



# NEW ZEALAND DX TIMES

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## LEAGUE A.G.M.

The League's 29th Annual General Meeting will be hosted once again by North Otago Branch, and held on Saturday 15 October 1977. The programme consists of a get-together in the Lounge of the Brydone Hotel, Oamaru at 11.30am, a Smorgasbord luncheon at 12 noon, and the meeting proper will get underway at 1.30pm. After the AGM, DXing and refreshments will be available at the Branch Listening Post, overlooking the city. Those attending are requested to notify M. Bloxham, 14 O.R.D., Oamaru as soon as possible, so that catering arrangements can be finalised. In connection with the AGM, branches are reminded to forward entries in the Columbus Trophy to the Competitions Secretary, P.O. Box 1313, Invercargill as soon as possible.

## TWR GUAM ON AIR

Yes, TWR Guam are on regular shortwave broadcasts at last. Test programmes in the evening period began on Sunday 4 September. Those DXers lucky enough to catch KTWR that day and report on reception, will receive suitably endorsed 'first day of broadcasting' QSLs. Frequency Coordinator David Fisher writes that only one transmitter was in use most of the first two days, but by 6th September 98% of the evening schedule was being met. This was the first day on which programmes were beamed on the southern azimuth, to Indonesia 1015-1100 GMT on 11705kHz. David suggests that this will be the most favourable transmission for NZ. The 4 September-5 November schedule is as follows:

0900-0930 English, 0930-1000 Japanese, 1000-1100 English, all on 11780kHz to Japan. 1015-1100 in English to Indonesia on 11705kHz. 1100-1130 in Cantonese, 1130-1300 Mandarin to Southern China on 9640 and 11705kHz. 1300-1330 Vietnamese, 1330-1400 Laotian, 1400-1500 Cambodian, all to S.E.Asia on 9670 & 11705. Morning transmissions are expected to begin on 24 September, according to the following schedule: 2100-2200, 0000-0100, both in Russian to Asiatic USSR on 15155kHz. 2200-2300 in Japanese to Japan on 15155. 2300-2400 in Mandarin to China on 15155 and 11705kHz. Indonesian is scheduled 2200-2245 on 15175 or 15155. 0000-0030 Vietnamese to S.E.Asia on 15175 or 15155. 0030-0130 English on 15175 or 15155 to S.E.Asia and India.

Some time periods will be temporarily filled with music and English announcements. Japanese broadcast times were moved to earlier evening time-slots to avoid duplicating the hours of FEBC's Japanese programmes.

Shortwave reception reports of Trans World Radio Pacific should be directed to the following new address: KTWR, P.O.Box 00, Agana, Guam 96910.

**INSIDE HIGHLIGHTS:** Another QSL from Bhutan, news of more new Japanese SW receivers, twice-yearly Continents Listings, the 1978 Medium Wave Plan for NZ, 2 League members visit Radio Andorra, FM in Wellington, Auckland Branch back in business.

It is with regret that we record the passing of Australian DXer Alex Kotow on 27 July, at the age of 30. Many members will remember Alex attending the League's 1971 Convention in ChCh.

CLOSING DATE NEXT MONTH: THE USUAL FIRST MONDAY, 3 OCTOBER. LET'S HEAR ABOUT YOUR DX, QSLs, BEST-OF-THE-MONTH ENTRIES AND LADDER TOTALS. OUR ADDRESS - BOX 2956, WELLINGTON.

## 2 FROM THE BRANCHES

SOUTHLAND The Annual Meeting of the Branch was held at the residence of the Patron, Mr O.Crawford on 27 August. Election of Officers: Patron Mr O.Crawford President S.Greenyer, V-P's P.Aronsen & L.Mazembeck, Secretary Mrs I.Simpson, Treasurer E.McIntosh, PRO A.Cushen, Competitions S.Greenyer & Mrs I.Simpson, DX Digest M.Branks & E.McIntosh & R.Crawford. Stationery C.Chester. Best of Year Awards: Ray Crawford CMJG Cuba 1270 1kw and Arthur Cushen Austrian Army 6221 1kw. Monthly competitions: ECB to A.Cushen YVLL 670 and S.Burtenshaw VOA Munich 1196. SW to P.Aronsen Nigeria 4990 10kw and Austria 17845. After the meeting, husbands and wives enjoyed competitions and a delightful supper. E. McIntosh made a presentation to Mrs O.Crawford and expressed the thanks of the Branch for their continued interest in the hobby.

NORTH OTAGO The Branch AGM was held at the Listening Post on 1 September. Peter Grenfell is new President, Ito Tsukigawa Vice President and Muriel Bloxham Secretary. All branch members have a committee job to do. The branch's Auction will be held at the Listening Post on Saturday 24 September at 8pm. The Branch meeting will be held prior to the auction, at 7.30pm. Once again, the League AGM will be hosted by North Otago Branch. See page 1 for details.

CANTERBURY The Branch AGM was held at the Riccarton Lodge Hall on 20 August with 7 members attending and 4 apologies. General business included the forming of a membership committee which will swing into action at the next meeting. Election of Officers: President R.Boundy, Vice President L.Cullen, Secretary P.Mott, Treasurer M.Smith, Competitions Judge M.Smith. Trustees Messrs Boundy & Smith. Competition Results: Best ECB verie D.Ricquish KCRG, Best SW Boundy & A.Hadler SABC 4875, BC Cup, most veries A.White, SW Cup, most veries A.Hadler, Dunkley Cup 6 best BC veries D.Ricquish, Dunkley Cup 6 best SW veries A.Hadler Reed Cup most A/NZ veries A.White, Ed Maurice Cup most open BC veries A.White, A.Robson, B.Withers. Agregate Cup, most veries all sections - A.Hadler. Branch correspondence should be addressed to Secretary Peter Mott at 31 Victors Road, Christchurch 2. The next meeting will be held at Jamie Hines', 34 Celia Street Redcliffs, at 8pm on Saturday 2 October.

WELLINGTON 14 attended the Branch AGM at Bryan Clark's on 26 August. A vote of thanks was extended to the outgoing committee by Bruce Lister on behalf of those present. Officers elected for the 1977/78 year were: President John Mainland, Vice Presidents Trevor Phillips & Leigh Morris, Secretary/Treasurer & Capital DX Editor Paul Edwards, Competitions Judge John Wysocki. Annual Awards: Gurney SW Cup to Dene Lynneberg & Paul Edwards Congo 3232 4kw, McKenzie MW Shield Dene Lynneberg Portugal 1578 10kw. Hutt Valley Merit Trophy Bruce Williams. It was decided that the 'Capital DX' newsletter would be issued on an irregular basis in future, as sufficient publicity of meetings was achieved through the 'Times'. Branch subscriptions will remain at \$1.50. Monthly competitions: SW Senior:Lagos 15120 John Mainland and Swaziland 4760 Bryan Clark. SW Junior: RSA 11900 Bruce Lister and Sudan 5039 Paul Edwards. ECB Open: LRA6 Mendoza 960 Bryan Clark, A/NZ ECB 3YR Reefton 1510 100w Dene Lynneberg & Philip Brooks. The next meeting will be held at John Wysocki's, 8 McDonald Street, Taita at 8pm on Friday 30 September.

