



NEW ZEALAND DX TIMES

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Special Tests & QSL's from NHK

NHK Radio Japan are currently conducting tests transmissions through the facilities of Radio Trans Europe at Sines, Portugal. The General Service - news and commentaries in English and Japanese - is relayed twice daily for Europe and the Middle East as follows:

0700 - 0730 GMT on 9685kHz, and 2200 - 2230 GMT on 9670kHz. The first 15 minutes is in English, the balance of the transmission in Japanese. Both frequencies are audible in NZ, 9670 at very good level, but 9685 is heavily interfered by co-channel AFRTS Bethany Ohio 175kw.

Special verification cards are being offered for reception reports on these special tests, which conclude on 22 July. Write to: Overseas Broadcasting Department, NHK, Jinnan, Shibuya-ku, Tokyo, Japan.

Info via Ian Cattermole & John Mainland

Of plans and dreams

On 19 June the Broadcasting Tribunal began hearing 2 applications to set up a radio station in Oamaru. Radio Avon is proposing a mini-network Radio Aotea, operating 24 hours a day and linking Oamaru, Timaru and Ashburton, while Radio NZ is planning Radio Waitaki for Oamaru, followed by Radio Ashburton.

100,000 people would be covered by Radio Aotea's primary transmitter just south of Timaru, and 2 synchronised relay stations, north of Oamaru and west of Ashburton. Each centre would originate programmes thru the network, and Radio Avon would be relayed after midnight. Incidentally, Aotea stands for the coverage area - Ashburton, Oamaru, Timaru, and East of the Alps. For Radio Waitaki, Radio NZ proposes to have locally originated programming 6-9am, then link to 4ZB until the commercial networked "Tonight Show" takes over at 7pm till midnight. The YA programme will be relayed till 5am, then the Auckland-originated "Early Bird Show" is carried until Oamaru programmes resume at 6am. Local content would be increased later in the first year of operation, with further programming in the midday-2pm slot. Radio Ashburton would have a similar format, except that 3ZB and Radio Nova would be relayed between 9am and 7pm.

In his submissions, Radio Avon's Mr I. J. Kirkpatrick said RNZ's proposals would mean 4ZB was relayed most of the time. "This is in my view an unjustifiable use of the medium frequency radio spectrum which is a scarce national resource and must in the public interest be utilised in the most effective way". He also said that Radio Waitaki could not be justified in terms of coverage alone and this was confirmed by the Corporation itself when no provision was made for an Oamaru frequency during international negotiations in 1975. Mr Kirkpatrick asked the Tribunal for as low a frequency as practical if Aotea received the warrant as this would provide a wider coverage. 1360kHz would provide an acceptable signal up as far as Duntroon. 594kHz would take the signal into the Waitaki Valley as far west as Lake Aviemore, coverage 3 times greater.

Radio NZ attacked the Aotea proposal along the lines that Oamaru people 'looked to' Dunedin, and Ashburton people had greater links to Christchurch than to Timaru. Director-General Geoffrey Whitehead said that "Any tribunal approval for a regular private radio network - even on a local basis - would clearly open the way for an eventual private station network in either, or both, North Island and South Islands, ...cont. Page 2

CLOSING DATE FOR NEXT ISSUE: MONDAY 7 AUGUST at 12 NOON. LET'S HEAR ABOUT WHAT YOU HAVE BEEN HEARING, YOUR QSL'S RECEIVED, BEST OF MONTH ENTRIES, AND LADDER TOTALS. THE ADDRESS FOR ALL CONTRIBUTIONS IS P.O. BOX 2956, WELLINGTON. LET'S HEAR FROM YOU!

FROM THE BRANCHES

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SOUTHLAND The June meeting was held at Steven Greenyers with 10 present. Business included finalisation of a display in the National Bank, and a DX chat. Arthur Williams showed the second in a series of slides of his overseas trip, including Germany, Holland, Sweden, Denmark, Britain, and his return home via Singapore. The next meeting will be held at Sutton Burtenshaw's on 25 June.

Competition results: BCB Ray Crawford OAXIV 1465 1kw, merit to Steven Greenyer with Nuevo Victoria TIPJ 1225 5kw. Rest of the World - Sutton Burtenshaw Genoa 1578 50kw. SW Steven Greenyer SABC 3320 100kw, Eric McIntosh Grenada 15105 5kw.

NORTH OTAGO The June meeting saw 8 members present at the Listening Post, with 3 apologies. General Discussion centred on the Family DXcursion at Iona, with all arrangements finalised. The branch Open Day was held on 17 June, with the Juniors putting on an excellent display, and a lot of interest being shown by the visitors. Congratulations were extended to Paul Ormandy on his gaining 3 League BOM's last month. This month's collection includes Benin 4870, Sabah 4970, Radio Yugoslavia on SW, and KPRC Houston and KJJJ Phoenix on MW. The next Juniors meeting is on 29 June, next combined meeting on 20 July.

AUCKLAND 11 members turned out for the June meeting of the Branch at the NZART Clubrooms in New Lynn, and 7 apologies were received. After general business, Bryan Marsh gave reviews of 2 more receivers courtesy of Miles & Carlaw, Auckland - the Sony ICF-7600 and the National DR28, the digital readout version of the DR22, otherwise known as the RF2800B, and quite an impressive set. Plans are well advanced for the Branch DXpedition to Waiau Pa, with 2 large cabins booked for the weekend of August 5/6. Complete plans will be discussed and finalised at the branch's July meeting to be held on the 30th at 2pm. Further details can be obtained by phoning John Allchin 545879 or Bill Huddleston 818-3178.

WELLINGTON The July meeting will feature an explanation of mediumwave and shortwave reception techniques, including aerial tuners and receiver operation, by several branch members. The venue will be John Wysocki's, 8 McDonald Street, Taita (close to the Avalon TV Centre) at 8pm on Friday 28 July.

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continued from page 1... and such a development would substantially undermine the financial viability of public service radio."

13 year old League member Paul Ramsay made the local newspaper when he gave evidence at the hearing in support of a local radio station for Oamaru. The Tribunal's chairman Mr B.H.Slane congratulated Paul on his evidence and said that those people who condemn the present education system might like to take into account the force of Paul's arguments. Another interesting sidelight, giving an insight into public interest in the warrant applications, was the attendance of 9 people at a public meeting in Timaru called by Radio Avon to unveil their proposals for Radio Aotea!

- + Section 17 of the 1976 Broadcasting Act charges the Broadcasting Corporation of NZ to: "carry on public broadcasting services, and to develop, extend and improve these services in the public interest, and in particular to ensure that Radio NZ provides a radio broadcasting service as far as practicable for the whole of NZ". Accordingly Radio NZ is pushing ahead with current warrant applications for stations in Oamaru and Ashburton. At the warrant hearing, RNZ Director-General Geoffrey Whitehead outlined future plans as follows:

"Our plans for comprehensive and nationwide development, which will be submitted to the Tribunal progressively over the next 3 years, include the provision of some local community broadcasting in a number of centres in both islands. Among these are Alexandra-Cromwell, Queenstown, Gore, Picton, the Hauraki Plains and Levin, and this plan has already been approved in principle by the Standing Committee of Radio NZ."

"We aim at the same time to introduce in a complementary way, a second full non-commercial service, primarily the National Programme, to a number of centres including Central Otago, Timaru, Taupo and New Plymouth; a mixed community and national service to other areas such as Te Anau and Wanaka; and to provide a third service - the Concert Programme, to 4 more provincial centres."

"We have further plans of developing - in conjunction with a wide range of departments, organisations and community groups - a specialised network for minority programming, in which the 'common carrier' idea mooted by the Adam Report on Broadcasting can be furthered. This proposal... will be submitted to the Broadcasting Tribunal early next year." (Editor's note - the 'common carrier' approach proposed in the Adam report was for FM publicly-owned stations to be set-up, with interested groups producing and delivering programmes on a continuous or occasional basis.) Info from Paul Ramsay, Craig Strathern, "Oamaru Mail" and Radio NZ.

BROADCAST DX

--- por el personal necesario

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News from around the New Zealand scene shows that the 26 local community stations have recorded their first overall profit since the mid60's when television began. Mr. Geoffrey Whitehead, the director-general of Radio New Zealand, said during the month that significant contributions to the overall surplus had been made by many of the smaller provincial stations. He said Radio New Zealand could now fully justify small scale expansion, especially in rural areas without a primary radio signal, and in other areas waiting for a radio program choice.

A partial Concert Programme service for Southland, to be based in Gore, is being considered by Radio New Zealand. Implementation of the scheme would depend on the provision of finance from the Broadcasting Council and the granting of warrants from the Broadcasting Tribunal, Mr. Whitehead said.

The plan involved a mixed output station which would be part-Concert Programme and part-community radio. It was based on the successful experiment which had operated in Hastings for the past 18 months. It was hoped to start work on the Gore station in the next financial year.

A new educational and cultural station now being built is 2WEB at Bourke, NSW with a planned coverage of 200km around Bourke. The station will be based at the local high school and will operate on 580kHz with a power of 2kW. The frequency will change to 576 in the November frequency changes. The first tests are due to begin in July. The address is P.O. Box 594, Bourke, N.S.W. 2840, Australia.

Radio Yesterday have reports numbering 60 in response to the special broadcasts made on 1260kHz. A special QSL card is at present being printed.

J. CAMPBELL.
TONY KING.

Radio Active, Victoria University, have applied for another short term broadcasting warrant in the period 19 August-2 September.

GARY LEWIS.

The call sign of the new commercial station for Woolongong, NSW is to be 200. The station is expected to open in October. Frequency is 1370kHz.

A. CUSHEN.

Now to dip into the mail-bag and see what our members have been up to during the last month. First out is;

JOHN CAMPBELL, Newcastle, NSW, who has some 10 reports out lately and has QSL's from 2ZG, 2ZP, 6GE, KAGT, KIRO and Caymans 1555. Tnx John, writing soon.

ROBIN CHAMBERS, Opunake, has reports out to 2SM, 2EA, 2WN, 6WB, XEVOZ. the mail only brought in 2EA. Condx poor here too.

ALAN GILMOUR, Greymouth, has reports out to KVOO, KUAM, KEEN, WVUV, 4ZA-E, 1XC, and Fiji 640. Verifications to hand from KOA, KVOO, KGIL, KUAM, WVUV, 1XC, 4ZA-E and Fiji 1470. Tnx.

CHRIS MARTIN, Sydney, NSW, for a change has no reports out but veries have come in from WTAI, KSRO and KGO. A change to have a quiet month, hi!

SUTTON BURTENSHAW, Invercargill, is also very quiet just now and only reports a lone verie from Genoa 1578.

DENE LYNNEBERG, Wellington, has reported RRI Sumenep 1098 and received veries from KFRO 1370 and Iran 1566 with no site and power given.

PAUL EDWARDS has QSLs from HLDA 1570 and Rebelde 590 with pennant (after 1 1/2 years.

PAUL ORMANDY, Camaru, has logs of KPRC, 2ZP, 1ZB, 2BE, 2NM, 5MU, KWKH, 1ZK/N, 2BN 540 ? QSL's in from 7FG, KPRC, 2ZP, KJJJ, 4ZA-E, 1XC, Hanoi 803.

CARLOS DA SILVA, Sao Paulo, Brazil, has reports of WGBS 710 and WABC 770, both heard between 0500 and 0800 GMT. Hope we'll hear from you regularly, OM.

