RNE 9505.

JOHN ALLCHIN Auckland has 9 out, and QSLs in from VLM4 4920 P2K4 4890 RCI 11845 Guam 9575 Sweden 15240 plus a pennant Brasilia 15245 DZH8 11765 NHK 15310 HCJB 6130 VOFB 11860 RNZ 11705 also with a pennant. Yes, better luck on the next trip.

JACK SEARLE Haumoana has 14 away, QSLs from RNE 9505 6065 Sweden 15305 9695 Vilnius 15405 RN 9895 Finland 15265 Moscow 15490 D'Funk 7285 DZH8 11850 DZE9 11765 SBC 11945 Lagos 4990 RA 11705. Just keep on trying, I guess. Sri Lanka run late on the day of the full moon, and usually have good sigs on 60 metres past 1900GMT, and seem to verify fairly well on these transmissions, so maybe that might be another method of attack....Good luck.

HANS DE JONG Tasmania has veries in from RCI 9650 Moscow 9720 AIR 15285 RA 15410 RCI 11845. Thanks, but please put your ladders on a separate page.

LEIGH MORRIS Palmerston North has 9 out, and a loner in from FEBA 15280. More next month, I should think.

ALAN GILMOUR Greymouth has 10 out, QSLs back are DW 17780 11850 Ant 5960 AIR 11775. Ta.

BRYAN CLARK Wellington has 9 off, QSLs from Zaire 15350 Horby SSB 21680 RCI 11790 6140 Nicosia 7195 Oslo 9590 Guam 9505 9575.

BILL HUDDLESTON Auckland has 8 out, replies from Benin 4870 Sofia 7115 RN 15320 9895 Andorra 6230 Kuwait 9555 RNE 6100 IBA 12045 Oslo 6180 Sweden 11735 CBC 9655 Athens 9655 FEBA 11800 Lisbon 9740 Kiev 5980 Bangladesh 15410.

PAUL ORMANDY has 40 out, QSLs from SBC 6045 Togo 3222 HCJB11960 15375 9620 DW on 18 freqs Andorra 6230 RRI Sibolga 5260 SLBC 15425 in 6 days Lisbon 4865 Martinique 3315 FEBA 11800 11785 11845 Sweden 21680 SSB Chad 4904.5 RN Talata 21480 Bon 9895 BBC Cyprus 6180 Zaire 15350 15245 RCI 9655 9535 11845 5960 VOA Monrovia 15445 17870 Kavala 9740 Dixon 15270. Quite a list.

Radio NorthSea International



# Radio VERONICA 14

VISIT TO SINGAPORE & MALAYSIA

Continued from page 12.

DAVID FELDON Rotorua is next up, with 4 reports away, and QSLs in from WYFR 5985 VOA 15140 RA 11705 17860.

RAY CRAWFORD Invercargill has 6 back from AWR Sines 9670 NHK 15310 Budapest 6000 9665 VOFC 11825 Tunis 7275. Ta.

PAUL ARONSEN Invercargill has logged 8 and verified KGEI 15355 RAI 9710 7235 Sofia 7115 IBA 7412 Saudi 7110 VOFC 17890 VOA 17800 SBC 3985 VOG 7225 7130 3995.

JIM BENZONI Hamilton has 11 out, QSLs have arrived from DW 9535 17715 Moscow 7280 BBC Asc 9765 Iran 9022 for 90th country NBC 4890 Cairo 9805 Brasilia 11780 VOFC 11860 Oslo 15175 Korea 9665 RN Bon 9630. Congrats on the 90.

KEITH ROGERS Lower Hutt has sent 18 out, and had replies from Benin 4870 Thailand 9655 FEBA 9700 NHK 5960.

DAVID WEBBER Wellington is kept busy keeping his ageing receivers in good working order, and hasn't found time as yet to send any reports away. Here's hoping those receivers behave themselves, and let you put pen to paper at least occasionally, David.

MICHAEL POWER Brisbane has his first notes to us, and tells of 6 logs out, and veries from HCJB RN BBC SBC FEBC Moscow Vietnam RBI KGEI IBA PNG RSA DW Tashkent RA Peking AFRTS RNZ. Very good, and welcome. Let's hear more of your activities.