AUCKLAND The August meeting of the re-formed Auckland Branch was held at the NZART Western Suburbs Branch Clubrooms on the 21st, with 12 members present & 5 apologies. Full support was shown by all members to the reforming of the branch, which was officially brought out of recess. Revision and amendments were made to the old constitution and election of officers resulted: President Bill Huddleston, Secretary Treasurer John Allchin, Committee: Mark Nicholls and Ian Hitchiner. General discussion concerned the possibility of local members joining Waikato/Bay of Plenty members in a DXpedition to Ohope, and future activities of the branch. The September meeting will be held on Sunday 18th, once again at the NZART Clubrooms. All League members in the Auckland province are welcome to join the branch in future activities, and should any further information be required please contact John Allchin, 18 Burwood Crescent, Remuera 5. Phone 545-879. (On behalf of all League members, we wish Auckland Branch every success! Ed.)

# BROADCAST DX with Bryan Clark 3

THREE NEW CLEAR CHANNELS! 1ST RECEPTION OF NEW BROADCAST COUNTRY BY MEMBERS.

Keep your ears open - it's all been happening! To summarise - on 7/8 1ZK Kai-taia moved from 1440 to 1010, the latter frequency having been vacated by 1YK moving to 830 in synchronisation with 1YX Whangarei, 24 hours. The reason for 1ZKS move to 1010 was reportedly due to overseas stations causing interference on 1440. On 21/8 1ZN Whangarei moved from 970 to synchronise with 1ZK on 1010. A week later, 1YE Kaikohe moved from 1050 to 970, 24 hours. So, we now have 1ZN/ZK synchro on 1010, 1YX/YK synchro on 830, and clear channels 1440 & 1050. Some DXers were lucky enough to catch 1ZK solo on 1010, but such may be a rare opportunity in future.

Finally, at 1200 GMT on 27/8, 1XI Radio I closed down on 1590, and some 2½ hrs later resumed on the new frequency of 1330. Format is now 'Beautiful Music' and talkback. Their move to new spacious studios is imminent. Once again Radio Hauraki is playing old jingles advertising 'top of the dial'. Remember when...

Two further frequency changes are afoot. 2ZP New Plymouth is due to go to 1050 from 1370 in mid-December, while 1ZB 1070 may make an early move to 1080, its allocated frequency in the 9kHz Plan to be effected in November 1978. A full list of the new frequency projections appears elsewhere in this issue!

John Allchin, Arthur Cushen, Phil Brooks, Tune In & BC

During August, both Victoria University and Auckland University broadcast under short-term warrants. 1XB Radio B 950kHz 100w was on-air 14/8 to 20/8. 2XA Radio active 1260kHz in Wellington has received reports from as far afield as Tauranga and a ship in Foveaux Strait! They were also apparently heard in Melbourne! A Federation of Student Broadcasters has been set up in Wellington, composed of the student stations in Auckland, Hamilton, Wellington and Christchurch. They will seek more permanent licences to broadcast throughout the University year.

John Allchin, Gary Lewis & BC

The first of the latest batch of broadcast warrant applications, Gordon Dryden's Radio Manukau, was stalled by legal technicalities introduced by some opposing groups, but the hearing should be underway again by now. Meanwhile, a company led by Aucklander Colin Lehmann has been formed to launch Radio Rainbow in Rotorua. They hope to apply for a private radio warrant later this year. In line with their application for a network of stations in South Canterbury, Radio Avon carried out field tests with 1kw and 10,000 cycle tone on 1360kHz from Ashburton on 7-9 August 2200-2300 GMT, according to Ron Killick in Tune In. Watch for future tests from Timaru and Oamaru on 1360.

The non-profit, non-commercial station being promoted by the Wanganui Broadcasting Association has moved closer to reality with the groups incorporation. The callsign 2XR (R for recreational) has been allocated for the venture, and a power of 30 to 100 watts proposed. \$10,500 will be needed to get on air, with annual operating costs between \$2000 and \$5000. Programmes of general cultural, educational and religious significance would be aired 3 or 4 evenings per week, between 7.30 and 10.30pm.

Phil Brooks

On 30/9 1XX Radio Whakatane's transmitter will be relocated by the airport, where it will provide for better reception to the Bay of Plenty area. D. Watson

This month we feature highlights of a visit to Cape Jervis, south of Adelaide, by Ray Crawford, in company with Chris Martin, John Pickering, Harry Weatherley, John Campbell, Keith Barton and Robert Chester. League member George Kuznecov loaned a Drake SPR4, to complement Chris', and two 500m beverage antennae were used, one favouring Africa, the other Europe. Highlights were FR3 Mayotte (the island in the Comores Group which elected to remain French, when the rest became independent), Sao Tome, Mauritania and Andorra 818. SABC have permanently rescinded their plans to leave MW altogether, so there's still hope for us Kiwis to hear South Africa on the broadcast band again, hi!

Late October sees daylight saving and economic cutbacks in TV hours, so let us see a compensating increase in your DX. Yank reception is improving!



BROADCAST MAILBAG

DAVID RICOQUISH Christchurch reports 1XI 1330, RRI 1044 and 1052, Avon test 1360. No QSLs. Looks like a good season ahead. Good luck with exams!

PHIL BROOKS Wanganui is planning DX-peditions to the Bay of Plenty and Hawkes Bay. Meanwhile reports to 3Z0, 3YR, TR, SH, 1ZK 1010, 2BZ (2nd), 2CN & 7SD. QSLs 3Z0, YR, 7SD & 1ZK 1010. Tai Sorry insufficient space for all the news re 2XR.

JOHN CAMPBELL NSW appears to have missed some of the best Cape Jervis DX, but has rounded up some good QSLs - KMJ, CFON, CHUM, JOSF, KCEY, Maputo 737 Hong Kong 545, Bayrak 1095, and long-outstanding CDBI and St Pierre 1375.

RAY 'OKKA' CRAWFORD Invercargill QSLs are Monteria 1080, Spain 1223, Sabah 665, 2EA, 3YR, Portugal 1578, CP91 580 (imagnifico!) & Saarlouis 180 on LW. Tiwai reports HCRB5 1345, 3YR, Austral 1540, Condor 1540, Caracol 1545, Vision 1260, Cinco 1260. Aussie reports - 2XX 1010, 2WA, 5WM, 2RE 1557, 6GE, 5AU 1240, 3CR, 4CD, Korea 605, Ujung Padang 1545, Diego Garcia 1475, Seychelles 1331, Malaysia 945, 1140, 1224, 1278, Reunion 602, 665, Mauritius 683, Tanzania 656, 1214, Morocco 935, 1115, Zambia 818, 1070, Andorra 818, Sudan 764, 1295, Kenya 746, Comores 1088, Malagasy 1562, 1602, D.W.C.W 1022, Angola 1088, Qatar 952, Denpasar 1206, Sabah 576, Kenya 611, Mozambique 836, 782, 872, Cairo 1155, Libya 827, Uganda 809, 575, MAYOTTE 1457, Malawi 755, 674, Congo 1475, Mauritania 1349, Gabon 1554, Swaziland 1376, Oman 1240, Rhodesia 1000, 1255, Turkey 701, Jibuti 1538, Iran 720, Guinea 1403, Senegal 764, Banda Aceh 1251, Angola 702, Sao Tome 944 - 28 new countries too! Whew!!