G. AGNEW, Auckland, has reported 2GB, 2KY, 2ZM, 4XO, 7LA, 2GN, 1ZB, 1XX, 2ZB, 2UE, 1ZH, 3DB, 7HT, 2ZP, 1ZN/ZK 1010, Verifications are to hand from 1ZB 1070, 3NE, 3XA, 2UW, 2XW, 2NZ, 2SM, 2ZP, 1XW, 2ZG and 1ZN/ZK 1010. Thanks for the notes.

RAY CRAWFORD, Invercargill, has reports of Radio Lemas 1385 and a tentative to R. Cosiguina 1470. Veries in from Sullana 1465, Gorokhpur 910, Morrocco 936 and 1115 for country 151. Also a second from Austral 1540.

STEVEN GREENYER, Invercargill, has one lone verie in Nueva Victoria 1225. Fine.



Midnight Sun BROADCASTS, INC.
KFAR-TV
AM
BOX 918
FAIRBANKS, ALASKA
99707



RADIO AUSTRAL

TUQUERRES — NARIÑO

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MAILBAG CONTINUED:

ERIC McINTOSH, INVERCARGILL, has reports out to 2ZP, 1ZB, 4RK, Calidad 1230, KPOI and KHVH, Singapore 790 and Noumea 1260. Veries to hand from 1ZB, 2ZP and KHVH. The Drake must be feeling better, hi!

BOB HOMEWOOD, Auckland, has reported the following 1ZB, 1XW, 1ZC, 1Z0, 1ZA, 1ZU, 1XI emergency, 2ZE, 2ZD, 2ZK, 2ZW, 2YD, 3ZC, 4GY, Fiji 560, VOA Thailand 1580, and KUAM. QSL's in from 1ZB, 1ZN, 1ZH, 1XW, 1XI, 1Z0, 1ZC, 2ZE, 2ZD, 2ZK, 2ZW, 3ZM and Cook Islands 600. Tnx.

NEVILLE HENRY, Dhahran, Saudi Arabia, has logs of Iran 1555, 1116, Ras al Khaimah 1175, Qatar 995, Bahrain 1485. Tnx for the 'hot' news. Salom.

ARTHUR CUSHEN, Invercargill, has reports to Mundial 1370, XECO 1380 and Noumea on 1260. One verie in from MIOX. Nice.

BRYAN CLARK, Wellington, is still trying to catch up on last month's reports and has veries in from WOKB 1600, Caymans 1205 and Huancavilca 605. Great.

STUART FORSYTH, Christchurch, has sent reports to 3Z0, WVUV, 2GD, 3LO, 2NG. Veries to hand from 4IP, 2NC, 4GY, 2YB, 4YA, 4YC and PJB 800. The new aerial should help.

MARK NICHOLLS, Auckland, has one report away to 2UE and veries from 4X0 and 2NZ. Keep that receiver running, hi!

JOHN ALLCHIN, Auckland, has reports out to 4AM, KUAM and Calcutta 1130. The postie left 6PR, KFI, KEYS 1440, KIKI, KBOI with IRCA Commemorative QSL, PJB, KFRO, Caymans 1555 and WOKB. Great.

IAN CATTERMOLE, Blenheim, has reported 1ZE/ZN, 2RG, 4CD, 4MB, 4JK, 4SO, 4GM, 4MS, 5MV, 7FG, JOBK, Fiji 810, 2NU and DXLL. Veries from 1ZE/ZN, 2NB, 4CD, 4JK, 4NA and 7FG.

PAUL RAMSAY, Oamaru, has reported 2ZB, 1XX, 4X0, 1ZB, and 2YD. Replies have come from 1zb 1070/71, 2ZC, 1ZC, 2YM, 4X0, 1ZH, 2ZN, 1XW, 2ZM and 1ZM. Thanks for the notes. Report often.

JACK SEARLE, Haumoana, has two veries in from KHVH 990 and Caymans 1555. Fine.

PAUL RAWDON Eastbourne has QSL'd 4SO & VL2NI. Reports to Iran 1566, VL2NI and 4SO. Just made it Paul!

PEACE RADIO.

1538 kHz still announces 1540 in jingles and IDs, however I have measured the frequency using RF Coms Synthesised Rx, it is confirmed that the station is transmitting on 1538. Programme format. News on the hour in various languages. Jingle ID every half hour. IDs are infrequent at other times. Mainly British announcers are used for a basic pop music programme. N. Henry.

BEST OF THE MONTH

SENIOR. B.Clark. Radio Caymans. 1205 kHz. 1 kw. 164 points.

JUNIOR. S.Greenyer. R.Nueva Victoria. 1225 kHz. 5kw. 142 points.

News from KWAL 620 kHz, that it was not their station heard at Convention. A. Nallawalla.

ARGENTINA. R. Splendid on 1230 will change its name to R. San Martin, the call sign will remain the same. BBC MS.

BRAZIL. R. Gaucha Porto Alegre has announced its new MW transmitter on 680 kHz is 100 kw. BBC MS.

VENEZUELA. The Venezuelan Information service Venpres has reported that 1000 kw station with the largest coverage in L.A. will be set up in north west Venezuela. BBC MS.

SUDAN. Omdurman Radio will begin a fourth radio channel on 764 1200-2200 once studios have been completed and equipment imported. The channel will be used for the Voice Of The People broadcasting services and will include local news and commercials. EE and FF will be introduced July 1979. BBC MS.



EVENING.

590 CMW good 0520 20/6. RCh.
 900 XEW good mixed 4YC 0535 "
 990 XET strong 0540 20/6 "
 1034 CSB2 good 0540. "
 1190 SS over KEX prob. Mexican "
 1270 KIOX good off 0500. RC
 1320 KXYZ good 0515, fair 1010 RCh
 1370 SS Fair 0450, "
 KEEN good news 0803 "
 1380 XECO fair 0435. "
 1385 R. Lemas off 0500. RC
 1390 SS here with sport 1005 -
 1010 on 23/6 RCh
 1430 SS over 2ML, Venezuela ?
 R. Colvetica ? "
 Also Mexican poor on ENE. "
 1440 R. Ah Ee, XEAI good ID-0425 "
 1450 SS good Venezuela? R.Conansula
 or similar 0954-1002 RCh
 1470 XESM fair 0435. "
 1475 Tenative R.Cosiguina off
 0427. RC
 1530 R. Onda good 0440 20/6 RCh
 1578 SS station 1015-1023 "
 1590 XEVOZ R.Voz good 0445 "
 KIKN good ID over Mex 0458 "
 1600 ? Jazz fair 0420 US? "

MORNING.

610 KUAM good 1900. RCh
 620 Cairo good 1915 "
 755 Arabic fair 1915 "
 818 Cairo excellent 1855 "
 1034 RR good 1905. "
 1061 Diyarbakir good in clear
 1845. "
 1070 6WB good 1900-1915 when
 2RG signs on. "
 1088 RR excellent "
 1124 Libya good 1840. "
 1223 Bulgaria good 1900. "
 1232 RMC Cyprus in FF and pop
 songs stron 1920. "
 1259 VOA Rhodes AA strong 1850 "
 1286 Israel good 1800. "
 1412 Masirah AA good 1915. "
 1475 Austria fair 1845. "
 Iran? fair chanting 1913. "
 1580 FEN fair news 1800-1805 "
 ID as Information Radio
 and Far East Network. "
 1594 RR here 1828 with Majak
 int, signal. "
 Credits. RCh. Robin Chambers.
 RC. Ray Crawford.

AUSTRALIA...

2BE on 750 signs off at 1406
 2CT on 1390 is on air 1930-1130. The
 address is P.O. Box 68, Campbelltown, 2560,
 NSW.

2EA has introduced an international service
 on 800 and commences at 1730 in Turkish
 designed for Turkish taxi drivers. DX POST

PAPUA NEW GUINEA...

Frequencies to be observed at the 23 Nov
 frequency changes are; 675 Lae, 675 Wewak,
 810 Rabaul, 864 Madang, 900 Goroka and
 585 Port Moresby. WRH NEWSLETTER

THAILAND...

A new station at Ranong was opened on 30
 April. Operates on 1600.

The Thai Broadcasting Control Board has
 authorised the 'Ko Wo So' station in Surin
 to change from 1350 to 747 on 23 November.

Permission has been granted to shift the site
 Bangkok station on 1000 to Udon Thani.

The 25 stations under control of the Army
 Signals Corps have been authorised to
 broadcast 2200-1900. BBC-MS

SUDAN...

Omdurman Radio announced that the Voice of
 Music would begin broadcasting on 24 May '78
 S/off is at 2000. News summaries on the hour
 every hour. BBC-MS

SRI LANKA...

The new TWR station on 890 at Putallam
 has been observed testing. The SLBC station
 at Diyagama has moved from 890 to 870. UADX

IRAN...

R. Bandar e tingeh is now using 1116 with
 2 x 125 kW. EE at 1900. NRC

A new station has been noted on 605 in Farsi.
NRC

IRAQ...

Voice of the Masses is carried on 692
 02.58-2100. 908 1800-2305, 1035 1330-1755
 and 2000-2305. NRC

LIBYA...

A foreign language program in EE and FF is
 carried on 1406 from 1410-1600 and 1600-1828.
NRC

CAMBODIA...

The Home Service has been observed on 720
 as well as 918 NRC

AUSTRALIAN POSTAGE rates to NZ from 1/7
 are 30 cents airmail, 25 cents sea.BC

CALL SIGNS UNDER REVIEW

2UW has applied to the Australian Broadcasting Tribunal to change its call sign. Granted approval, the station will use the sign W110 (pronounced W double one 0) as its main identification. It will also use 2UW.

The station manager believes the position on the dial is more important than the call-sign itself and thus the proposed W110 would automatically identify 2UW's position. This type of sign, using the last call-sign letter and adding frequency, is a trend among American stations. The '2U' is seen as being unnecessary and a cause of confusion between 2UW and 2UE, and the change would be an image building process for 2UW says the station manager.

2GB's general manager said his station was not considering any change at all and "you can't call yourself anything but what you are anyway".

AWA network manager says 2CH would have to move out of Sydney if it changed its call-sign, as it means City on the Harbour. So it would definitely change its call-sign.

The matter has been discussed at every level at 2SM, says the general manager, however because the '2' must be maintained one might come up with some strange combinations. He says it is a matter of what you can do with the other numbers.

2UE adjusted its call-sign from 2UE 950 to Sydney 95 2UE at the end of last year and does not have any intention to change to the American style sign says the manager.

It is believed 2KY will change its call-sign, although nothing definite has been decided on at this stage.

The last figure of all the station's frequencies is likely to change when frequencies are moved toward the end of the year to meet international standards - spacing of 9kHz instead of the present 10kHz apart.

At the recent convention of the National Association of Broadcasters it was predicted that future emphasis would be on international developments in broadcasting, television and communications.

It was observed that stereo AM transmission with new transmitters and audio processors, properly handled, might be the answer to an over-crowded frequency spectrum. The topic was widely discussed at the convention, with leading broadcasters and the Federal among its adherents. At previous conventions FM always was looked upon as the answer to overcrowding. (From a report in B&T)

2KA Katoomba started broadcasting 24 hours a day, on May 15, following the start of its 250 watt translator at Emu Plains. (Translator frequency 1480)

Gordon Lewis, 2KA's general manager, said the initial response to the station's switch to 24 hour broadcasting and opening of the Emu Plains translator had been excellent, particularly with talk-back calls, which had jammed the station switchboard on the morning show. The coverage area contains a population of nearly one million.