## BEST OF THE MONTH

### OVER 9MHZ

Sweden 21680khz 30kw SSB 102 pts

Bryan Clark and Paul Ormandy

### UNDER 9MHZ

Andorra 6230khz 3.5kw 115 points

Bill Huddleston

PAUL EDWARDS Wellington sneaks in with QSLs from DW Kigali 9565, Moscow 11720, 15180, 11850, P & P 11835, 11745, Haiti 11835 & RRI Banjarmasin 5970.

I tried out their National RF-8000 receiver and their latest DR-22 8-band portable. In Singapore there were some very expensive communications receiver -s available from Racal, Eddystone and Collins. In the lower price bracket, one could purchase a Drake SPR4 @ NZ\$ 710, a Yaesu FRG7 @ NZ\$210 or their FR-101 digital readout model @ NZ\$685. The latest Grundig Satellit 2100 portable sold for NZ\$300, and there was a full range of the popular CRF models. The Yaesu agent advised that there will be an FRG7 digital readout model available towards the end of 1977.

LEIGH MORRIS

ISWC POPULARITY POLL 1977 results were as follows - 1st Radio Nederland with 7259pts (1st in last poll 1974), 2nd BBC 4723 (2nd), 3rd VOA 2450pts (3rd), 4th Deutsche Welle 2358pts (improving from 5th in last poll), 5th Radio Australia 2237 (down from 4th), 6th Radio Sweden 1148 (climbing from previous 8th place) and 7th Radio Canada 1107 (down from 6th). Good ol' Radio New Zealand came in 41st with 45 votes for 'favourite SW broadcaster'. In 1974 they received the same number of votes but fell in 44th position in that poll. Via RA

OFFSHORE RADIO With test broadcasts from the old Radio Nordsee International vessel Mebo II being widely heard on 6205/6210kHz, member W.S.Lashley of Auckland has provided us with a well-timed brochure from East Anglian Productions, 7 Horsey Road, Kirby-le-Soken, Frinton-on-Sea, Essex CO13 0DZ, in England. This company sells LPs, books, photos, cassettes, jingle records and posters relating to offshore radio. Eg a double LP "10 years of Offshore Radio" @ UK£4.99 (double cassette £5.75), "The Radio Nordsee International Story" also a double LP or cassette at the same prices. A 7" EP disc of 100 jingles from offshore stations, including our own Radio Hauraki sells at UK£1.75 (or £2.50 for cassette). There are a lot of other items so it would be best to send for their illustrated brochure. All items have a 50p overseas postal surcharge and payment should be made by International Money Order.

## Radio CAROLINE

# SHORTWAVE BANDWATCH

coordinated by John Mainland



Of interest this month is a new frequency for Yaounde Cameroon on 4mHz; Bhutan is also noted on 4mHz with their Wednesday broadcast; Trans World Radio(KTWR) Guam began testing during mid-June and has so far been noted on 5 frequencies. Watch for them on regular broadcasts from 15 July. FEBA Seychelles are back on air after a short break due to domestic disturbances; they are now heard on a new 11mHz frequency. According to our Japanese friend Masami Onizawa, Voice of Indonesia has commenced broadcasts in Japanese.

TIMES IN GMT (12hrs behind NZT)