PAUL RAWDON Lower Hutt has QSL'd VOA Rhodes 1259 & Sharjah 1575.

JIM BENZONI Hamilton has QSL'd 1XA.

PAUL ORMANDY Oamaru advises a single report out to 1XI 1330. Veries from 3YR, 2ZK, KTSA & Jayapura 1053. Yes, will be at AGM. Hope for Sunshine.

ROBIN CHAMBERS Opunake has reported EAK37 1394 tent, CJOI, XEAI & KLIV. QSLs from 3YR, BBC Cyprus 720, Zaracay 965 & pennant, Mogadishu 963 & CJOI. Yes conditions improving here too.

STEPHEN LILLIS Auckland is now using a new National RF1180B 6-band receiver, which has resulted in reports to 3NE, 2CA, 1ZN 1010, VOA Thailand 1580. K.M.F.S 1300 & Calcutta 1130 logged.

4 CHRIS MARTIN Sydney reported the following on the Cape Jervis South Australia DXpedition: 2RE 1557 test, RRI Ujung Padang 630, 6VA, GE, GA, 1ZK 1010, Pontianak 1233, Banda Aceh 1251, Medan 855, Ciribon 864, Palembang 1287, Sabah 576, Kendari 954, Malaysia 1140, 1278, 1224, 945, Tybad 720, Hanoi 1010, Turkey 701, 890, 1061, Oman 1240, Iraq 692, RAI 1448, Andorra 818, Rumania 854, Yugoslav 683, 809, South Korea 605 test?, Cairo 1155, Jibuti 1538, Morocco 1115, Luanda 702, Libya 827, Swazi 1376, Mauritania 1349, Salisbury 1255, Gabon 1554, Sao Tome 944, Mozambique 782, 836, 872, FR3 MAYOTTE 1457, Senegal 764, Sudan 1295, Algeria 548 & Guinea 1403. QSLs from 3Z0 (1 year!), WKWF & WWWE. Whew too!

CAPE JERVIS DXPEDITION HIGHLIGHTS

25-28 August 1977

- 548 Algeria fair 2130 AA mx.
- 566 Unid woman over Syria 2115.
- 575 Uganda on jazz good 1915.
- 602 Reunion good 1730.665 later.
- 611 Kenya Swahili nx good 1800.
- 620 Tanzania Swah.nx over Cairo 18.
- 674 Qatar //952 AA news 2100, good.
- 683 Mauritius BBC Nx relay 1800.
- Yugoslavia mixed Spain 2130.
- 702 Luanda in PP 2100, talks, good.
- 720 Tybad Farsi nx 1630 over 4YZ.
- 728 Uganda EE Nx 1800 over Abu D.
- 755 Malawi //674 EE pops 2000.
- 764 Senegal over Sudan 2145.
- 782 Mozambique s/off 2015 in PP.
- 800 Jordan in clear 2115, AA mx.
- 809 Yugoslavia & BEC mxd good 2145.
- 818 Andorra clear FF pops 2220.
- 819 Cairo on AA music 2220.
- 827 Libya with chimes, id 1830. AA nx
- 872 Beira PP nx over Ethiopia 1900.
- 892 Fiji now drifted here 1800.
- 908 Kampala with EE nx, good 1815.
- 935 Morocco AA news good 2100.
- 944 Sao Tome EE Svce id, t/c 2130.
- 995 Qatar on EE Nx, weak 1700.
- 1070 Zambia on phone show in EE 2000
- 1088 Comores mixed Angola 1900.
- 1133 Kuwait AA 1645. EE now on 1345.
- 1223 Mozambique PP pops 1730.
- 1255 Rhodesia id 1830 then drama.
- 1349 Mauritania on chants 1930 good.
- 1358 Unid testing with EE/FF/PP 1850
- 1367 Senegal on FF classics 2120.
- 1376 Swaziland pops, full id 2100.
- 1403 Guinea on Afro music, poor 2120.
- 1457 FR3 Mayotte s/off with full id and anthem of France 1800.
- 1475 AFDG Diego Garcia Top 40 1415. Brazzaville with FF afro mx 193
- 1554 Gabon on African music 1730.
- 1562 Malagasy //1602 at 1700.



# BROADCAST TRAIL

## MORNING

550 KMVI Glen Campbell exc 1502. PE  
 590 KGMB mixed JOAK 1503 PE  
 612 Iran good 1904 16/8. RCh  
 728 Abu Dhabi strong 1915 16/8. RCh  
 650 KORL 1440 pop powerhouse. PE  
 737 Israel EE Wx, good 1813 15/8. RCh  
 750 Sabah? Koran at 1505, mixed. PE  
 773 Cairo exc 1905 16/8. RCh  
 844 Gilbert Islands 1814 Island mx PE  
 854 Harrar fair 1835 west bev. RCh  
 872 Addis Ababa fair 1835 15/8. RCh  
 Orchestral poor 1855, prob RR. RCh  
 908 Baghdad good 1815 15/8. RCh  
 920 ?? Eastern type over 3YZ on NW  
 beverage 1910-1915 22/8. RCh  
 944 Asmara fair 1815 15/8. RCh  
 953 AA 1835-1845 21/8. Syria? RCh  
 963 Mogadischu good 1815 west bev." RCh  
 1020 HLAW fair 1303. PO  
 1040 KHVH 1506 exc with CBS Mx. PE  
 1043 Tbilisi good //1088, 1845 25/8 RCh  
 1044 RRI Biak exc 1304. PO  
 1047 DXLL 1233 to s/off 1500 fair. PE  
 1053 RRI Jayapura exc 1305. PO  
 1055 Malaysia 1306 poor. PO  
 1080 North Korea exc 1307. PO  
 1098 Sumenep with EE pops 1308. PO  
 1106 Cairo exc 1820 15/8. RCh  
 1140 VOA Poro exc 1307. PO  
 1188 Iran strong 1820 15/8. RCh  
 1250 Vladivostok excellent 1310. PO  
 1259 VCA Rhodes exc 1820 15/8. RCh  
 1285 North Korea exc 1311. PO  
 1295 Sudan excellent 1920 22/8. RCh  
 1322 BBC Cyprus good copy 1828. RCh  
 1350 JOER excellent 1313. PO  
 1358 German briefly 1905 21/8. RCh  
 1421 Saarbrucken poor 1849 23/8 RCh  
 1475 Austria good in GG 1850 23/8. RCh  
 1502 Szczecin good 1905 22/8. RCh  
 1538 Djibouti fair 1900 16/8. RCh  
 1555 DYL to s/off 1336, fair. PO  
 1590 Two JO's in clear 1317 20/8. PO  
 1602 German good 1902 22/8. RCh

## BROADCAST MAILBAG continued

PAUL EDWARDS Wellington has verified  
 DXED 1016.8. Reports from home: KGIL  
 PJB, KCRG, DXLL 1047. During a few  
 days visiting Robin Chambers Opunake  
 - CBK, AFNT 1550, Gilberts 844, Yemen  
 755, Abu Dhabi 728, Baghdad 908, Light-  
 house 1165, KCEY, KGER, KKUA, KIKI, KRLA,  
 KUHL 1440, KJR, KLIV 1590, KBBQ 1590. OK!