7EX has bounced back to the top spot overall in Launceston radio. The latest Launceston survey by McNair Anderson show 7EX with 40.3%, 7LA 32.4%, ABC station 7NT 17.7%, 7SD 5.6% and 7AD 2.1%.

7AD, Devonport, about 60 miles from Launceston, and 7SD, Scottsdale, 40 miles away are within reach of a considerable part of the northern Tasmanian radio audience. The survey was held over two weeks starting April 30 last.

2BE reports that it has boosted its potential audience by 15 000 to 50 000 with the opening of its translator station at Moruya. The station claims it is the first 'low-power repeater station' licensed under amendments made to the Broadcasting and Television Act last year.

Initial frequency is 750 kHz and power is 500 watts using a two-tower directional aerial system. The frequency will change to 765 from November 23. The station has introduced a twice daily Canberra news bulletin at 7.55pm and 12.55pm, AEST, Monday to Friday.

N.Z. FREQUENCY PLAN 1978

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An update of the list which first appeared in the September 1977 DX Times, this differs only in respect to the frequency for 2ZK, and additional listings for new licence holders Radio Rhema and Radio Manakau. These channels are effective 23 November 1978.

567 2YA Wellington ex 570	954 1XW Hamilton ex 930	1260 3XA Christchurch ex 1290
630 2YZ Napier(Opapa)unchanged	963 3YC Christchurch ex 960	1278 2ZC Napier ex 1280
639 4YW Alexandra ex 640	981 1YE Kaikohe ex 970	1296 1ZH Hamilton ex 1310
657 2YC Wellington ex 660	1008 1ZD Tauranga (Paengaroa)	1314 2YW Gisborne ex 1180
675 3YA Christchurch ex 690	1026 1ZK Kaitaia & 1ZN ^{ex 1000} Whangarei synch ex 1010	1323 3ZM Christchurch ex 1400
720 4YZ Invercargill unchanged	1035 2ZB Wellington ex 980	1332 1XI Auckland ex 1330
747 3ZA Greymouth(Kumara) x750	1044 4ZB Dunedin ex 1040	1341 2ZN Nelson ex 1340
756 1YA Auckland ex 760	1053 2ZP New Plymouth ex 1050	1350 1ZC Rotorua unchanged
765 2ZK Hastings(Opapa) ex 730	1080 1ZB Auckland unchanged	1386 1ZT Turangi ex 1390
783 2YB Wellington ex 800	1098 3ZB Christchurch ex 1100	1413 1ZO Tokoroa ex 1420
810 4YA Dunedin ex 780	1116 2YX Nelson ex 1150	1431 4XD Dunedin ex 1430
819 1YZ Rotorua(Paengaroa) ex 860	1134 4YQ Queenstown ex 1120	1449 2YM Palmerston North ex 1410
837 1YX Whangarei & 1YK Kaitaia synchronised ex 830	1143 1YW Hamilton ex 1140	1458 3YW Westport ex 1460
846 2ZD Masterton ex 840	1152 3ZC Timaru ex 1160	1476 1XA Auckland ex 1480
864 4ZA Invercargill ex 820	1161 2ZM Wellington ex 1130	1485 3ZO Twizel ex 1550
882 1YC Auckland ex 880	1197 2ZW Wanganui ex 1200	1494 1ZA Taupo ex 1500
891 2XW Wellington ex 890	1206 4XO Dunedin ex 1210	1512 1ZU Taumaranui ex 1520
900 4YC Dunedin unchanged	1215 1ZE Kaikohe ex 1220	1521 3YR Reefton ex 1510
918 3YZ Greymouth(Kumara) x920	1242 1XX Whakatane & synch repeater at Murapara x1240	1539 2ZE Blenheim ex 1540
927 2ZA Palmerston Nth ex 940	1251 1ZM Auckland ex 1250	1557 2ZH Hawera ex 1560
945 2ZG Gisborne ex 1060		1576 Rhema, Christchurch ex 1570
		1593 Manakau, Auckland ex 1590

Thanks to Arthur Cushen for above info.

FUTURE PLANS - A SPECULATIVE VIEW

The recent announcement of a \$300,000 surplus for Radio NZ in 1977/78, following losses of nearly \$1 million and \$2.8 million in the past 2 years, will give impetus to the organisations plans for the future. In his Oamaru submissions (see page 1), Director-General Whitehead said that while there was no capital expenditure on radio by the BCNZ in 1977/78, the ratio in 1978/79 would be 15% radio to 85% TV. He also gave broad details of initial plans to extend radio coverage in a 4 year development plan. The achievement of near-total primary coverage appears to be a major consideration. In a recent newspaper interview, Mr Whitehead was quoted as saying that RNZ stations presently reach only 76% of the country - far less than TV1. It seems that these statistics apply to area, for the 1973 Adam Report states that 99.5% of NZers had coverage by at least 1 television channel, and 98.9% were covered by some radio programme at least to the ½mv per metre level.

A frequency allocation plan produced by the Post Office gives some clues as to the final extent of such coverage, with 9kHz channels allotted to such places as Oban (Stewart Island) and the Chatham Islands. On the other hand they may simply be an exercise in frequency protection! The listing does show a concert programme outlet at Mahia, synchronised with 3YC on 963kHz, a Dargaville repeater in synchronisation with 1ZE Kaikohe 1215, a national programme synchro at Taupo in tandem with 2YW Gisborne 1314. This latter entry confirms the plan that present part commercial/part national programme outlets (like 1ZA Taupo) will go fully commercial once a separate national programme transmitter is operational. Finances permitting, it seems many of the 50 plus vacant channels after 23 November will be occupied in the next few years!

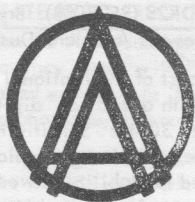
ALL INDIA RADIO Plan of Frequencies

to take effect 23, 11, 78.

New	Old	Location	New	Old	Location	New	Old	Location
531	530	Jodhpur-A	*918	*920	Suratgarh	1296	1160	Darbhanga
540	540	Ai Jawal	927	930	Vishakhapatnam	1305	1300	Parbhani
549	560	Ranchi-A	936	940	Tiruchi-A	1314	1310	Bhuj
558	550	Bombay-B	954	950	Nazirabad	1314	1350	Cuttack-B
567	570	Dibrugarh	963	960	Jalgaon	1323	1320	Calcutta-C
576	580	Alleppy	972	970	Cuttack-A	1332	1330	Tezu
585	590	Nagpur-A	981	980	Raipur	*1341	*1490	Kohima-B
+594	590	Calcutta(Ext sce)	990	990	Jammu-A	1350	1350	Jullundur-C
603	600	Ajmer	999	1010	Coimbatore	1350	1160	Dharwar-B
612	610	Bangalore-A	1008	1000	Calcutta-B	1359	800	Bhadravathi
621	620	Patna-A	1017	1020	Delhi-B	1368	1370	Delhi-C
630	630	Trichur	1026	950	Allahabad-A	1377	1380	Hyderabad-B
639	640	Kohima-A	1035	1030	Gauhati-C	1386	1390	Gwalior
648	650	Indore-A	1044	1040	Bombay-A	1395	1330	Bikaner
657	670	Calcutta-A	1053	1050	Lah	1422	1420	Rajkot-B
*675	*660	Itanagar	1062	1060	Passighat	1431	1230	Chandigarh
675	1050	Bangalore-B	1062	1070	Pondicherry	1431	1090	Calicut-B
684	680	Calicut-A	+1071	1070	Rajkot (Ext sce)	1440	1500	Kanpur
684	680	Port Blair-A	1089	1540	Jammu-B	1440	1400	Ahmedabad-B
693	690	Rajkot-A	1089	1080	Udipi	1449	1440	Port Blair-B
702	710	Jullundur-B(Urdu)	1107	1110	Gulbarga	1449	860	Sambalpur
711	700	Siliguri	1116	1120	Srinagar-A	1458	1470	Bhagalpur
720	720	Madras-A	1125	1170	Udaipur	1458	1470	Mangalore
729	730	Gauhati-A	+1134	1130	Calcutta9Ext sce	1467	1460	Jeypur
738	740	Hyderabad-A	1143	1100	Rohtak	1476	1480	Jaipur-A
747	760	Lucknow-A	1143	1140	Ratnagiri	1485	1200	Bhopal-B
756	750	Jagdalpur	1152	1230	Ranch-B	1485	1420	Allahabad-B
765	1360	Dharwar-A	1161	660	Trivandrum-A	*1485	*1500	Baroda
774	770	Simla	1170	1220	Hyderabad-C	1494	1170	Trivandrum-B
783	1550	Madras-C	1179	1180	Jabalpur	1503	1490	Srinagar-B
792	790	Pune-A	1188	1190	Bombay-C	1521	1520	Aurangabad
801	820	Rewa	1197	1200	Shillong-A	1521	1530	Tawang
819	810	Delhi-A	1197	1220	Jodhpur-B	1530	1530	Mathura
828	880	Silchar	1197	1200	Tirunelveli	1539	1540	Panaji-B
828	880	Panaji-A	1215	1570	Delhi-D	1584	1270	Jaipur-B
837	840	Vijaywada-A	1224	1200	Srinagar-C	1584	1590	Indore-B
846	850	Ahmedabad-A	1224	1220	Calcutta-D	1584	1150	Madras-B
+864	*1090	Shillong-B	1242	1240	Varanasi	1593	1440	Bhopal-A
873	870	Jullundur-A	1251	1250	Sangli	1602	660	Nagpur-B
882	920	Imphal	1260	1260	Ambikapore	1602	1230	Pune-B
900	1060	Rampur	1269	1270	Agartala	1602	1500	Patna-B
909	910	Cuddapah	1278	680	Lucknow-B	1602	1400	Mysore
		Gorakhpur	1287	780	Chatarpur	1602	1480	Tiruchi-B
		+ 1000kW transmitter sri omitted; 1503	1500	*New stations Vijaywada-B				

Tnx to DX Digest for this list.
Also to Adrian Peterson for his advice.

~ aramco ~



~ radio ~

9

ARAMCO RADIO DHAHRAN. 1380 kHz, 1480 kHz, and 2 STEREO V.H.F.

When living in Saudi Arabia, one tends to become choosy with the Radio Programmes that one listens to.

After 5 months of listening to some of the local Arabic Stations I have been firmly convinced that it is high time they changed the 'record' as to me all that Arabic music sounds the same. However living in Dhahran has the big advantage of being able to listen to Aramco Radio. Out of curiosity I recently paid a visit to the station and was kindly shown around by Frank Skorpinski, the station Engineer who as it turned out was formerly the Engineer at WVUV in American Samoa.

In somewhat cramped quarters, Aramco Radio runs 4 separate exclusively music programmes, Easy Listening, Pop, Country and Western, and Classical, 24 hours per day. All 4 programmes are transmitted on Stereo V.H.F. while the Easy Listening and Pop programmes are also aired on 1480 kHz and 1380 kHz respectively, in Dhahran. There are also V.H.F. and M.F. relay stations in Abqaiq and Ras Tanura.