FREQUENCIES IN KILOHERTZ

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITIS
2370+	2035	UNIDENTIFIED	station weak with classical & operatic mx prgm and anncts by woman. Later talk by male anncr. Hrd at Goulburn NSW with Drake SPR4 & 600ft longwire beamed across Southern Africa. 2/7. Letter has gone to Falkland Islands enquiring!	JC/CM	
3195	1800	IRAQ	Baghdad fair in Persian in // to 6095.		BH
3223	1830	SWAZILAND	English gospel prgm.AC. (More details appreciated Ed)		DW
3223+	1043	INDONESIA	RRI Mataram fair in Indonesian. Ident, news.		
3227	0610	LIBERIA	ELWA int sig to s/on 0615.EE anncts every 10mins between vernac language changes. Good reception.		PE
3240	0536	PERU	Radio America very good with pops in SS.		PE
3243	1853	IRAQ	Baghdad here with Koran chants,gd.BC. 2100 Nx,fair Kurd.	DW+	
3265	1730	COOK ISLANDS	Rarotonga in EE fairly good. Faded out by 1825.	BjW	
3275+	1648	MOZAMBIQUE	Beira with ident,talks in vernacs,mx. Fair.	DW	
3277	2015	INDONESIA	RRI Jakarta on late with II mx and chants. Fair.	DW+	
3316	1915	SIERRE LEONE	Freetown fair with news in EE.	BjW	
3355	1859	NEW CALEDONIA	Noumea s/on with birdcall,Marseillaise,strong.	JB	
3345	1026	INDONESIA	RRI Pontianak with EE pops. Ident 1030.	PO	
3350	0550	GHANA	Accra GBC vernacs. EE nx 0600 poor, often.	PE	
3396	0458	NIGERIA	Kaduna fair with nx relay from Lagos 0500,then newspaper cmt. Kaduna prgm from 0510.F/out 0522.BC 0500 poor to fair EE nx.Hrd past 0520.Delete Rhodesia in last mths rpt.PE		
3925	0900	PAPUA NEW GUINEA	NEC with EE nx,good. QRM from JOZ Japan.	JB	
3945+	0943	NEW HEBRIDES	Vila with FF and EE songs.	BHJ	
3985	2100	SWITZERLAND	SBC with EE news to Africa //9535.	BH	
4680+	0550	ECUADOR	Radio Nacional Espejo fair in SS.Off abrupt 0557.	DW	
4690	1228	BHUTAN	NYAB chiming type int.sig at s/on,brief EE ident,then talk in vernacs & Indian-style mx. Audio lost around 1300 but carrier followed to s/off 1330. Wednesdays only. New freq ex 7040.TM tentatively the one with local mx & vernacs,weak 29/6.PE.(Victor Goonetilleke UADX in Sri Lanka reports a Vietnamese here too, so make sure identis are hrd. Ed)		
4719	0953	INDONESIA	RRI Ujung Padang fair.Tx break 1019.JS.1100 good id.	DW+	
4760	0444	SWAZILAND	TWR Afrikaans Svce fair past 0520. RIG prgms 28/6 only,usually blocked.PE. 0430 weak Afrikaans gospel prgm.	BC	
4770	0704	LIBERIA	ELWA good with BEC EE Nx,then rlg prgm.JS 0725 v.pr.	DW+	
4771	1645	INDONESIA	RRI Sibolga(tentative) fair under sideband of PLA 4770 to Taiwan.	DW+	
4775	0405	BOLIVIA	Radio Los Andes CP84 Tarija. Light mx prgm,s/off 0425, often hrd. Ident at s/off "CP diez y seis onda larga, CP ochenticuatro, onda corta, banda de sesenta metros, Radio Los Andes en Tarija, Bolivia"	PE	
4779	0855	SURINAM	Paramaribo still here,best signals ever 25/6. Gd-vg in Indonesian, later Dutch from 0929. Still good 0950.	BC	