SUTTON BURTENSHAW Invercargill logged  
 HJBO 910 at Tiwai. At home: 2LT 1380,  
 1XI 1330, 1YE 970, 1YK/YX 830. QSLs  
 Munich 1196, Abu Dhabi 728, 2EA, HJZI  
 1550, HJFT 1025, 2LT 1380, Iran 612.

## EVENING

550 KMVI 0653 with pops wpod. PE  
 590 KGMB exc with pops 0639. PE  
 640 KFI briefly over NZ 0645. PE  
 790 KABC vg with advt & phone show  
 800 XEROK vg pops 0620. FE/0611 PE  
 850 KOA fair-good 0621 phone show. PE  
 870 WWL over 2GB null 0920 16/8. RCh  
 910 KNEW good 0622. PE. 0833 good. RCh  
 1030 KTWO 0624 excellent. PE  
 1050 Samoa poor-fair 0717-1000 s/off,  
 EE, 28/8 1st night clear. BC  
 Canadian thru Samoa 0650, 31/8. BC  
 1100 KFAX over 3ZB null 0830. RCh  
 1165 Caribbean Lighthouse gd 1002. RCh  
 1170 KVOO country mx fair 0550. BC  
 very good with c&w 0612. PE  
 1190 KEX good 0610. PE  
 1233-4 RRI Pontianak fair 1105. RCh  
 1260 KGIL 0553 MOR mx & advts, poor. PE  
 1265 Paradise fair 1002 17/8. RCh  
 1360 KGB fair 0755 22/8. RCh  
 1390 KCEY fair 0603 21/8. RCh  
 1430 KALI exc in SS 0600. RCh  
 1440 CJOI Nx, wx 0600, s/off 0605 13/8."  
 ?? SSB Anthem s/off 0558 12/8. RCh  
 XEAI "Radio AI" good in SS with  
 freq idsents 0725-0745 16, 18/8."  
 XEAI fair 0618-0640 22/8. BC  
 1570 CKLM with FF disco 0615-0747  
 11/9 often strong. PE, JW. (Need-  
 less to say only XERF 12/9! BC)  
 1578 Portugal fair 0603-0625 11/9. BC  
 1580 KDAY vg past 0630 rock mx. PE  
 1590 KLIV over Aussie null 1052 gd. RCh  
 Wx news 0728 31/8, fair. BC  
 KUUV jingle idsents 0629 28/8. BC  
 Unid SS 0658 31/8 with time pips  
 on hour. Suspect XEVOZ. At 0720  
 12/9 likely same SS on GMT-6. BC  
 1600 KCRG 0540 pops poor-fair. PE

## CONTRIBUTORS

Thanks to Robin Chambers, Paul Orm-  
 andy, Paul Edwards, John Wysocki and  
 Bryan Clark.

## QUEENSLAND TRAIL FROM ERNIE MOORE

1037 Thailand with vocals, anncs 1440.  
 1047 DXLL good in Tagalog 1442, vocals.  
 1170 4CC Charters Towers relaying 4AY  
 in 2CH null 1030 14/8.  
 1331 Seychelles nice peaking 1540 FF.  
 BBC Nx 1600.  
 1345 Bangladesh 1520. Later mxd Kuwait.  
 1385 Indonesian with vocals 1450.  
 1602 Malagasy fair signal 1631. Talks.

## BEST OF THE MONTH

CP91 Radio Panamericana, Bolivia  
 580kHz 10kw 154pts (EXCELLENT!!)  
 SENIOR:- RAY CRAWFORD, Invercargill

# N.Z. FREQUENCY PLAN 1978

BROADCAST TRAIL 6

Below are the projected frequencies for NZ medium wave stations, to take effect on 23 November 1978, received via David Ricquish. Frequencies have 9kHz separation, and will be common to Europe, Africa, Asia and Australasia. The Americas will remain with 10kHz separation between frequencies, so there'll certainly be some interesting DX from that area, although our chances for Europe and Asia will be diminished. Currently we have 47 totally clear channels in NZ. Given the same station numbers under the 9kHz plan, there will be 51 "American" frequencies which are 5kHz or more away from an occupied NZ frequency. Yank 'graveyard' channel 1450 will be lost to us, but we will gain 1400kHz. 1230 remains clear but 1490 will be 'wedged between Twizel on 1485 and Taupo 1494. So to the list...

567 2YA Wellington	954 1XW Hamilton	1260 3XA Christchurch
630 2YZ Napier	963 3YC Christchurch	1278 2ZC Napier
639 4YW Alexandra	981 1YE Kaikohe	1296 1ZH Hamilton
657 2YC Wellington	1008 1ZD Tauranga	1314 2YW Gisborne
675 3YA Christchurch	1026 1ZN Whangarei	1323 3ZM Christchurch
720 4YZ Invercargill	1ZK Kaitaia	1341 2ZN Nelson
747 3ZA Greymouth	1035 2ZB Wellington	1350 1ZC Rotorua
756 1YA Auckland	1044 4ZB Dunedin	1386 1ZT Turangi
783 2YB Wellington	1053 2ZP New Plymouth	1413 1ZO Tokoroa
792 2ZK Hastings	1080 1ZB Auckland	1431 4XD Dunedin
810 4YA Dunedin	1098 3ZB Christchurch	1449 2YM Palmerston Nth
819 1YZ Rotorua	1116 2YX Nelson	1458 3YW Westport
837 1YX Whangarei	1134 4YQ Queenstown	1476 1XA Auckland
1YK Kaitaia	1143 1YW Hamilton	1485 3ZO Twizel
846 2ZD Masterton	1152 3ZC Timaru	1494 1ZA Taupo
864 4ZA Invercargill	1161 2ZM Wellington	1512 1ZU Taumaranui
882 1YC Auckland	1197 2ZW Wanganui	1539 2ZE Blenheim
891 2XW Wellington	1206 4XO Dunedin	1557 2ZH Hawera
900 4YC Dunedin	1215 1ZE Kaikohe	<u>Possible allocations</u>
918 3YZ Greymouth	1242 1XX Whakatane	1332 1XI Auckland
927 2ZA Palmerston North	1XX Murupara	1503 3YR Reefton
945 2ZG Gisborne	1251 1ZM Auckland	

## BROADCAST MAILBAG continued

LEIGH MORRIS Palmerston Nth has reported JOUB, KEX, 7HT. Thanks Leigh.

HARRY WEATHERLEY Victoria advises QSLs from Tropicana & pennant 540, VOA Marathon, KRLD, KXYZ, KRVN after 22 months, WSM, WWWE, 2YC, 3ZZ, OAX4A, VOA Rhodes 1259, Hong Kong 545 for entry 45. Reports to Hong Kong 545, Baghdad 908, Pyongyang 655, Andorra 818, Burma 955, Seychelles 1331, TWR Cyprus 1232, Nairobi 611, Kuwait 1345, Saudi Arabia 587, Libya 1124, Reunion 665, Madagascar 1603, Diego Garcia 1475, Mauritius 683, Abu Dhabi 728 - loggings from Cape Jervis South Australia DXpedition. Tx for Drake mod details Harry.Writing.

ARTHUR CUSHEN Invercargill reports TIJP 1225, HJDO 910, Miramar 1270, XEDF 970, 1XI 1330 & KPUR 1440. All except 1XI logged at Tiwai. Veries from YVLL 670, 2LT 1380, 1ZK 1010.