In the studio, each channel uses 4 separate Tape Recorders each of which is capable of playing up to 6 hours of continuous music. Four minicomputers select which recorders will play at any time, so switching from one recorder to another, there is a good variety of different music and Artists. The tapes are pre-recorded in a small studio, from a library of several thousand records. The Saudi Government does apply restrictions on Aramco Radio, as to the record that may be played, for instances no Jewish records, Records connected with Israel, some Christmas carols, all Christian religious music and records produced by R.C.A. But however, that still does leave a good choice of music.

The only times when there are announcements on the programmes are at 0900 GMT and 1500 GMT, when there are news bulletins.

Technical details now, The 2 M.F. transmitters are Gates types, rated at 500 watts output. Both transmitters are connected to base loaded vertical antennae 120 ft high. No details are available on the V.H.F. transmitters except that they are 1 kw and stereo FM, 75 kHz bandwidth.

In addition Aramco Radio also runs a recorded Arabic music programme for transmission by line to selected locations, and 1 T.V. channel. At present the T.V. channel is on the American 525 lines system, but is in the process of being converted to the P.A.L. 625 line colour system.

Frank Skorpinski said that Aramco Radio does verify reports, so good DX.

Neville Henry. Dhahran.

Oamaru Junior DX League Only One Of Its Kind In NZ

radio stations, confirming the reports.

Recently the Junior Section held an open day at the St Lukes Church Hall to celebrate its first birthday.

The only difference about the section from other groups is that it is the only one of its kind in the NZ Radio DX League. During the past year we have done various projects such as making crystal sets, having contests, reporting stations, starting a small library, but one of the biggest things yet undertaken was a "bikeathon" from which more than \$30 was raised. Switch on! DXing is a rewarding hobby.

via PG

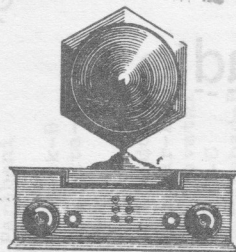
The following article, by Paul Ramsay of Oamaru, appeared in the Oamaru Mail of 4 July, and received special mention from the paper.

"The Junior Section of the North Otago branch of the NZ Radio DX League is for children between the ages of 10 and 13 who are interested in the hobby of DXing, which is listening to and reporting radio stations you hear on the radio. If these reports are correct, colourful cards (QSLs) or letters of verification are issued by the

EQUIPMENT REVIEW

NATIONAL DR28 (RF2800B)

Bryan Marsh recently had the use of this new receiver, courtesy of Auckland Duty Free store - Miles & Carlaw Ltd. Here is his report:



"The best of the National Panasonic direct readout range was a real pleasure to use, with a 'spot-on' digital frequency readout display covering FM, MW and SW 1.6 to 30MHz. Sensitivity was good, with strong stations being received without the built-in telescopic antenna being extended. Use of external antennae increased readability of weak signals (but so far in all my receiver appraisals, I have not found one better than my old Eddystone 680X!). The selectivity was on a par with National's earlier DR22 model, but better than the DR48 table model receiver. With a first IF of 2MHz and second IF of 455kHz, the only fault found was a hefty first IF image of Radio Australia 21680 showing up on 17680kHz. Also, because of my closeness to Radio Hauraki's transmitter, reception of 2YA on 570 MW was ruined with the 455kHz IF. Medium wave reception was quite good.

Controls were very well set out. The two-speed dial tuning was particularly good. The fast mode takes $4\frac{1}{2}$ turns to traverse the band, while the silky smooth slow tuning took $54\frac{1}{2}$ turns, adequate for the 1kHz digital readout. The digital display switch had three positions, up for ON, centre for OFF and a spring-loaded down for a FREQUENCY CHECK during battery operation. With earphone and record-out sockets on the front panel and an AC input on one side, the back of the set was clear except for the recessed aerial and earth springclip terminals. Lighting: the tuning dial was well lit from behind the film strip scale. The tuning and battery indicator was also clearly lit, while the frequency counter displayed green numerals.

SSB reception for a portable receiver was reasonable, with a BFO switch and pitch control. Use of the bandwidth and RF gain controls was required for strong signals. Audio with bass and treble tone controls was clear, but tended to sound a little plasticity. A decided hum was present when using headphones with AC power plugged in.

A shoulder carrying strap is provided. Two frontal carrying handles and the two rubber-covered knobs on the imitation rack mountings protected the controls when the set was face down for access to the battery compartment. This holds 6 'D' cells with a small recess for the earphone but no stowage for the AC lead. A battery consumption check using a stabilised variable 9 volt supply gave a reading of 80 milliamps at nil volume, with up to 100 ma for a normal listening level. With the frequency display on, the reading was 210 ma, and this increased to 265 ma with dial lights etc on. However, with no display or lights, the DR28 was happy with only 6 volts input.



Overall, this is a receiver I could recommend for DXing and general listening."

Bryan advises that the duty free price for the National DR28 or RF2800B is A\$199 at Miles & Carlaw Ltd.

A colour brochure and technical specifications are available - some further details from these: Selectivity on MW and SW is quoted as WIDE + 2.5kHz @ -6db, +12kHz @ -60db; NARROW + 1.7kHz @ 6db, + 6kHz @ 60db. Readout is to 1kHz on MW and SW, to 100kHz on FM. Dimensions (including guard arms) are 381 x 246 x 120mm and weight 3.2kg without batteries.

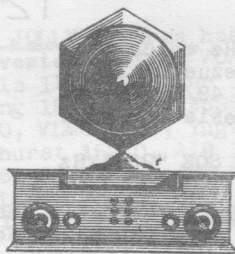
NATIONAL have an extensive range of receivers and accessories for the DXer/SWL. Their receivers are available duty free through Miles & Carlaw as follows: DR22 8 band for A\$163, DR28 (see above) A\$199, the DR48 10 band communications receiver for A\$336. A cheaper model is their R1170B 5 band receiver A\$84.50, which is similar in appearance to the RF1180B model. The coverage is MW and 4 SW bands, with rotating loop, fine tuner, film strip dial, bass and treble tone, DX/LOCAL switch, LOUDNESS, LIGHT, POWER ON/OFF and SLEEP TIMER switches. Operates on AC or 6v DC. The R1170B has a tuned RF stage, 3 IFs & lumped filter.

DR22 users will be interested in National's RD-9810 matching Antenna Coupler, which is available for A\$26 duty free at Miles & Carlaw Ltd Auckland. In a Japanese publication we see pictures of the RD-9600 Digital Frequency Counter & Marker (offering DR22 users the added facility of digital display - not known if compatible with other makes of receiver.Ed) and RD-9830 Preselective Antenna Coupler. These sell in Japan for 26,800 yen (NZ\$103) and 10,500 yen (NZ\$40) respectively.

Info from Bryan Marsh & BC

EQUIPMENT REVIEW

SOLID STATE BC221 FREQUENCY METER Jim Searle has provided a copy of an article from the American ham magazine "QST", explaining how to modernise the BC221 frequency meter with FETs and 9-volt battery power supply. Send a self-addressed stamped envelope to 'Equipment Review', Box 2956, Wellington, and we will mail out a photocopy to you.



SONY have a new digital communications receiver on the market - at first glance looking just like the ICF-6800 pictured on the front cover of the 12/77 DX Times - the new ICF-6700 sells for 54,800 yen in Japan (about NZ\$210), compared with 79,800 yen (NZ\$307) for the ICF-6800 and 98,000 (NZ\$377) for Yaesu's new FRG-7000 model. We can't say much more about it because the source data to hand is in Japanese! However there is a slide rule dial instead of the drum-style of the ICF-6800, and the set description printed on the chassis is "Shortwave dual conversion

Receiver", whereas the ICF6800 is a "Shortwave synthesised dual conversion receiver". Digital readout on the ICF6700 also appears to cover all bands, including MW and FM.

ACTIVE ANTENNA From our Scottish member George Brown comes copies of recent brochures from Datong Electronics Ltd of Bramley, Leeds, England, picturing and describing the Model AD170 Active Antenna: "a compact indoor receiving antenna system with wideband coverage from 60kHz to 70MHz". The UK price is £29.50 (excluding VAT tax) and Datong will include their MPU power supply unit for a total price of £33.00. Another item of possible interest to the DX enthusiast is their FL1 Audio Filter at £53.00. Further info can be obtained from Datong at Spence Mills, Mill Lane, Bramley, Leeds LS13 3HE, England.

YAESU FRG7000 Further to our last 'Equipment Review' info, Trevor Phillips, Masami Onizawa (Japan) and Ralph Sanserino (USA) have provided more details: Firstly comparisons with its predecessor the FRG7....

	FRG7	FRG7000
Width	340mm	360mm
Height	153mm	125mm
Depth	285mm	295mm
Weight	Approx 7kg approx	ditto
Range	0.5MHz - 29.9MHz	0.25MHz - 29.9MHz
Sensitivity SSB/CW	Better than 0.7uV @ S/N 10db	ditto
AM	Better than 2uV @ S/N 10db	ditto
Selectivity SSB/CW	-	+ 1.5kHz @ -6db - 4kHz @ -50db
AM	+ 3kHz @ -6db - 7kHz @ -50db	ditto
Stability	+ 500Hz for 30mins after warm-up	ditto
Power Consumption	14 vA	25 vA
Price (approx)	NZ\$360	NZ\$623

Features of the FRG7000 are the 5-digit digital frequency display, down to 1kHz resolution; 24 hour digital clock display, down to 1 second, with local time & GMT presetable. This also acts as a timer for switching the set on and off. Other items - a large phone jack, fine tuner (+ 2kHz), tone control, attenuator & large S meter. Summarising the differences from the FRG7, digital frequency display, selectivity for SSB/CW, a good sized & well calibrated S-meter, and a digital clock.

Performance-wise, the 2 receivers are expected to be comparable.

Talking of the FRG7, member Des Davey says that he's had many communications receivers in his day, but the FRG7 beats 'em all!



YAESU MUSEN'S NEW FRG7000

CORRECTION. In transcribing Bryan Marsh's report on the National DR48, yr Ed made an error in the comments on the SW range 1.6-3.0 MHz. To correct - there is no graduated frequency readout on these frequencies.

Page 11 of the DX Times for May 1978 refers.

Shortwave Mailbag

with MARK NICHOLLS

12

Highlights this month would be Radio Tanzania-Zanzibar 3339kHz which took Dene Lynneberg 3 years to get back, also many excellent Venezuelan, Brazilian and other South American stations mainly from the 49/60 metre bands starting to return, and also the Africans such as Rhodesia on 4828 kHz.

A new Indonesian station just discovered in Western Timor is SOE "2581kHz

STUART FORSYTH Christchurch has got 6 reports out and has verified DW 11865 RA 15240 17570, ZK5 5045, NHK 15235, Bbc 15310, 5975 and AFRTS 15430, thanks your note passed to John.

DENE LYNNEBERG Wellington has veries back from Moscow via Vinnitsa 11720, Sofia 9700, Armavir 17730, Simferopol 17815, ORU 9685, AFRTS Poro 21670, Moscow via Khabarovsh 15405 HCVGS Galapago 4810, and Radio Tanzania-Zanzibar 3339 prepared card after 3 years!

IAN CATTERMOLE Blenheim has a big list with veries from VOA 5935, 21460, 11730, 15205, DW 9615, 21500, 21560, 6075, 7235, DW Antigua 11810, 9735, 15150, Prague 15395, Dacca 15520 Vienna 9605, AIR 11770, NHK 17775, VOA Tangier 15205, Peking 9780, RA 11835, IBA 9835, KTWR 15425, 17855, 11850, 15155, 15135, Bucharest 11735, 9570, Teheran 15084, Athens 9655, 6140 RCI 5960, SBC 6045, 9725, RNE 11840, 11910, VOA Kavala 15330, DW Montserrat 6000, Gurujá Brazil 5975, Garoua Camercons 5010. A very nice collection indeed.