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITIALS
4804	1943	KENYA	Nairobi	EE svce poor-fair right thru to s/off 2110.	BC
4806	2023			UNIDENTIFIED African station in FF 10/6 till f/out 2156, peaking fair. Id 2130 as "Ici --- (3 syllables)". Also 11/6.	BC
4807	2025			UNIDENTIFIED African 12/6 poor. F/out 2107. PE. Who were these?	
4815	0542			UPPER VOLTA Radiodiff. TV Voltaique in FF, poor level, often.	PE
4820	1940	ANGOLA	Radio Nacional	hrd past 2045, orchestral, PP. Clear.	PE
4850	0546	ECUADOR	Unid station	still here, s/off at this time 11/6. Location appears to be Loja. Over co-channel Clarin.	BC
4860	0150	USSR	Radio Moscow	EE service here again. Fair level.	BC
4860	0434	PERU	Radio Chincaycocha	at good level in SS. Indigenous mx.	JS
4860	0455	VENEZUELA	Radio Maracaibo	fair all night 26/6. Many idents.	JS
4870	0415	BENIN	Voix de la Revolution Populaire	FF s/on vg, one hour earlier than usual. Regular. PE. 0530 & 1900 in FF fairly good.	BjW
4875	1856	SOUTH AFRICA	Radio RSA	fair in PP, under CW interference.	BH
4875	0215	BOLIVIA	La Cruz del Sur	with frequent idents & orch mx. Fair, het QRM. BC. 4876a EE ident at 0333 s/off, poor. 1112 pr, het.	PE
4911+	1813	ZAMBIA	Lusaka	fair in EE. Ident 1816 then into vernacs.	DW
4915	1835	KENYA	Nairobi	7/6 fair-gd past 1900 with light mx and annc't in EE & Swahili that normal prgms will be resumed shortly.	PE
4925	1825	CAMEROONS	Yaounde	noted here since 27/6 with vg signals, possibly from new 100kw tx. EE nx 1830, ident 1845. Bad splash from ABC 4920 from 1850hrs. BC. 1830 new freq. EE nx. FF at 1845, fair. JM. 1821 National Svce in EE. Hrd past 1957. Fair.	PE
4935	0338	PERU	Radio Tropical	Latin mx prgm. Gd to s/off 0405 with ident.	PE
4940	0405	ECUADOR	Radio Nacional	vg with World Nx in SS. S/off abt 0415.	PE
4946+	1810	MOZAMBIQUE	Nampula	with ident, indigenous mx. Fair in vernacs.	DW
4970	0828	VENEZUELA	Radio Rumbos	vg with usual SS mx programming.	JS
4985	0105	BRAZIL	Radio Brasil Central	first Latin to f/in. Good by 0145.	BC
4990	1840	NIGERIA	Lagos	good in EE, regional commercial prgm. BH 1735 in EE fair. Somedays mixed with Russian.	BjW
4990+	1000	VENEZUELA	Radio Barquisimeto	poor with SS idents & music.	MO
5010	0435	CAMEROONS	Radio Garoua	fairly good in FF.	BjW
5010	0500	COLOMBIA	Radio Surcolombiana	fair at s/off 26/6.	AG
5020	1900	SOLOMON ISLANDS	Honiara	signing on, fairly good.	BjW
5035	0435	CENTRAL AFRICAN EMPIRE	Bangui	fair in FF.	BjW
5040	0430	PERU	Radio Libertad de Junin	fair at s/off 26/6.	AG
5962	0700	COLOMBIA	La Voz de los Centauros	fair. Annces freq as 6190.	AG
5970	1143	PERU	Radio El Sol	Lima poor with Latin prgms. Mixed.	PE
5980	0423	SOUTH AFRICA	Radio RSA	EE id, int. sig, Lozi from 0430. Poor due splash from BEC 5975. PE. 2230 weak in EE to Nth America.	BH
5990	0220	ROUMANIA	Bucharest	with talks, fair.	DF
6006	0950	COSTA RICA	Radio Reloj	fair all night.	AG
6045	0930	BRAZIL	Radio Clube Paranaense	fair from 0800 s/on. AG. 0853 gd.	BC
6045	1000	INDONESIA	RRI Jakarta	s/on following int. sig. Poor-fair.	BC
6045	0806	UNID	Latin	in SS twice recently. Sounded Mexican. Quite convinced I heard Panama mentioned in ident 0900 28/6! JS. 1110 unid Latin just above RRI 6045. Poor. PE. (Just to stir things along a Panamanian press report of 29/5 says "the national government may at any moment establish SW broadcasting so that its prgms can be heard in other countries. To this end, technical and other studies have been carried out" BEC MS. Ed)	
6050	1100	ECUADOR	HCJB	domestic svce s/on in SS. Poor, mixed USSR to Korea./	
6060	0925	ARGENTINA	Radio Nacional	Buenos Aires good from 0800 on. AG/JM	PE
6075	1110	COLOMBIA	Radio Sutatenza	exc in SS with LA mx prgm.	PE
6082	0920	PERU	Radio Nacional	fair with severe QRM from DW Antigua.	AG
6085	0959	ANTIGUA	DW relay	signs on with EE ident, then SS poor-fair.	JB
6115	0915	COLOMBIA	La Voz del Llano	fair signing on.	AG
6120	0913	ARGENTINA	Radio El Mundo	fair all evening. Wx news earlier.	AG
6135	1034	BRAZIL	Radio Gaucha	Porto Alegre good signals 14/6.	AG
6140	2115	GREECE	Athens	EE nx //9765, 9655. BjW. 15mins EE fair, 9655 gd.	JS
6150	0800	COLOMBIA	La Voz de Huila	fair on 19/6.	AG



FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITIALS
6150	0450	USA	WYFR	Family Radio closes with short EE prgm at 0500.	AC
6160	0826	COLOMBIA	Nueva Granada	fair,idents as "RCN". 0900 ident as "RCN, La Radio de Colombia". Very Good all evening.	MO+ AG
6180	1020	VENEZUELA	Radio Turismo	fair 20/6.	AG
6180	1158	ARGENTINA	Radio Nacional	Mendoza,national nx 1200 after id.	PE
6190	1040	VENEZUELA	Ecos del Torbes	very good from 0958 s/on.	AG
6205	1800	INTERNATIONAL	WATERS	Assumed Mebo II station off Libyan Coast back here after period on 6210. Now has frequent RNI jingles. Audible past 2230.EC. EE ident half-hourly.BJW. Prgm appears broken into 30min segments of different types of mx.PO 2130 vg with test prgm up to 2230 then deteriorates.JW. 6270. My report has gone to old Swiss address for RNI.	
7110	1650	POLAND	Warsaw	with domestic prgm in Polish. Fair 10/6.	JS
7130	0230	GREAT BRITAIN	BBC Skelton	with EE Sports Review, strong.	JM
7145	1945	MONACO	TWR Monte Carlo	,Polish rlg prgm to s/off 2000.Fair.	JB
7145	2000	POLAND	Warsaw	in EE for Africa. New freq, fair //7125.	JM
7170	1800	GREECE	VOA Kavala	with Special English news, good.	JB
7325	0515	GREAT BRITAIN	VOA via Wooferton	with news, fair.	DF
7412	0500	ISRAEL	Jerusalem	EE nx,fair.DF. 0507 Nx in EE, then in FF.	HdJ+
9022	1900	IRAN	Teheran	with English prgm, fair.	MO
9360	2300	SPAIN	Nobeljas(Toledo)	vg with mx prgm Panorama in SS.	JW
9425+	2009	ISRAEL	Jerusalem	in EE.Review of Editorial Cmt,Voices frm Israel.	Dwr/HdJ
9500	0710	ALBANIA	Tirana	very poor in EE.	
9500	0820	USSR	Radio Moscow	poor with RR Home Service //9605 & 9645.	JB
9505	2030	SPAIN	RNE Madrid	with EE Nx to Europe, good. QRM from Paris.	DW
9505	0720	CZECHOSLOVAKIA	Prague	fair with Interprogramme in GG. FF at 0730. EE news 0845.	DWR
9505	0840	GUAM	KTWR	Trans World Radio vg conducting equipment tests, dominant over NHK on 13/6 and 14/6 only.Dwr. 0900 Test tx in EE with anct interspersed with some orch mx. Hrd to 0909. Further test anct 0943. Fair over NHK,13/6.JM. 0900 EE test idents & tone tests 13/6.Gd but mxd NHK.EC. 0854 fair 14/6.FE	
9515+	0724	AUSTRALIA	RA Shepparton	with news in Brief and Mailbag.	HdJ
9515	0835	MALAYSIA	RM Kuala Lumpur	in Bahasa,fair. //9710 Penang,fair.	DWR
9520	2140	AUSTRALIA	RA Shepparton	strong in EE.New frequency.Nx 2200.	JB
9525	0740	CUBA	Radio Havana	fair-good in EE with pgm of local songs.	DWR
9530+	0436	BULGARIA	Sofia	fair in EE. Weekly International Review.	DW
9530	2300	SPAIN	Radio Nacional de Espana	with nx in SS, good.	DF
9545	0530	WEST GERMANY	DW Cologne	s/on in EE to Nth Am.Strong //9625, 6185 and 5960.	
9545	0730	SOLOMON ISLANDS	Honiara	fair with EE id. Not regular here?	JB
9555	0735	USA	KGEI	strong in EE "Golden Gate to Friendship". JJ 0800.	DWR
9560+	0659	SWITZERLAND	SBC Berne	with European Nx & SW Merry-go-round.	JB
9570	0500	ONAIRE	Happy Station	from Hilversum in EE Monday, fair // 11755. BH.(New frequencies? Ed.)	HdJ
9575	0903	GUAM	KTWR	Agana with tone tests & irregular idents, 18/6. Very good strength. Noted here again at 1023 on 28/6.Quick QSL. EC	
9579	0935	PHILIPPINES	Radio Philipinas	poor in EE. Dwr. (Not FEBC Dave)	
9580	1700	KUWAIT	Radio Kuwait	good in EE with pop music.	BH
9590	1000	MONTSEERRAT	DW Relay	fairly good in SS at s/on. BJW. SS S/on annces frequencies as ex Antigua.9735 exc,9590 mixed USSR.	FE
9600	0815	ASCENSION ISLAND	BEC Atlantic Relay	,World Radio Club on Sun. Poor, with co-channel QRM from RFI.	DWR
9625	1845	VATICAN	Vatican Radio	strong in RR.JB. 2055 fair in EE.Rlgn.	DW+
9625	2340	SWITZERLAND	SBC Berne	good to Latin America.	JS
9635	0840	SINGAPORE	Radio Singapore	fair in CC with Chinese Opera.	DWR
9650+	2045	KUWAIT	Radio Kuwait	in AA with ident & talk. Fair.	DW
9695	0900	AUSTRALIA	RA Shepparton	in EE to Asia.Sked to 1600. Ex 9545.	JM
9695	0230	SWEDEN	Horby	vg with EE nx, Panorama & Friday Report.	JW
9715	0240	ROUMANIA	Bucharest	,Roumanian for Nth.Am, fair ex 9690.	JM