BRYAN CLARK Wellington logs Samoa

1050, 2ZT, 4AN, XEAT 1440, 1ZK 1010, 1ZN 970. QSLs LRA6 Mendoza, Austria 1475, 3 NZ.

NORM MAGUIRE Honolulu has reports out to 4BH, 7ZL, Fiji 890, DZHH, KLOK and another try for WSZD. Veries in: Fiji 640, 2CO, KO, 4GM, 5DN, LC, KAMX, KINN, KAFE, KVKM, KARN, KTLK, KREX, KERE, RRI Jayapura 1053 (country 71) & KEND. The above should interest you & Hank, Norm. Assume Hawaii must stay on 10kHz spacing, so will be new ballgame both ways!

IAN CATERMOLE Blenheim reports 1ZE, 2CH, 2GO, CN, 3TR, YR and KEX. QSLs from 1ZE, 2CN, GO, CH, 3CV, UL, YR, 4GG, SB, 5SE, 7SD, KEX and JOOR. Conditions improving now.

JOHN ALLCHIN Auckland advises loggings off 1ZK 1010, Lahad Datu 665, 2BL, 1YE 970, 4BU, 4SO, 3SH again. QSLs 2BL, NC, 1ZK 1010, 1YX 830 (before synchro), 4MS & Lahad Datu 665. Yr contributions appreciated John.

ERNIE MOORE Queensland has reports out to DYRF 1185 (last month's mystery), 4CC Seychelles 1331, Bangladesh 1345 and Malagasy 1602. Thanks for Trail Ernie.

# CAN-AM REPORT

BROADCAST NEWS FROM EUROPE/AFRICA 7

PERU The Head of the National Information Service has announced that a national broadcasting network, which will cover the whole country, is to begin broadcasting on 27/7. The 35 stations will be linked to a microwave system. BEC MS (c)

VENEZUELA According to Bruce Earle, CE for XEROK 800, the 1000kw transmitter of Radio Millon, Costa Rica has been sold and shipped to Venezuela. (See Feb 77 DX Times for further info. Ed) Jerry Starr NRC

1290 CFRW moved here from 1470 on 13/6 Winnipeg, Manitoba. IRCA

1370 KREL Corona Calif 5/0.5kw seeks new call KWRM. IRCA

1400 KWNA Winnemucca, Nevada is now 1kw/0.25kw. IRCA

1440 WNBE Winter Park, Fla 5/1kw seeks WPJK (IRCA) or WAJL (NRC).

1450 WNPS New Orleans 1/0.25kw seeks new call WXPB. NRC

KBFI Bonners Ferry Id. is new, power 1kw/0.25kw. IRCA

1460 A new 10kw at Medicine Hat, Alberta will relay CBR. Owned by CHAT which will no longer relay CBC itself. IRCA

1470 WRBD Fla has CP for 5/2.5kw U4. NRC

1490 KLNG Omaha requests KYNN. IRCA

1480 KLVL Texas ids "Radio Morales" in SS. KGLA 1540 Louisiana is in SS with ids "Radio Mil". Schatz NRC

1510 WLAC Nashville is being sold by Life & Casualty Co. of Tennessee to Billboard Inc. NRC

1530 WJZD Bridgeport, Ct is on air. NRC

1570 CKL Brandon, Manitoba 10kw is now on air 24hrs. NRC

1600 WEUP Huntsville, Ala. 24hrs NSP. NRC

LATIN AMERICAN NEWS courtesy NRC DX News

Ecuadorians - Radio Canal Tropical 805 at 0320, Voz del Tropical 1205 at 0405.

New Colombians are Radio Peninsula, Pto Assis 1170 and Radio Punto Cinco 1490 5kw in Bogota. Radio Suramericana 1160 is likely new ident for HJPF.

Costa Rican Radio Fides 1025 noted by Chuck Hutton with EE rlg to 0330, then SS. May be higher power, now regular.

Uruguayan CX144 Radio Riviera 1445 sign off is at 0400, per Arctic Radio Club.

HIAR Radio San Cristobal, Dominican Rep. is on 1465kHz.

LIBYA A new transmitter, situated at Durnah, was put into operation on 1061 on 9 June. BBC MS(c)

ITALY Milan 701 is now 30kw. via NRC

WEST GERMANY Since 1/6 WDR Cologne has been testing with Langenberg 200kw on 719kHz daily 0500-1730. Relays of WDR's 2nd Prgm will be carried till tests conclude 30/9. Reports requested to Westdeutscher Rundfunk, Testsendungen, Postfach, D-5000 Koln 1. SCDXers

SPAIN La Voz de Vega has moved from 1133 to 1145kHz. MWC via NRC

INTERNATIONAL WATERS

On 25 July, Radio Mi Amigo was due to move from 1562 to 1412kHz. This is Radio Caroline's sister station, also broadcasting from the ship 'Mi Amigo'. As noted last month Caroline is now on 962. SCDXers



mi  
amigo

FRANCE Now on 1594 are Montpellier 10kw and Nimes & Toulon, both 1kw. MWN via IRCA

GREAT BRITAIN BBC Radio Europe is expected to be on air before the end of 1978 with News & Current Affairs in EE/FF/GG 3 times daily. First outlet should be 648kHz. Orfordness 150kw is assigned here but increase to 500kw expected to counter 300kw Albanian. MWN/DSWCI via DX Post

League member HANK WILKINSON, 5028 Maiden Lane, Santa Rosa, California 95405, USA would very much appreciate hearing from NZ and Aussie DXers who use the Drake SPR4 or DSR2 for ECB DXing. He is anxious to get comments, opinions & results on these receivers - especially on selectivity and sensitivity.

BROADCAST DX Mailbag conclusion

DUNCAN WATSON Edgecumbe has QSL'd 1XW, ZC, ZO, 3ZO & VSZ1. Reports out to 1YW YZ, XI 1330, ZA, ZD, ZU, 1XX Murapara relay 1240, 2CA, Fiji 890, XEROK & WWL.

GRAEME BAMFORD Tauranga has logged XEROK, 2BN, 3ZA. QSLs from KTWO & 3ZA. Will ask Adcom to provide address info. Graeme asks that we publish comparisons of older receivers as well as the new sets. Can anyone oblige? The short supply of most older sets in could mean limited appeal Graeme.

terms of market availability & usage



Time once again for our twice-yearly breakdown of members' QSLs by continental grouping, plus details of members' favoured QSL from a nominated area. The \* alongside Oceania indicates AFAN Antarctica verified - we haven't room to have a separate column for that continent! The \* alongside your name means deletion if we don't hear from you next time around - next March, when featured continent will be SOUTH AMERICA.