ALEX WELLNER Australia has got 11 reports out and veries back from RSA 17780, IBA 15415, and 11655, VOA Colombia 15185.

JACK FARROW Lower Hutt has 12 reports away and veries Vatican 7235, Bbc 9635, Belgium 9685, RN 9770, IBA 11655, Grenada 15105.

PAUL RAMSAY Oamaru in his first contribution to Mailbag advises that he has 2 reports out and veries back from SBC 11775, HCJB 11900. Welcome.

BRYAN CLARK Wellington has 8 reports out and veries back from R.New Ireland 2428, Port Moresby 4760, RA Shepparton 21525, and TWR Agana 17830, 17855. Thanks.

JOHN ALLCHIN Auckland has 6 reports out and veries from Nairobi 4934, Cairo 17920 and Kiev 12060.

JOHN MAINLAND Wellington has 4 reports off and QSL's back from RCI-S 5960, 15325, RCI-D 15440 17860, Bucharest 11735, Denmark 9710, Helsinki 17840.

ARTHUR CUSHEN Invercargill has got veries back from IBA 9830, Sofia 9765, 15135, Helsinki 15270, Kiev 9775, Sweden SSB 11950, 21550, Saudi Arabia 6265, KTWR 15130, HCJB 6010, 11955, CBC 11905.

JOHN CAMPBELL Newcastle NSW has veries back from Carixaba 4935, Port Moresby 4760 (tx fault), Quito 4920, AFAN 6012, Continental & International (Dutch Pirate) 6210 Salisbury 2425. With more reports away including one to SOE 2581 a recently discovered Indonesian in Western Timor. Many thanks.

STEVEN GREENYER Invercargill has been very active and has 30 reports out and verified S.Africa 4810, 4835.

HAMISH CAMPBELL Hastings has 13 reports out and veries from HCJB 11900, FEBC 21515, RN 9715, RNZ 17710, VOA 21610.

PAUL ORMANDY Oamaru has logged 23 and has veries from DW 21500, 21600, Benin 4870 (country 148), HCJB 15295, 17890, 15405. Giddy.

PHILIP HAMLIN Tauranga has 19 away and a QSL back from AIR 9912, after 9 months.

CECIL SYMMES Wellington has QSL's back from RA-S 11820, 11855, S.Africa 17780, R.Bandeirantes Brazil 11925 and pennant, Soc. Republic of Vietnam 15012 and pennant, VOA Greenville 26040.

RAY CRAWFORD Invercargill has QSL's from SBC 11780, IBA 5882.5, Bucharest 15345, BBC 3970, DW Antigua 6085, Sweden 15125, SABC 4810 4835, Ulan Bator 6383, 12070 R.Occidente 3225, Guatapurí 4185, R.Nacional Mendoza 6180, Univ de Concepcion 6185, nice selection Ray, thanks.

LEIGH MORRIS Palmerston North has 17 reports out and varies in from Athens 9655, WINB 15185, thanks.

BILL JOLLY Kawerau has 21 reports out and varies in from VOA Poro-Tinang 15290, Kavala 11925, Tangier 15205, Colombo 15185 Peking 15045, IBA 9835, Spain 11815, SBC 11780, VLM4 4920, Yugoslavia 9620, RA Lyndhurst 15270, AIR 11755 (after 14 months) RCI 6140, RN Bonaire 21635, RA Shep. 17725, Sri Lanka 15425. Good luck with surgery on the legs. Six million dollar man, cheers.

TED OSBORNE Wanganui with his first report to the SW Mailbag for a while advises QSLs from SABC 4810, 4835 and pennant, Benin 4870, Ghana 4915, Tanzania 4785, Lagos 4990 Kenya 4804, 4835, VLM4 4920, Serang 4875, Japan 5990, ZK5 5045, HJV6 4818, pennant Peking 9440 pennant YVMQ 4990, YVPA 4940, YVMS 4880, SBC 9560, BBC Cyrus 6180, HCML 4910 pennant, Vila 3945, CE975 9750 Portugal 11935, Port Moresby 4890 pennant Rhodesia 4828 verie signer J. McGlinchey. Ted also advises that HJOX 5010 may have closed down as he received his letter back from the dead letter office. Very nice varies there Ted, you make me envious.

MICHAEL BYRNE Queensland Australia advises that he has 11 reports out and varies back from R. Yugoslavia 15240, R. Prague 17705, KGEB 9555, and TWR Bonaire. Wish you luck with your digital freq counter.

ALAN GILMOUR Greymouth has 3 reports away and varies back from LLK 11850, Helsinki 15265, KTRW 15115, Lagos 15120, Sweden 15125, LUG2 9605, Ulan Bator 6383.

JACK SEARLE Haumoana has varies from Kenya 4934, ZK5 5045, Peking 11302, Cairo 15375, FEBC 15450, Moscow via Simferopol 15130, via Vladivostok 15130, Tbilisi 15470 and DW Kigali 15410, 21540, DW Malta 15105, also NBC P2T9 4760 with sticker (should have been 9520 but had tx fault!) Unfortunately this time of the year thats a bad habit with us all. Cheers.

PAUL RAWDON Eastbourne has 3 out and QSLs from Finland 21495, 15265, RSA 5980, Spain 7155, 6100, Budapest 9585, RM Armavir 11960 15470, Vinnitsa 15465, Moscow 11710, 9480, Kiev 9720, Tula 12000, Krasnoyarsk 11820, Kenga 15175, Nikolaevsk-na-Amur 15415 and 17765, Frunze 15500, Leningrad 21600. Da!

PAUL EDWARDS Wellington sports 3 good 'uns = Galapagos 4810, RRI Sorong 4875 (15 months) and Mongolia 12070.

BEST OF THE MONTH

Shortwave winners for July.
Under 9MHz: Radio Tanzania-Zanzibar
3339kHz 10kw 122pts
Dene Lynneberg
Over 9MHz: Radio RSA 17780kHz
102pts
Cecil Symmes

FROM HEADQUARTERS

COLUMBUS TROPHY ENTRIES. Now that June has ended, so has the League's Competition year. All branches are



asked to send their entries for the Albert Stanton Cup (Broadcast), Hope McGregor Memorial Trophy (Shortwave) and Columbus Trophy (aggregate) to Box 1313, Invercargill, no later than 31 August.

POINTS FOR COLOMBIA. The countries list points for this South American country have been amended to 85 on broadcast.

This corrects the info given last month.

COMPETITION AWARDS.

If you are a participant in the League Ladder and are not up-to-date with a certificate and stickers for each section you have completed, please drop a note to the Competitions Secretary, NZRDXL, P.O. Box 1313, Invercargill, so that your entitlements can be brought up to date.

AFRTS WASHINGTON's sked to 2 Sept is: from Poro (Philippines) on 21670 0100-1900 & 11835 1900-0100. From Dixon, Calif on 11805 0600-1400, 9700 1000-1400, 17765 1800-0600 and 15330 1800-1000. From Greenville NC, 15430 1200-1400, 11790 1800-2300, 6030 2300-1200. From Bethany Ohio on 6030 0100-0500, 9755 0500-1200, 15330 1200-1400 and 1800-0100, 11790 0000-0500, 9685 0500-1200, 15430 1800-0000. The address for reception reports is:

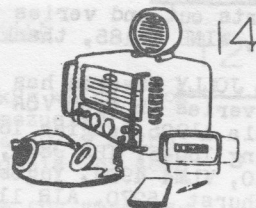
AMERICAN FORCES RADIO & TELEVISION SERVICE-WASHINGTON
1117 NORTH 19th STREET
ARLINGTON, VA 22209

BC

4952.5 The station thought to be Guinea-Bissau (see p18 last month) is Senegal according to BBC WRC report.

SHORTWAVE BANDWATCH

Coordinated by JOHN ALLCHIN



The past month has seen plenty of activity and excitement on Shortwave with a number of excellent catches being reported by contributors. Judging by member's comments, it would appear that some of the International Broadcasters are beginning to vacate lower band frequencies, especially 49 meters, in search of higher frequencies due to increased sunspot activity, and Ray Crawford and Steven Greenyer in Invercargill report one of the best Latin American seasons on this band for quite a number of years. Probably the highlight of the month is Dene Lynneberg's reception of the Cape Verde Islands on 3930 kHz, an excellent catch, and Dene also reports Sierra Leone on 5980 kHz at around 0722 GMT with English being heard. In other news, Radio Japan has begun transmissions via their first relay station, using installations in Sines, Portugal on 9670 and 9685 kHz, in order no doubt to improve signal quality to their European listeners. Radio Baghdad, Iraq has moved again, this time to 11935 ex 11925 kHz in their English Service to North America at 0300 GMT, and further to test transmissions by Uganda on 9730 kHz to Eastern Europe, have now commenced tests to North America on 15325 kHz. Our Sri Lankan member Victor Goonetilleke has provided some interesting items, the VOA have introduced some new 13 meter band frequencies while there has been increased activity on 11 meters. Remember, an * indicates overseas contributor and initials underlined means that the station has been reported, as well as observed.

ALL TIMES ARE GMT (Add 12 hours for NZT)

FREQUENCIES IN KILOHERTZ

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITIALS
3200	1955	SWAZILAND	TWR Manzini,	with English gospel programme at a fair level.	DL
3205	0950	BRAZIL	Radio Ribeirao Preto,	fair signals with full ID 1100	SG fair-gd RC
3215	0500	SOUTH AFRICA	SABC EE service with news.	Also heard at 2000 DL 0452 with light music. ID 0500 " This is Radio South Africa " then news BC In EE at 1820 on this new frequency at fair strength 21/6.	GVG*
3222	0530	TOGO	Lama Kara	quite fair in PF at s/on with full ID DL In vernaculars 1920 at fair level with no sign of Swazi Radio 3223 21/6.	GVG*
3250*	0100	SOUTH AFRICA	SABC all night service	//3980 better than Indians on 90mb	GVG
3255	0941	BRAZIL	Radiodifusora Uberlandia	fair with music prgm. Venezuela later.	DL
3260*	1845	NIGER	drum music 1845,	strong for listed 4kw 21/6.	GVG
3280	1035	ECUADOR	La Voz del Napo,	fair in local Indian language.	SG
3305	0430	BRAZIL	Radio Maua	good in PP-unusual time. Music & talk prgm. Also 0900.	DL
3315	1100	ECUADOR	Radio Pastaza,	good signal with spoken prgm after s/on with mentions on Pastaza.	SG
3330	1100	PERU	Tentative Ondas del Huallaga	back on this freq SG. tent. back here	RC
3350	0530	GHANA	Ejura s/on with EE ID and vernaculars	programme at fair level.	PO
3360	0500	GUATEMALA	La Voz de Nahuala	good at sign off at this time.	RC
3365	0825	BRAZIL	Radio Cultura	good with music programme 12/6.	RC
3390*	1445	AFGANISTAN	probably in the Uzbek service,	splash from Sri Lanka, fair.	GVG
3395	1715	SRI LANKA	Colombo	vg with classical music prgm to sign off 1745 with full English identification.	DL
3930	2003	CAPE VERDE ISLANDS	Voz de Sao Vincente,	peaking fair 2020 in PP. Fading out by 2040 1/7. (great catch!-ed)	DL
3945	0630	NEW HEBRIDES	YJB-4 Vila,	good with bulletin of English news.	LM
3952	0815	GREAT BRITAIN	BBC good with EE news at this time.	0830 German.	SF
3977.6m	1945	INDONESIA	RRI Surabaya	tentatively here at good level. Where is Ramadan?	BC
3995	0415	WEST GERMANY	DW Julich	fair with German programme.	SF
3995	0420	SOUTH AFRICA	Radio RSA Johannesburg	with " Good Morning Africa ", good over the Deutsche Welle till sign off 0426.	BC
4115*	1300	NORTH KOREA	Voice of Revolutionary Party	for Reunification. KK at 1300. Sign off 1430 after EE programme at good strength.	GVG
4691*	1230	VIETNAM	here with no sign of Bhutan	Wednesdays 1230-1330. Hrd 21/6.	GVG
4724*	1600	BURMA	Rangoon	on extended schedule 17/6 until s/off 1600 in Burmese.	GVG
4760	2010	PAPUA NEW GUINEA	Port Moresby	here ex 4890. RC CS SF. (Was here in error per QSL from NBC Port Moresby -ed). Now back on 4890 after brief period here.	