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITIALS
9720	2300	USSR	Radio Vilnius	good in EE 24/6. Frequencies anncd at s/off. PE	
9730	0930	USA	UN Radio, Dixon.	VOA ids, CC to 0945, II to 1000, then EE. DWR	
9750	0935	MALAYSIA	Voice of Malaysia	good with news in Indonesian. DWR	
9770	2215	CYPRUS	Nicosia	Greek transmission to UK on Fri, Sat, Sun. AC	
9770	1015	CLANDESTINE	Voice of Revolutionary Party	for Reunification, presumably from North Korea. Fair in EE at 1000 s/on. Hrd intermittently since April, last on 11/6. Also hrd in PP after RN Bonaire s/off. SS at 0930. DWR	
9805+	2300	EGYPT	Cairo	good in EE with ident & "Cairo Presents" segment. DW	
11705	0628	GUAM	TWR test tx,	frequency anncd, hrd thru to 0723. Several test tones. Over RNZ & Paris co-channel. Poor-fair 17/6. JM 0645 tones & EE idents over NZ & France, good 21/6. FE	
11730	0200	GREECE	Athens	opens to North America. English at 0215. AC	
11765+	0910	PHILIPPINES	FEBC	Manila with Rex Hubbard Sermon and hymns. HdJ	
11785+	0307	UKRAINIAN	SSR Kiev	"60yrs anniversary of the Oct. Revolution". HdJ	
11790+	1200	INDONESIA	VOI Jakarta	with JJ prgm since 1 June. MO	
11833a+	1957	LIBERIA	ELWA	good with int. sig, EE, FF & AA ids, then AA prgm. MO	
11840	2030	SPAIN	Madrid	very poor in EE due VOA & RA. JW. 2200 EE // 9505. JS	
11845+	0306	CANADA	RCI Sackville	with 'From the Newspapers'. HdJ	
11845+	0455	BELGIUM	Brussels	good in FF with s/on 0500 and Nx to Africa. DW	
11855+	1823	SAUDI ARABIA	Riyadh	in FF with ident & talk. Good. DW	
11870	0800	USSR	Radio Moscow	with EE news, strong. JB	
11900	0410	SEYCHELLES	FEBA	back on the air with AA gospel prgm 2/7. New frequency ex 11845, fair. JM	
11900	0700	ECUADOR	HCJB	EE rlg prgms to South Pacific, good. JB	
11935	0515	PORTUGAL	Radio Portugal	with talk in EE, fair. DF	
11940	0710	ROUMANIA	Radio Bucharest	fair with Sports News. DF	
11945	1926	LIBERIA	ELWA	Monrovia in African langs. EE id 1948. Gospel pgms. BC	
11945	2145	SPAIN	RNE Madrid	very good with 'Panorama' in SS. JW	
11960	0505	ISRAEL	Voice of Israel	fair with news in EE. DF	
12055	0500	ISRAEL	Jerusalem	with Nx, Wx & Pre-Election debate. HdJ	
15115	1200	EAST GERMANY	Radio Berlin	International with news, fair. DF	
15120	1130	SWEDEN	Horby	very good in Swedish with nx and cmt. JW	
15120+	0652	NIGERIA	Lagos	s/on with chimes & drums etc. Id 0700. Poor. DW	
15155	0117	GUAM	KTWR	with EE test transmission, anncng frequency in use. Concluded 0159. Poor 19/6. JM	
15185	0200	SRI LANKA	VOA Colombo	EE Nx & Breakfast Show, good. RA splash. JB	
15260+	1306	FINLAND	Pori	with Sunday Letter Box and music 'Finlandia'. HdJ	
15265	1900	FINLAND	Radio Finland	vg in EE 15/6, // 11755. BH. 2030 in EE. AC	
15295	0700	MALAYSIA	VOM Kuala Lumpur	vg with mx. JW. 0802 Mx & talk, fair. DF	
15295	2300	ECUADOR	HCJB	EE id & frequency anncs, PP for Brazil, fair. JM	
15305	1100	SWEDEN	Radio Sweden	Horby good with Panorama prgm. JW	
15375	0050	MALAYSIA	BBC Tebrau	Hindi prgm to Sth Asia. New freq, replacing MW broadcasts from Masirah Is. knocked out by hurricane. 3/7. JM	
15425	0330	SRI LANKA	Adventist World Radio	poor in EE under Perth. BH	
17665+	0221	PAKISTAN	Islamabad	with news in Indonesian. HdJ	
17715	1030	HUNGARY	Budapest	EE weak to aust/NZ, also on 15160, fair. Bjw	
17830	0438	GUAM	KTWR	with EE test tx anncd. Noted to 0506 19/6. Poor. JM	
17890	2214	TAIWAN	VOFC	Taipeh fair in EE to s/off 2240. JS	
21610	2230	USA	VOA Dixon	strong with EE to Oceania to s/off 0000. JB	
21745	0740	USSR	Radio Moscow	excellent in Indonesian. JS	