BROADCAST

	<u>A/NZ</u>	<u>Ocia</u>	<u>S.Am</u>	<u>C.Am</u>	<u>N.Am</u>	<u>Eur</u>	<u>Afr</u>	<u>Asia</u>	<u>Cnts</u>	<u>Total</u>
Norm Maguire (USA)	103	31	17	20	2743	22	1	44	71	2981
Arthur Cushen	408	99	22	?	1135	128	28	424	148	2244
Merv Branks*	615	104	9	46	876	55	6	414	132	2125
Ray Crawford	330	65	37	47	250	103	12	293	134	1137
Sutton Burtenshaw	294	60	32	35	308	44	3	120	100	896
Chris Martin(Aust)	143	45	6	42	112	68	26	126	137	568
David Ricquish	263	57	4	0	142	6	0	44	47	516
Bryan Clark	111	45	27	29	142	24	4	39	83	423
Hank Wilkinson(USA)	22	31	80	55	95	14	2	96	71	396
Paul Ormandy	178	28	4	9	62	8	0	27	49	321
Jim Benzoni	166	18	1	3	48	0	0	11	25	247
Ash Nallawalla*	121	6	1	3	16	1	0	14	18	162
Bruce Cavanagh*	94	0	0	2	12	3	0	6	20	127
Stephen Lillis	61	3	0	1	0	0	0	0	5	65
Trev Phillips	7	4	0	0	1	0	0	1	8	13

SHORTWAVE

Arthur Cushen	291	**355	407	?	526	1461	472	914	243	4426
John Mainland	28	43	62	67	104	576	214	246	184	1340
Ray Crawford	97	**60	105	50	98	515	105	295	153	1327
Bryan Clark	134	*43	65	32	101	368	240	151	178	1138
Bill Huddleston	77	26	29	22	116	474	89	230	124	1080
Paul Aronsen*	35	*36	30	?	75	235	44	122	?	577
Paul Ormandy	49	**27	31	20	49	227	84	122	130	603
Keith Rogers*	40	12	31	?	74	267	45	129	116	598
Jim Benzoni	52	36	22	22	62	163	30	96	90	485
Bruce Cavanagh*	19	27	23	5	17	153	31	111	93	385
Brent Allred*	32	5	57	?	22	117	7	40	53	385
Cecil Symmes	57	14	13	?	44	116	22	64	76	330
Paul Edwards	7	14	22	12	5	75	74	67	139	299
Bill Vogel(Aust)*	38	13	21	4	18	86	31	58	100	269
Brian Gall	9	11	8	8	20	96	13	60	75	225
Ian Wells	9	11	9	8	14	44	4	31	58	130
Bill Jolly	7	0	8	2	2	32	0	25	24+	76
Ian Hitchiner	2	2	2	5	9	25	6	21	32	72
Trev Phillips	4	4	2	3	3	27	5	19	41	69
Ash Nallawalla*	17	1	0	3	4	19	3	14	36	62
Tim McSweeney(Aust)	7	2	5	0	5	11	5	19	26	54
Stephen Lillis	18	2	5	7	0	8	6	6	19	46

European Bests: Arthur Cushen Voice of the Eighth Army, Rimini, Italy 1241 800w and US Forces Athens 3000 375w/Armed Forces Central Greece 6745 500w. John Mainland Polish Pathfinders 6852. Ray Crawford Radio Caroline 1520 10kw/Greece 1493 5kw, DMR32 7265 1.5kw/Austrian Army 6255 1kw. Bryan Clark Rennes France 1241 24kw, Azores 4865 1kw/Austrian Army 6255 1kw. Bill Huddleston Andorra 6230. Chris Martin BBC Clevedon 1457 20kw. Paul Edwards 4865 1kw. Brian Gall Espana Independiente 10110, Ian Wells RFE 3995 10kw. Bill Jolly Spain 6100. Ian Hitchiner Radio Nederland Test 15110. Trev Phillips Portugal 11925 10kw. Stephen Lillis Tirana 9480, Jim Benzoni LKC Norway 21655 10kw.

+Hank W note that Central America is all countries from Mexico to Panama, plus all Caribbean islands. Bill Jolly - cnts is total countries verified, followed by your QSL total, ie adding up all continental totals. Thanks to all those who contributed and welcome to Brian Gall, Bill Jolly, Stephen Lillis, Ian Hitchiner, Paul Edwards and Tim McSweeney. See you again in MARCH 1978!

TV X  
FM D

Wellington tasted FM Stereo on 26-27 August, when a pirate FM transmitter, with output believed to be 30 watts, broadcast on 91.5MHz from a location traced to the vicinity of Victoria University by Post Office staff. "Radio Auckland" was manned by four Auckland University students, in the capital for the National Arts Festival, and reputed to have made occ-

TV X  
FM D

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asional FM broadcasts in Auckland since 1975. Most of the programmes were tapes used during a Capping Week stunt in Auckland earlier this year. The venture was aimed at showing the public the virtues of FM radio.

Bryan Clark reports being 'sold' with FM stereo, having excellent reception of the broadcasts on Saturday 27/8 from 10.54am tune in, until hurried sign-off at 12.29pm, as the Post Office moved into the Victoria University area with detector equipment. Good signals were also experienced through a small bedside clock radio, equipped with only 6 inches of wire for an aerial!

John Allchin reports that an experimental stereo FM radio broadcasting system may be set up in Auckland. This is the aim of a recently formed federation of enthusiasts, who plan to obtain an experimental transmission licence from the Post Office. Convenor Mr C.J.Wright has said that the test transmission would help gauge public reaction to FM, as well as identifying any problems associated with this type of radio system.

Further evidence that there will be a growing campaign to introduce FM broadcasting in NZ comes from the formation of the Federation of Student Broadcasters. This was one of the 'planks' in their initial press release following formation in Wellington during August.

India is the latest country to introduce FM broadcasting. On 23/7 transmission on 107.1MHz from Madras was inaugurated. Initially there are 2 hours of broadcasting daily, with a coverage of 100km. Transmitters are also being installed at Delhi, Calcutta and Bombay.  
DXD via Ash Nallawalla

Kazunori Ushigome of Tokyo is one of Japan's premier TV DXers, having received both Chinese and Russian TV on channel R1 (49.75/56.25MHz). He dreams of tuning TV stations from Australia/NZ and comments that Japanese radio amateurs using 6 metres have often received sound transmissions from Australian TV (ch O.Ed) Illustrated here is Kazunori's reception of Vladivostok R-1 at 9.10am JST with the opening of "Morning Gymnastics".

#### HOW TO TAKE PICTURES FOR TV-DX Part I

Now that summer is coming around again, it's time to take out that camera and have it handy to the TV for that exciting TV-DX. Here are some suggestions on how to take photographs of the screen. When you send off your DX report, a photo may give valuable and definite proof of your reception.

You will get the best quality in your photographs when you adjust your set so that the contrast is slightly below normal, but set the brightness control so that the highlights and shadow show up details. Move in close so that your viewfinder is filled with the TV picture. If your TV is a small portable, it may be necessary to get a close-up attachment to fit your camera. To centre the TV screen onto your film, tip the camera slightly in the direction of the viewfinder, or you may not get the whole picture. This doesn't apply to single lens reflex cameras of course.

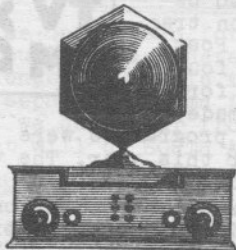
You will need a tripod if you use shutter speeds of less than 1/30th sec, or at least a solid object on which to rest the camera. If you don't, you will get camera shake and a picture which is both blurred or out of focus. Watch for reflections on the face of the TV screen. To help stop these, turn off lights near the set and close curtains/blinds.