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	15	INITS
4775	0340	COLOMBIA	Radio Kennedy	Mass until sign off with ID 0400 <u>SG</u> . With Ave Maria and Catholic Service closing 0400 <u>AC</u> .		
4775	0339	BOLIVIA	Radio Los Andes	fair with SS music and ID given at 0405.		<u>DL</u>
4775*	1300	AFGANISTAN	Urdu 1300-1400, EE 1400-1430 and Home Service till 1730	21/6 hetting with reactivated Jakarta 4774.		GVG
4782	1153	HONDURAS	Radio Juticalpa	good signal with commercials and frequent IDs with frequency anncnts. Excellent signal with full ID 1200 12/6.	<u>SG</u>	<u>RC</u>
4795	0340	BOLIVIA	Radio Nueva America	here till s/off 0400 with full ID. <u>SG</u> Good		<u>RC</u>
4795	0406	ECUADOR	La Voz de Caras,	clear after Bolivia signs off <u>SG</u> . Fair 0401.		<u>AC</u>
4785	0550	BRAZIL	Radio Brasil	with music prgm till sign off 0600.		<u>TO</u>
4805	0308	BRAZIL	Radio Itatiaia	fair with "Aqui Itatiaia" at 0310 <u>SG</u> . good 12/6.		<u>RC</u>
4815	0752	BRAZIL	Radio Dif. Londrina,	ID and frequency anncnt on the hour.		<u>SG</u>
4840	0304	VENEZUELA	Radio Valera	good signal, sign off at this time 12/6.		<u>RC</u>
4845	1950	MAURITANIA	Nouakchott AA ID at 2000	then music poor CS. In ff 1900 good.		GVG*
4845	0325	COLOMBIA	Radio Bucaramanga	fair with frequent IDs <u>SG</u> . Fair to after 0345- <u>AC</u>		
4850.9	0330	ECUADOR	Radio Luz y Vida	moved here ex 4830 12/6. Still here 29/6. Here with definite ID 0330, good also 1100. No sign Ondas del Zamora. het 0330.		
4853*	1600	YEMEN	Sana'a 1600 past 1800 in AA	ex 4976 22/6. GVG		<u>RC</u> <u>SG</u>
4870	0339	PERU	unidentified till 0400	s/off, possibly "La Merced.". Tent report.		<u>SG</u>
4870	0250	ECUADOR	Radio Rio Amazonas.	Closes 0305 <u>AC</u> . Fair, s/off 0306 4/6.		<u>RC</u>
4870*	0750	VENEZUELA	Radio Universo,	Latin music with IDs and advts.		<u>AW</u>
4875	1330	INDONESIA	RRI Sorong	with EE Mailbag type prgm Saturdays.		<u>AG</u>
4885	0440	KENYA	Kisumu	fair in EE with local music till 0503 sign off.		<u>PO</u>
4890	1035	PAPUA NEW GUINEA	Port Moresby	now back on this frequency (see 4760).		<u>JA</u>
4890	0558	SENEGAL	Tentative,	anthem at 0600, then FF prgm till 0610 fade out.		<u>SG</u>
4895	0450	PERU	Radio Chanchamayo,	good signal, many IDs <u>SG</u> . 0730 with Andean music, full ID 0739 then s/off after anthem. Fair <u>AW</u> * Good in SS through to sign off at 0504 <u>DL</u> .		
4905	0930	BRAZIL	Radio Relogio	fair with SS prgm. CS. Time checks and pips every min. <u>SG</u>		
4915	0334	BRAZIL	Radio Anhanguera	vg in PP through to sign off 0403.		<u>DL</u>
4915	0430	CHAD	Ndjamena,	on this frequency 0430 11/6 ex 4904½. Later mixed Ghana. Back on 4904½ by 1845 same day.		<u>BC</u>
4975	1035	COLOMBIA	Ondas del Orteguzaza,	weak to fair, with many "Banco de Colombia" advertisements.		<u>SG</u>
49925m	0515	ZAMBIA	Lusaka ?,	heard for three days, on first occasion with EE ID and hospital requests on Sunday morning local time. Poor strength. Not hrd since.		
5005	1451	NEPAL	Radio Nepal Kathmandu	EE news & comment //3425 with QRM from Sarawak.LM. Corrected frequency down from 5007 vg 1650 Nepali 22/6.		<u>JS</u> GVG*
5016m	1925	SOLOMON ISLANDS	Honiara,	noted back on it's old frequency nominal 5015 on 24/6 with prgm in Pidgin.		<u>BC</u>
5030	0940	VENEZUELA	Radio Reloj Continente,	SS prgm with music and plenty IDs. Poor. CS		
5930	0350	CZECHOSLOVAKIA	Radio Prague	in EE to North America fair to s/off 0400.		<u>SF</u>
5950	0615	PERU	Radio Arequipa,	SS with ID 0630 signing off 29/6 at good level.		<u>AG</u>
5955	0645	CHILE	Radio Nuevo Mundo	poor to fair with het, full SS ID 0700 & s/off. <u>AG</u> On 5956 with great listening music prgm through to s/off w/full ID 0705. <u>DL</u>		
5965*	0635	BOLIVIA	Radio Nacional Huanuni	Latin music & ID at 0637. Good signal.		<u>AW</u>
5965	0430	NIGERIA	NBC Jos	fair s/on with drum Interval Signal and then EE ID and Hausa programme.		<u>PO</u>
5975	1513	BURMA	Rangoon	popular music with EE ID 1558 & s/off. New here ex 5985.		<u>LM</u>
5975	0441	GREAT BRITAIN	BBC World Service	very good in EE.		<u>FB</u>
5980*	0630	PERU	Radio Panamericana,	Andean music & ID, good till RA carrier on 0650. <u>AW</u>		
5980	0722	SIERRA LEONE	SLBC Freetown,	fairly good with local messages in EE and local dialect. Advts for MacLeans toothpaste! Still hrd 0800. <u>DL</u> 0100 vg. <u>GVG</u> *		
5985	0619	PAPUA NEW GUINEA	Radio Rabual,	country & western till 0630, then talk prgm till 0646 s/off <u>SG</u> . Fair to s/off after talk prgm 0645.		<u>RC</u> <u>FB</u>
5990	0438	ITALY	RAI	fair to poor with EE news.		
5990*	1500	ETHIOPIA	Ethiopian service	//7100, good around 1500 past 1630 21/6.		GVG*
6005	0540	BOLIVIA	Radio Progreso	heard with SS anncnts & IDs, till s/off 0700.		<u>JM</u>
6006	0810	COSTA RICA	Radio Reloj	in SS with ID 0814. Music programme, poor.		<u>CS</u>
6010	1144	PHILIPPINES	VOA	poor in EE with programme on Cancer.		<u>CS</u>
6015	0430	AUSTRIA	ORF	fair in EE to North America.		<u>JS</u>

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	16	INITS
6015	1106	COLOMBIA	Radio Mira	after sign on, chimes before each ID.		SG
6015	0855	BRAZIL	Radio Clube de Pernambuco,	fair with music programme.		RC
6025	0502	PORTUGAL	Lisbon	with news and commentary at a fair level.		PH
6030*	1300	PHILIPPINES	FEBC	in EE service fair at 1300 with ID for DZ?? 20/6.		GVG
6055	0540	COLOMBIA	Radio Pacifico,	SS anncts& advts with EE pops, fair, s/off 0600.JM		
6060	0910	ARGENTINA	good signal in SS with ID 0913 "	... Radio Nacional Buenos Aires ". Some QRM from strong carrier on 6055.		JA
6065	0450	SWEDEN	Radio Sweden	good with prgm to Europe, EE pops.		JS
6082*	0800	PERU	Radio Nacional	with plenty advts, Latin music and ID at 0830. AW Exc in SS with music programme 1152 and frequent IDs.		JA
6105	1100	MEXICO	" Su Pantera "	, good signal at s/on with talk and music prgm, frequent mentions of Mexico but few IDs SG. S/on 1101 with IDs and hrd past 1245 DL. Good and in the clear past 1130. SS ID 1103.		BC
6115	0913	COLOMBIA	La Voz del Llano,	good until covered by Peru at 1100. s/on 1000 SG AC		
6115	1300	PERU	Radio Union	excellent signal at this time.RC. Very good in SS 1145.JA		
6125	1224	BOLIVIA	Radio Stantor,	fair signal with IDs by male & female anncrs. SG		
6135*	0130	BRAZIL	Radio Gaucha,	a southern winter visitor, with PP sports cmtry. GVG		
6155	2210	CYPRUS	CBC Zyygi,	fair in Greek 2215 till s/off 2228 but mixed. Also on 7190 at good level, and 9690 excellent signals.		DL
6165	0540	NETHERLAND	ANTILLES RN	Bonaire in EE poor with comment & music.		CS
6175	0550	ANTIGUA	BBC WS	good with World News in EE. CS. At 0100 past 0130.		GVG*
6175	1208	PERU	Radio Tawan	tinsuyo, fair with good ID and Indian music.		SG
6180	1100	GUATEMALA	La Voz de Guatemala,	excellent signals some nights, long anthem and then full ID at s/on SG. Excellent at 1240. Also hrd s/on 1100.		RC
6185	1115	BOLIVIA	Radio Batallon,	fair signal, only hrd on odd occasions, not regular. QRM to 1115 from RRI Manokwari. RC. Noisy but copied a/1200.		SG
6190*	1008	VENEZUELA	Ecoss del Torbes,	22/6 vg over QRM with SS music & ID 1020. DM (This would be your Latin GVG-ed).		
6195	0905	MALAYSIA	BBC WS	with EE World News with Far East emphasis, good level. CS		
6383	1220	MONGOLIA	Ulan Bator	with EE ID and news and folk music //12070 w/QRM. LM		
7120	0815	CHINA	Radio Peking	good with English commentary. JF		
7145*	1600	UZBECK	SSR Radio Tashkent	s/on in Farsi, strong 9/6 //11925 9600 9540. GVG		
7190	2213	CYPRUS	CBC Nicosia,	Interval Signal and news in Greek to UK gd, ex 7275.LM		
7200*	1445	AFGHANISTAN	in the home service	at 1445 in vernacs, not //6000, 4775. GVG		
7235	2044	ITALY	RAI sign off	in EE to Middle East mixing with several others. JS		
7235	2210	VATICAN STATE	Vatican Radio	fair with English comment. JF		
7255	0554	NIGERIA	Voice of Nigeria	Interval Signal & EE Safari prgm, good and ex 7275 at this time. LM. 0615 EE prgm, Afro music. ID and news 0630 o/QRM.DM*		
7360	2040	USSR	Radio Moscow	with EE service. JS		
8891.5*1710		MONGOLIA	Ulan Bator	carrier on 1710, s/on 1725, strong carrier, pr modulation in EE. GVG		
9420	0930	NORTH KOREA	Radio Pyongyang	good with news in EE. FB		
9425	2000	ISRAEL	IBA Jerusalem	fair with news in EE. JF		
9525	0201	SPAIN	Radio Exterior de Espana	fair in SS w/news & music. CS		
9525	1030	SOUTH KOREA	KBS Seoul,	EE ID and then SS prgm with music.CS. EE 1001 gd.FB		
9535	0530	ANGOLA	Luanda,	PP ID and then a prgm of popular music. LM		
9555*	0851	USA	KGEI NF	ex 5980 in JJ with religious prgm. EE ID 0900 very good. DM		
9570	0132	ROUMANIA	Bucharest	good with news in EE. FB		
9580*	1600	ZAMBIA	Lusaka	heard signing on at this time under strong USSR in GG 21/6. GVG		
9595	0900	JAPAN	JOZ3 Tokyo,	JJ & EE ID good w/EE language lessons. 1535 EE advt,gd.GVG*		
9605	2236	BRAZIL	Radio Nacional de Brasilia,	fair signal in PP. FB		
9620*	0842	NEW ZEALAND	RNZ NF	to Aust. very good signal with some QRM. Wx 0845. DM		
9630	0300	CZECHOSLOVAKIA	Radio Prague,	Interval Signal, poor with news & comment. PH		
9650	0300	AUSTRIA	ORF Vienna	very strong in SS. JS		
9670	2202	PORTUGAL	Radio Japan	via Sines, fair with EE news & comment. JJ 2215.JMvg.BC		
9685	0700	PORTUGAL	Radio Japan	via Sines, NHK testing, poor under AFRTS with EE news.BC. Test transmission to Europe EE/JJ General Service.QRM AFRTS. JM		
9690	0400	ROUMANIA	Radio Bucharest	good with " Tourist News ", prgm to Nth Am. PH		
9745	2139	IRAQ	Radio Baghdad	good in EE with ID and commentary. LM		
9760	2213	EAST GERMANY	Radio Berlin	International good in SS. FB		
9770	0730	NETHERLAND	ANTILLES Radio Nederland	good in EE with news. JF		