CONTRIBUTORS: Thanks to newcomer DWR Dave Webber, also BH Bill Huddleston  
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 MO Masami Onizawa (JJ) AG Alan Gilmour AC Arthur Cushen HdJ Hans de Jong  
 PO Paul Ormandy ANOTHER GOOD MONTH'S DX. THANKS FELLAHS! (Tasmania)

# ARTHUR CUSHEN'S SHORTWAVE REVIEW 19

The temporary closure of FEBA in the Seychelles means that three Gospel stations in the African area have been closed in as many months. Signals on 49 metres are at their peak in the late afternoons, but most frequencies are blocked by Europeans and North American signals preventing the low powered Latins from being heard.

Bolivia: Radio Nacional Huanuni is being heard on 5965 to past 0600.

Colombia: La Voz de la Selva 6170 closes at 0355, is one of the few Latins coming through in the afternoons.

Cyprus: Continues to be heard testing on Friday, Saturday and Sunday 2215-2230 on 7195 and 9770.

Finland: Helsinki on 15265 gives good reception with English 2030-2100. Has also been noted on 11755 opening at 2200 with English at 2330-3255.

Germany East: RBI heard in Spanish at 0230 on 6010 6040 and 9615. English heard 0330-0415 on 9650 11840 and 11890.

Guam: TWR Guam has been heard testing on 9505 after 0927 when Japan leaves the frequency.

International Waters: Mebo 2 has been heard testing on 6210 from around 1900 to past 2100. Has popular music with English announcements each 30 minutes and also gives 9810 as the other shortwave frequency.

Masirah Island: The BBC medium wave relay stations on 701 and 1410 are both using 750 kw have both been put off the air by a cyclone. Two transmitters of 200kw for shortwave relays are being installed.