Fred Humphries

TO BE CONTINUED



## EQUIPMENT REVIEW



+ No wonder the SWL/DX hobby is big in Japan. Known as 'BCL' (broadcast listening), the hobby is being actively promoted by the major manufacturers, who are now bringing out transistor receivers with LED digital frequency counter displays. The following details are based on advertisements appearing in recent issues of the Japan SW Club's "DX Guide" and will give an idea of the various equipment currently available in that country, with local prices (based on 260 yen = NZ\$1). No doubt the SWL hobby worldwide will soon benefit from some of the exciting sets featured.

NATIONAL's RF2200 or DR22 (see July Times) sells for \$134 in Japan, but now has an exciting big brother, the RF2800 'Proceed' at \$192. This set has LED digital frequency display, giving visual readout to the nearest 1kHz. 'Proceed' is the name given to what appears to be a communications receiver version of the RF2800, again with LED frequency readout. This is the National RJX-4800 at \$384 in Japan. The RD9810 Antenna Coupler Unit is available as a companion for the DR22 at NZ\$26. Rangewise and pricewise, National appear to have much to offer the BCL. SONY is currently promoting it's World Zone 33 CRF-330K at \$1615 with everything that opens and shuts! There are 29 SW bands, 2 for FM, MW and LW, LED digital display of SW frequencies, a quartz digital clock, built-in cassette recorder and time clock enabling remote recording. The CT-5950 Skysensor at \$218 also features a built-in cassette machine. Their best-seller is the little IC5900 which sells at \$107 - see below for more details of this. YAESU's FRG7 sells in Japan for \$227, the FR101 with digital display of frequencies - \$692. Finally, DRAKE's SSR1 sells in Japan for NZ\$267.

+FRG7 owners should note that the mHz lock-light must clearly go out and not merely dim. Ash Nallawalla reports that his worked only on the middle bands, and would not even dim on the others. The fault was promptly put right by Radio Engineering Ltd under the warranty agreement. Rumour has it that an LED readout version of the FRG7 is planned for 1978. Des Davey advises that Yaesu are marketing headphones, YH-55, for the FRG7.

+Jack Searle has been vacationing in Fiji and reports that there's really nothing on sale in the radio line that would appeal to the DXer. They hadn't even heard of the National DR22! So if you're planning a holiday up that way, it would be advisable to see what the NZ Duty Free shops have to offer. Miles and Carlaw in Auckland still have the DR22 (See July Times), but price is now up to A\$144. The duty free regulations are a little more favourable now - we hope to have details of these in a future issue.

+As indicated above, the DR22 has a big-brother. Our regular Japanese contributor Masami Onizawa writes: "In mid-May, National Panasonic brought out a new portable receiver, the RF-2800 with a digital readout system down to 1kHz. It has 28 transistors, 3 FETs, 5 ICs, and is smart in appearance. Dimensions are 381mm long, 258mm high and 143mm deep. Weight is 3.9kg, which includes 6 D size batteries. AC mains power is also available. Features are:  
Frequency Range: MW (525-1605kHz), SW (3.2-30.0mHz in 3 bands) and FM (76-90mHz). IFs are 2.0mHz (first), 455kHz (second) and 10.7mHz (for FM). Sensitivity is given as MW 14uv max, SW1 0.5uv max(3.2-8.0mHz), SW2 1.0uv(-16mHz) SW3 1.8uv(-30mHz) and FM 2.5uv. Image rejection is quoted as MW 38db at 1500 kHz, SW 32db at 6mHz, 24db at 12mHz, 23db at 24mHz, FM 32db at 89mHz. Selectivity is given as: Wide  $\pm 2$ kHz (-6db),  $\pm 13$ kHz (-60db); Narrow  $\pm 1$ kHz (-6db),  $\pm 9$ kHz (-60db). From 3.2 to 30.0mHz, one can read the frequency down to 1kHz. On MW however the digital displayer indicates frequency 455kHz, so this must be subtracted if the





## EQUIPMENT REVIEW

continued.....

the display is being used to determine frequency. This is the only problem with the receiver. (There is a conventional dial for all bands as well. Ed). Overall performance is very good. I think that the RF-2800 will be available in NZ soon, and it will catch the eye of League members. Cost here in Japan is 49,800 yen, about 166 US dollars, and cheaper than the Yaesu FRG7."

+ SONY ICF5900W. Arthur Williams recently obtained one of these novel receivers in London, and comments as follows: "It is a 5 band (MW, FM & 3SW) dual conversion (SW) portable of compact weight (2.2kg!) and size (23 x 23 x 10cm). This receiver uses a bandspread tuning system to give a readout accuracy of 5kHz on SW. The 3 SW bands are spread (by means of a special tuning capacitor) equally across the dial, and are divided into 250kHz segments. The main dial is set to one of these marks by means of a crystal marker built-in. The desired frequency is then tuned in on the bandspread dial. The band coverages are 1: 3.9-10.0MHz, 2: 11.7-20.0MHz, 3: 20.0-28.0MHz. To tune to, for example, 15220kHz, the main dial is set to 15250 with the crystal marker, and then the bandspread dial is tuned to 220. The tuning accuracy is very good, comparable if not better than the Barlow Wadley. Selectivity could be a little better on SW, sensitivity is comparable with the B-W. There is good sensitivity on MW and the set works well with a MW loop aerial, but tends to overload on a longwire. There is no RF stage. Besides the above-mentioned features, the ICF5900 has base & treble tone controls, dial light, DX-Local or FM-AFC, and BFO. I think it is an ideal set for the itinerant SW listener giving accurate SW tuning in a compact package."

+ HELP WANTED Steve Clearwater, 7c Welbourn Terrace, New Plymouth writes that he recently purchased a Drake SSR1 communications receiver. Initially he suffered bad image problems on the lower bands. Not only were the harmonics of local 2ZF 1370 heard strongly, but the station was also audible at reduced strength all through the low shortwave bands 120, 90, 75 and 60 metres. Steve solved this problem by constructing a simple wavetrap out of an old aerial coil and 365pf variable capacitor - this was connected in series with the aerial and simply tuned to 1370kHz to completely solve the image problem. He continues: "Unfortunately another problem has arisen and I fear it may be more difficult to fix. I am finding that signals from such stations as Radio Australia and Radio Nederland in particular are so strong that they are tending to obliterate about 20 to 50kHz either side of their frequency on some nights. The problem occurs only on the higher SW bands - mainly 9 and 11MHz, and although it doesn't happen every night, it is fairly regular. Otherwise, the receiver is performing very well, especially on the tropical bands." SW Mailbag Editor Tony Marr comments that he has already observed this shortcoming in another SSR1. The receiver's "front-end" is unable to discriminate against a strong signal, and in cross modulation the strong signal tends to 'swamp' all those around it. The Local/DX switch does not seem sufficiently effective, so some form of improved attenuator in the front-end might be worthwhile. There is a need to drastically improve front-end selectivity but not sensitivity, so a preselector with no gain might be the answer. Can any SSR1 owners provide a working solution for Steve?

+Coming up - a comparison between the Yaesu FRG7 and Kenwood R300 - next month.

### REPORT FROM SWAZILAND

Swaziland Commercial Radio Pty Ltd which operated under the slogan "Swazi Radio" earlier this year, is now "Radio SR". English programmes have been curtailed and are now Mon-Fri 0700-0900 and Sun 1600-1630, 2000-2200. At other times programmes are in Indian languages, Afrikaans, Portuguese, Italian and Greek.