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITIALS
11680	2145	USSR	Radio Station Peace & Progress	good with prgm in EE.	FB
11710	0335	NETHERLAND	ANTILLES TWR Bonaire	Romanian fair at s/on, replaces 6190.	JM
11730	0800	SPAIN	Madrid test broadcast to Australasia	//9520, 11910.	JM
11765	0930	PHILIPPINES	Manila	very good with breakfast show and religion. PH Fair 0900 parallel to 11850 deleted.	JM
11765	0550	CHILE	Voice of Chile EE ID,	fair with talk, new frequency. JM. 2330 fair.	RC
11775	1100	GUAM	KTWR	opens on this frequency, but mixed with BBC Antigua.	AC
11780	0900	GUAM	KTWR	opens in JJ.AC. Hetrodyne with Pyongyang carrier 11778 1040, EEJA	EA
11780	0305	UKRAINE	SSR Radio Kiev	good transmission with prgm to North America.	PH
11785	2330	BRAZIL	Radio Guaiba,	fair with World Cup Soccer Game.	RC
11790*	0015	USA	AFRTS Bethany, NF	to Europe & Africa. ID 0015 then news at vg level.	DM
11815	2310	SPAIN	Madrid	good relaying World Cup Soccer Game.	RC
11825	2140	TAIWAN	VOFC Taipei	fair with EE programme.	JS
11825*	1500	PHILIPPINES	Radio Veritas Overseas	Tamil 1500-1530 ex 11875 at good level.	GVG
11835*	1500	AUSTRALIA	RA Carnarvon	EE to SEA ex 11755 due QRM from Moscow. Good since 11/6	JM
11855	1530	SEYCHELLES	FEBA	fair in EE to South East Asia. JM. 0200, 1530 NF GVG*.	/GVG
11880	2300	ARGENTINA	Radio Splendid	with World Cup Soccer.	RC
11835	2235	URUGUAY	Radio El Espectador	fair with SS music and full ID 2244.	LM
11905	1056	THAILAND	Radio Thailand Bangkok	fair at s/on in EE.	LM
11905*	0032	SWEDEN	Radio Sweden Stockholm	NF to West NA in EE vg signal 12/6.	DM
11915	2330	BRAZIL	Radio Gaucha,	also carrying World Cup Soccer Game.	RC
11935	0500	PORTUGAL	Radio Portugal	//6025 signing on in SS. Fair strength.	SF
11935	0315	IRAQ	Radio Baghdad	EE to North & South America, fair NF ex 11925.	JM
11935	0600	WEST GERMANY	DW GG	to Africa fair, replacing 11945.	JM
11953.2*	1100	CAMBODIA	ex 11943	since 27/5 causing severe QRM to BBC and Veritas to 1500. GVG	JM
15105	0500	ISRAEL	IBA Jerusalem	good with news in EE.	JF
15120*	0604	NIGERIA	Voice of Nigeria	in EE with prgm on SA & Rhodesia. ID 0608 vg, QRM. DM	DM
15120	1948	VATICAN STATE	Vatican Radio	religious prgm in Latin at fair level.	CS
15150*	2159	CHILE	1/6 prgm in GG, ID 2201	//2 new frequencies 17790 & 17800 all vg. DM	DM
15200	0253	USA	WYFR Massachusetts	in EE and SS with religious programming.	FB
15205	0530	SOUTH KOREA	KBS Seoul	SS to 0600, Korean 0600-0630, EE 0630-0700 directed to Europe at fair level 11/6.	JM
15225	0215	HUNGARY	Radio Budapest	strong with request prgm in EE.	FB
15260*	0200	PHILIPPINES	Radio Veritas Overseas	0200-0230 in Telagu ex 15135 due jamming.	JM
15265*	2201	FINLAND	Radio Finland	8/6 NF to NA in EE //NF 11800 in time slot from /GVG 2300-2330. Finnish news and ID 2307. Both frequencies very good.	DM
15270	2347	AUSTRIA	ORF Vienna	good with music programme and German announcements.	FB
15295	0625	MALAYSIA	Voice of Malaysia	Interval Signal & ID, EE prgm very good.	LM
15305	0214	SWITZERLAND	SBC Berne	good in EE. FB. NF to N&C America and into SS 0214vg. DM*	DM
15325	0327	UGANDA	U.B.C. Kampala,	test transmission to NA in EE. Popular music and frequent IDs. s/off 0400. DM*. Very good 0335 CS. vg with some QRM JS. EE & FF IDs. AC.	JS
15325*	1530	SEYCHELLES	FEBA	in EE 1530-1630 ex 9545 due to gter sunspot activity.	GVG
15365	0705	SAUDI ARABIA	Riydah AA	service, talk and music & ID 0730 ex 17755.	JM
15400	0443	BANGLADESH	Dacca Interval Signal,	EE ID and news at fair to good level.	LM
15485	2330	ISRAEL	IBA Jerusalem	with EE news at fair level.	JF
15515	2130	TURKEY	TRT Ankara,	very good at sign on in EE.	LM
17700	1915	MADAGASCAR	RN relay	with EE/Dutch language lessons. S/off 1920 poor.	CS
17720	1855	FRANCE	RFI Paris, Interval Signal,	ID at fair level, then music prgm.	CS
17780	0605	SOUTH AFRICA	Radio RSA	EE news poor. CS. 0550 strong opening in EE.	JS
17815	0400	ISRAEL	IBA Jerusalem	signing on with Hebrew prgm at fair level.	JM
17830	0030	GUAM	KTWR	into EE at this time but severe co-channel QRM from SBC 12/6.	JA
17830	0230	PAKISTAN	Rawalpindi,	dictation news in EE to the Far East.	JS
17850*	0544	ROUMANIA	Bucharest	18/5 NF in EE to Africa. ID 0545. Vg to s/off 0559.	DM
21450	0842	USSR	Radio Moscow,	new frequency fair in EE past 0910.	BC
21465	0740	EAST GERMANY	RBI NF	in Hindi to SEA. News & ID 0742 vg DM*. EE till 0730. PO	PO
21470	0900	GREAT BRITAIN	BBC WS	signing on at this time in EE.	PO
21475	0800	BELGIUM	BRT	signing on in Dutch.	PO
21480	2010	USSR	Radio Moscow	noted with USB transmission in SS. Full ID 2028, then interval signal and programme in RR.	BC
21480	1959	ECUADOR	HCJB	with EE first noted 30/6, fair deteriorating. Into FF 2030. BC	BC

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	18	INITS
21495*	0800	FINLAND	YLE	in Finnish on Sats since 3/6, exc to FE & A/NZ. EE Sunday.	PO	GVG*
21505	0700	USSR	" Radiostantia Tikhii Okean "	sign on in Russian.	PO	
21510	0800	PORTUGAL	Radio Liberty	Gloria signing on in Russian.	PO	
21520	0700	SWITZERLAND	SBC Berne	with EE s/on, 0800 Italian, 0900 English.	PO	
21550	0530	SWEDEN	Radio Sweden	excellent with SSB transmission in Swedish	BC.	0530. PO
21550	0930	GREAT BRITAIN	BBC	signing on in Bengali.	PO	
21560	0502	ITALY	RAI AA	at this time	PO.	WEST GERMANY 0600 signing on in German. PO
21565	1930	ISRAEL	IBA	another new 13 meter frequency but too severely jammed to send report. //frequencies 21495, 21580, 21625, 21650 all jammed too.	BC	
21570	0800	AUSTRALIA	RA Carnarvon	s/on in EE. PO. 2100 RFE ?? music, jammed at this time.	PO	
21580	0345	ISRAEL	IBA	with Russian service, also 0535 on Saturdays & Sundays	PO	/PO
21585	0900	USSR	Radio Moscow	in Indonesian.	PO.	SWITZERLAND 2050 in PP, into SS 2100. PO
21590	0230	PAKISTAN	Radio Pakistan	EE news 0245 and also heard in Urdu 0500.	PO	
21600	0830	USSR	Radio Moscow	in EE at poor strength.	CS.	EE 0600, Indonesian 0900. PO
21605	0815	KUWAIT	signing on in AA.	PO. GREAT BRITAIN BBC signing on in EE 0900.	PO	
21630	1145	GREAT BRITAIN	BBC	London fair concluding Russian prgm at this time.	BC	
21630	0130	PHILIPPINES	VOA	with new transmission in Hindi, Urdu 0200 and s/off 0230	BC	Other new VOA 13 meter frequencies: 21460 s/off 0330 after EE news. BC In/GVG* Chinese 2330. PO. 21590 " Press Conference USA " 1945 BC. EE 2100 PO. 21610 Eastern European language 2025. BC. 21700 Jazz music prgm 2030. BC PO
21655	2110	UNIDENTIFIED	with World Cup Soccer	results and commentary. (Presume EE-ed)	PO	
21660*	1400	SWEDEN	Radio Sweden	ex 17735 in EE to Asia - zerobeat due TCH co-channel.	GVG	
21670	0000	USA	AFRTS	Philippines. in EE past 0700	PO.	24/5 vg 0722 with sport. Nx 0730. DM*
21690	0830	ITALY	RAI	s/on in Italian to 0930.	PO.	SWEDEN Radio Sweden in FF, Swedish 1000. PO/PO
21700	0930	PORTUGAL	Radio Portugal	signing on at this time in PP.	PO	
21720	0800	PORTUGAL	Gloria	Radio Free Europe signing on in Czech.	PO	
21730	0200	PAKISTAN	Radio Pakistan,	Indonesian Service w/EE news to 0250. Urdu 0500.	PO	
21745	0800	PORTUGAL	Radio Liberty	Gloria, in Russian but heavily jammed.	PO	
25605	0532	ISRAEL	IBA	Jerusalem, tuning signal & s/on in RR. Slight jamming but otherwise fairly good.	DL.	Interval signal & s/on Saturday & Sunday, poor to fair with rapid fade. Off 0600 BC. Russian prgm, news fade out by 0543. JM
25660	0800	AUSTRALIA	RA Carnarvon	?? heard poor to good past 0840. Unannounced, perhaps a spur ??		
25920*	1100	UNIDENTIFIED	AA station	1100-1500 s/off, weak with deep fades. Can anyone ID this one??	Rabat??.	GVG