Portugal: Radiodifusao Portuguesa has English broadcasts 0300-0330 on 6025 and 11935; 0500-0530 same frequencies; 1400-1430 and 1600-1630 on 17895; 1800-1830 and 1700-1730 on 15340 and 17880; and 2030-2100 on 6025 and 9740.

Seychelles: FEBA Seychelles was closed by the new government on June 8 and has not been heard for several weeks. The station commenced operation on May 1970 and broadcast Gospel programmes in 18 languages to Africa and Asia and last year their mail passed 53000 letters. They were noted back on the air earlier this month on 11800 with English at 0400 and Swahili at 0445.

Swaziland: Swazi Commercial Radio on 3223 can be heard with English Gospel programmes up to 1900 then popular music, or a programme in an Indian dialect.

U.S.A: WINB indicates their transmissions are to Europe 1730-2000 on 17720 and 2000-2245 on 15185. To Latin America their new schedule is 2245-0100 on 15145 and 0100-0200 on 11730.

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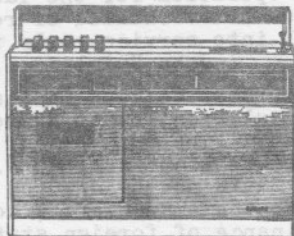
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# ..sign off..

BELIZE signs on usually around 1115hrs on its new frequency of 3285kHz.

DSWCI/Pitt McNeil via SDC

RADIO YUGOSLAVIA, with HQ in Belgrade, is to start broadcasting on SW shortly. Present plans are to broadcast in another 11 languages in addition to the 9 broadcast by Radio Belgrade's external service. Radio Yugoslavia will transmit "to all the continents", as well as provide special prgms in 9 Yugoslav languages for workers temporarily employed abroad. Future plans envisage broadcasts in 30 languages. The station's task is to "inform the world on the truth about Yugoslavia and its views with regard to world affairs."

BBC MS(c)

ANDORRA The International Service of Radio Andorra is now broadcast on Sundays only at 1000-1400 GMT on 6230kHz.

H-J Kurzen SCDXers

At RADIO RSA, the main talking point is the new 500kw transmitters & antenna installations which are reaching completion. Two of the new tx will take to the air on 6 November, at the commencement of the 11/77 schedule, on 17780, 11900 and 9585kHz. The antennae for Mozambique has been completed and are currently being used with existing 250kw outlets. There are 3 Telefunken 500kw transmitters altogether. The 4 250kw Brown Boveri units, which have been in operation for the last 11yrs, will then be overhauled or rebuilt and put back into service early in 1978.

John Mainland & BBC MS(c)

BRAZIL Further to last months front page speculation, Radio Nacional de Brasilia will be back on air next July with 5 250kw SW transmitters. The current tx is now being used for broad-casts to the Amazon area, to counter the dominance of foreign stations broadcasting to Brazil in PP. BBC WRC

AFARS & ISSAS became the Republic of Djibouti on 27 June. via Ginbey SCDX

ENGLISH FROM DENMARK Since 1/5, Radio Denmark has had a 30min prgm in EE on Saturdays, starting 13mins after the opening of their transmissions at 0900, 1200, 1400, 1600 and 1930. Frequency is 15165kHz in all cases. Reception reports are requested. Koie SCDX

## NEW ZEALAND RADIO DX LEAGUE

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All queries re membership, policy matters, stationery requirements, subscriptions & competition awards, should be addressed to Invercargill.

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Joining fee surcharge of \$1.00 for new members only. Overseas rates available from Invercargill.

RADIO EUZKADI, the Voice of the Basque Resistance, ceased broadcasting on 30 April, after 14 years of operation in Basque, EE and SS, from a transmitter believed to be in Venezuela. From 1946 to 1954 a station of the same name broadcast in Basque & SS from a site near Bordeaux, France. It first broadcast from Bilbao, Spain in 1937, but was closed down later that year when the Basque region was attacked by General Franco's forces. BBC MS(c)

RADIO COMORES, Comoro State; a new station and country name for the former French colony off the African coast near Madagascar. 3331 appears to be the only SW frequency. A new service "Radio Comores International" has EE 1600, FF 1700 and Swahili 1800-1900. Malgache and AA are to be added soon. GLDXA via Bob Hill SCDXers

## market square

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