THANK YOU to the following BANDWATCH CONTRIBUTORS for 206 items from over 85 different countries! CS Cecil Symmes LM Leigh Morris JS Jack Searle FB Frank Burgess (a new contributor - welcome!) SG Steven Greenyer AG Alan Gilmour BC Bryan Clark PH Philip Hamlin AC Arthur Cushman SF Stuart Forsyth JM John Mainland JF Jack Farrow DL Dene Lynneberg PO Paul Ormandy and overseas contributors GVG G. Victor Goonetilleke from Sri Lanka AW Alex Wellner from Sydney, NSW and DM Don Mitchell, Hamilton Victoria. Also JA John Allchin. NB Last months JA contributions were from John Adam.

Ray Crawford's 11765 Brazilian at 2330 is for Radio Tupi, not for the Voice of Chile as is John Mainlands. Due to the overwhelming number of notes received for Bandwatch this month, some items had to left out, preference being given initially to items that had not been featured in the last couple of issues. Even so, we have been allowed to run into five pages this month. BEST OF DX TO ALL !

One late item: Family Radio, Okeechobee, Florida was heard on 21675 in EE from tune-in at 2124 till s/off around 2253 GMT. Signals were fair, with //15440 very good 7/7. Anncd 17845 and 15440, but 16 metres not audible. BC

PAPUA NEW GUINEA Ian Cattermole sends in a new list of NBC stations received from Port Moresby. Included is fresh data re the projected Radio Enga at Wabag. Previously thought to be located on a 75 or 60 metre frequency, the station is allocated to 1494kHz MW with 2kw, and not shortwave at all.

SBC BERNE is to change it's name to "Swiss Radio International" in November. Callaghan SCDXers. SBC are using SSB on an experimental basis for some of the programmes to North & South America. A 30kw transmitter at Schwarzenburg is using 11780kHz for EE at 0145-0215 and 17740kHz in EE 1315-1345. Ian Hitchiner.

Tests broadcast from Uganda on two frequencies are still being heard while the Voice of Chile has expanded its frequencies now being used. KTWR advises that they have no plans for an English service to Australia and New Zealand in the mean time but are anxious for reports on their two English programmes 1000-1100 and 0000-0130GMT. This information was first broadcast on Radio New Zealand on Sunday July 2 at 1015GMT.

All times GMT

All frequencies in kHz.

Afghanistan: Radio Kabul 4775kHz heard in English 1300-1330 but mainly political talks. Has retimed its service to Europe now broadcast 1630-1930 on 11820 with English 1900-1930GMT.

Antigua: BBC relay of World Service since June 9, 17845 has been replaced by 17840 2000-2115GMT. 17845 suffered interference from WYFR, while 17840 is now mixed with Prague. 11775 now uses 1100-1330GMT but spoilt by KTWR.

Brazil: Radio Gazeta 5955 now heard all night and best around 0800GMT.

Chatham Islands: Chatham Island Radio on 2556kHz has been heard with a daily news service at 2015GMT. The five minute bulletin generally consists of weather reports, announcements of local activities and other notices. Chatham Island time is 45 minutes ahead of New Zealand time or 12 hours 45 minutes ahead of GMT.

Chile: Santiago using as many as nine transmitters and noted at 2200 on 17640, 17712, 17790, 17800 also in the 19 metre band.

Colombia: La Voz de Maria "Radio Kennedy" on 4775 heard with catholic programme and sign off at 0400 with Ave Maria. On 6160kHz Emisora Nueva Granada, Bogota has changed its slogan to Radio Suceso and heard best around 0800GMT.

Czechoslovakia: Prague in English to Australia and New Zealand is now 0730-0800 on 17855 also 15395, 21700 and 0830-0900 on the same frequencies and on Saturday and Sunday 0900-0930 same frequencies. To East Asia 1430-1457 on 7345, 9605, 11990, 15110, 17725, 17840 and 21670kHz.

Guam: KTWR noted on 11780 0900-1100GMT and then moves to 11775kHz but causes interference to BBC Antigua.

Holland: Radio Nederland commenced satellite relays to its stations at Bonaire and Madagascar on July 5. This will mean that programmes can be recorded the previous day and my DX Jukebox material can be recorded about 10 days before broadcast.

Iran: Teheran is noted with a new schedule on 9022kHz with German 1730, French 1800, English 1830 and Persian 1900GMT.

Iraq: Radio Baghdad has made a further frequency change for its English broadcast to North America 0300-0400GMT and is now using 11935kHz in place of 11925kHz. (John Mainland).

Korea: (South) Seoul 11965 heard with English 1230-1300GMT, also broadcasting to Europe at 0630GMT on the new frequency of 15205kHz. (John Mainland).

Korea: (North) Pyongyang now noted with Voice of Korean Unification heard on 1135 at 1400GMT and announces schedule as 2230-2300 and 1400-1430 in English on 1135, 4120 and 4557kHz.

New Zealand: The Shortwave Service has made a frequency change and 11960kHz is operating 1800-2015GMT replacing 11800kHz.

Uganda: Kampala heard with two test transmissions. Noted on 9730kHz from 0410 onwards with a test transmission to Eastern Europe and asking for reports to the Chief Engineer, Uganda Broadcasting Corporation, P.O. Box 2038, Kampala, Uganda. At 0310GMT or later opens on 15325kHz with a test to Canada and USA up to 0355GMT. Also asks for reports in English and French and after some days of playing recorded music on June 22 was heard with transcribed programme with African music with English announcements.

..sign off..

GHANA plans to reopen its External Service shortly. EE to Europe will be broadcast 2045-2215 on 9545 and 15295kHz; To North America 2000-2100 on 11850kHz.
Reiff SCDXers 30/5

RADIO KOREA's EE sked, as announced 26/6 is :-
1600-1630 on 7150, 9640, 9720; 1800-1830 on 9720;
0230-0300 on 11850; 0630-0700 on 9640, 15205; 1000-1030 on 9525 & 9580; 1130-1200 on 7150, 9710 and 11965; 1330-1400 on 9710 & 11965; 2300-2330 on 9640 and 9650.

John Mainland

VOICE OF TURKEY broadcasts in EE 1200-1300hrs on 9665 to India/Pakistan and 2130-2300 on 7170, 9515 to Europe. 7170 carries GG at 2000 and FF at 2100, both for Europe. 9665 and 7170 are 250kw, 9515 is 100kw.

Sked via BC

RADIO NORWAY's new high-power transmitter site at Kvitsøy had construction work disrupted recently. Local farmers and activists teamed up to demonstrate against the project, but their appeals were rejected by the Norwegian government and work has resumed. On completion the Kvitsøy facility will include a rotatable log-periodic antenna, a MW tower, a rotatable curtain antenna, a transmitter building, and a number of fixed curtain antennas. Elsewhere, at Sveio, three further 500kw transmitters are to be built.

R.Wood, Review of International B'casting via SCDX

SRI LANKA's EE transmissions are sked: 0030-0230 on 6005, 9720, 15425; 0230-0430 on 9720, 15425; 1230-1730 on 6075, 7120, 17850. Also 1030-1130 on 11835, 15120 & 17850; 1845-1945 on 11870, 15115, 15120 & 17850kHz. Verie signer is Superintending Engineer, Lal A. Herath.

Bill Jolly

INTERNATIONAL COMMUNICATIONS AGENCY, an agency of the Executive Branch of the US Government, with headquarters in Washington, came into being on 1 April 1978. Director John E. Reinhardt reports to the US President and to the Secretary of State. One of the 4 Associate Directors is in charge of the Voice of America. VOA sends out 803 hours of programming a week in 36 languages via SW and MW to an estimated 75 million listeners. A total of 109 active transmitters are employed in the USA and overseas, generating a total power of 2 million watts. There are 25 studios in Washington, 3 in New York City, 1 each in Chicago, Los Angeles and Miami. Operating budget for fiscal year 1978 was \$67.3 million.

Blossom NASWA Listeners N'book.

RADIO NEDERLAND has EE from the relay base at Tala Madagascars at:- 1430-1525 on 17855, 11740 to Sth & East Asia; 1830-1920 on 11730, 6020 to Central/East/South Africa; 2030-2120 on 11740 & 11730 to Central/West Africa.

via JSWC

NEW ZEALAND RADIO DX LEAGUE

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NEPAL has been heard on 17800kHz with EE Nx at 1450-1500; also on 15195 or 15200 with EE nx 0220.
UADX

PORT MORESBY was noted by many DXers on 4760 in early June. In reply to reception reports, NBC's DX Officer Jack Arifeae advises that a fault occurred in the crystal switch, halving the 9520kHz frequency. It was almost 5 days before technicians discovered the fault.

Arthur Cushen, Jack Searle, Bryan Clark

DOWN UNDER DX SURVEY No.10 is now available from DUDXC, 7 Donald Road, Burwood, Victoria, Australia 3125. For 3 IRC's (or 50 cents Australian stamps) keen DXers in Australia/NZ can receive an airmail copy of this valuable Asian DX newsletter. Highlights of the crammed 12 foolscap pages: Band Survey 4000-5100kHz, Clandestine News from Asia; Broadcasting in Laos, DXing from Western Australia, and plenty of Indonesian news.

TWR GUAM has got badly behind in their correspondence, resulting from the illness of one of their key personnel. They are valiantly trying to catch up, and are fairly certain they will be able to soon turn around listener mail reasonably quickly. If you're waiting for a reply, please be patient. EE is scheduled 1000-1100 on 11780 or 11890, 1430-1500 on 15135 and 11900 or 11890, 0030-0100 on 17830 & 17855 (latter continues till 0130 GMT. Check Bandwatch for late frequency changes.

via BC

POLISH PATHFINDERS Radio has been heard opening on 6195kHz at 1000 GMT.

SRK 6/78

SOLOMON ISLANDS independence was celebrated on 7 July.

Cecil Symmes