R.Ginbey SDXers 6/77

With the nationalisation of ETLF Ethiopia and Radio Cordac Burundi, Trans World Radio is considering expanding its Swaziland facilities to cover areas previously served by these stations.

Colin Miller SDXers

THE POWER GAME A high power SW transmitter is being installed at Aligarh, which will improve all India Radio broadcasts to many areas. TWR Monte Carlo plans a new 50kw tx to improve reception all over Europe. WWDXC

## Report from Europe

Southland Branch members Neville Henry and Arthur Williams are presently touring Europe. From Arthur comes the following report on their progress:

"We are now in Passau, Bavaria, West Germany, on the sixth week of our European tour, having left the UK on 11 July. First stop was in Brussels, where we met League member Peter Pompe and his wife and family. Two days were spent in the Belgian capital, and we had an interesting time with Peter discussing DX topics and scanning the band. Peter has a good line-up of receivers, including a Drake SPR4, Collins R390A and Hammarlund HQ180A, the latter his favourite on MW. He lives in the Brussels suburb of Krainem, where there is not too much local TVI and QRM.

Next stop was Luxembourg. We visited Radio Luxembourg but were unable to look around their facilities. In Paris we visited the 'Maison de la Radio', a large circular building and HQ for Radio France International and Telediffusion de France. We were taken on a visitors tour of the studios and Radio Museum. The latter was a most interesting display, showing the development of TV and radio broadcasting from the first experiments of Hertz and Marconi. From Paris we travelled down to Spain for a brief visit. Radio San Sebastian and Radio Pamplona were logged before passing back across the border into Andorra.

We paid a visit to the studios of Radio Andorra in the town of Andorra-la-Vielle. Unfortunately, being a Sunday, there were no staff on hand to show us around, but the main foyer was open and we could see the DJ on duty through a glass screen. The foyer had photographs of the station's facilities and staff, and a collection of old transmitting valves. A note beside a photo of the transmitting site indicated that visitors were permitted, so we set out to find it. Just a few kilometres along the road we found the transmitter building, a quaint stone construction in Andorran style with a round tower on one corner.

A technician on duty was able to show us over the plant. Their MW transmitter is a 300kw Brown Boveri with an ancient 1936 transmitter of 160kw for standby. The 25kw shortwave transmitter is of American manufacture. The 3 tubes of the 300kw unit are water cooled, with the water then being used to heat an outdoor swimming pool for the staff who live at the station. The main MW antenna is located atop a hill, at a height of 2000m above sea level, and is fed by a 1000 metre feeder line. A lake beside the masts provides an earth system. The antenna itself is a vertical, supported between 2 masts 127m high. A Franklin antenna for shortwave is located adjacent to the transmitter building. We had a bit of fun conversing, as the technician spoke only a little English. Fortunately I was able to speak a little French, so we managed to communicate! Radio Andorra broadcasts in French and Spanish, as well as the local Catalan dialect.

From Andorra, we passed back through France to Switzerland, where we visited SEC in Berne. We were shown over the studios by Walter Fonkhauser, President of the Shortwave Service and by the Chief of the Line Radio Service. SEC broadcasts programmes in half-hour language segments. Their aim is to tell the World about the Swiss way of life, and provide an unbiased, unpolitically orientated news service. They are interested in reception reports which give constructive criticism of their programmes. The Line Radio Service provided by SEC is rather like 'piped music'. Six channels of programmes are provided via telephone lines. By use of special filters the normal phone lines are used, avoiding the need for additional circuits.

After Switzerland it was down to Italy, then up through Yugoslavia to Vienna, on to Innsbruck, to Munich and now Passau, where we are guests of League member Gunter Jacob and his wife Hannelore. From here, we hope to move on to Prague, North Germany, Holland and Scandinavia."

radio popular  
de pamplona

C/ AMAYA 2-B-1° PAMPLONA



# Shortwave Mailbag with Tony Marr

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Another month has passed, and we seem to have a pretty good collection of QSLs this time. Notable would be several new frequencies of DW Montserrat, a reply many of us still await from the Galapagos Islands, and a friendly QSL and letter from NYAB Bhutan on 4690khz. They mention that they require at least 15 minutes of good programme detail before they will verify; so watch for them on 4690khz opening at 1230 GMT Wednesdays; and also keep an ear on 4810khz at 1215 GMT for the Galapagos Islands with their daily transmissions.

Now to the mail :

ARTHUR CUSHEN Invercargill has pride of place this month with veries from KGEI 9555 WYFR 6155 ZYE239 9645 FEBA 11900 ORU 9655 HCJB 15345 Tropico 4775 DW Montserrat 9590. Thanks.

LEIGH MORRIS Palmerston Nth is next up with replies from Relej 4832 Iraq 9745 in 8 months Veritas 11725 and 5 are in the mail.

TREVOR PHILLIPS Wellington has 4 in from RA 17860 15240 9540 Tashkent 9540 also. Tricky....

NORM MAGUIRE Hawaii has 13 out and QSLs from RA 7220 TWR Bon 11925 PNG 4890 RNZ 6105 FEBC 11765 Kiev 11690. Good, let's hear from you again soon.

TREVOR KNOWLES Auckland has 1 out and has verified Lisbon 11935 Oslo 15135 RCI 6140. I think your friend on 7420 would be the Home Service in Russian from Radio Moscow.

PAUL EDWARDS Wellington has them in from DW Ant 9545 Pakistan 11750 Sudan 5039 Somalia 7121.5 Hargeisa 11646 Kiev/Serpukhov 7150 NBC 5965 Azores 4865 Fr Guyana 4972 SABC 3250 3320 3285 3955 3965 3980.

IAN CATTERMOLE Blenheim has a large collection from NHK 11940 11780 11705 7205 9530 Peking 9860 9290 VOA 6015 6145 Oslo 9590 Monaco 7105 KGEI 9555 9615 Budapest 11910 SBC 11775 9560 Cuba 11760 N.Solomons 3322 Tunis 15225 RAI 15230 HCJB 11830 11900 DW 9765 TWR Bon 11900 RM 11785 15180 17700 RA 9540 ICRC 7210 AFRTS 9755 RFI 15285 17865 RCI 6140 6150 BBC 11955 P&P 11720 BBC Tebrau 15310 9740 Cultura 6165 Nac Bolivia 4815 Dario da Manha 9675 and Centauros 5960. Busy fellow....

MASAMI ONIZAWA Japan has QSLs from Iran 9022 Lagos 4990 Cairo 17920 RNE 9505 Pori 11755 Tanzania 15435.

BRYAN CLARK Wellington has them in from Helsinki 11735 ORF 6015 11870 17840 TWR Manzini 4760 RA 21570 and there are 3 away.

STEPHEN LILLIS Auckland has 3 away, and veries from Brasilia 15245, and is now the proud owner of a new National RF-1180B receiver. Very nice.

BILL JOLLY Kawerau has 19 out, QSLs in TWR Bon 11925 SBC 15430 RM 11870 RA 15140 11810 5995 Budapest 15160 17715 Cuba 11760 RCI 9655 NHK 15430.

TIM MCSWEENEY Queensland has 5 out and a couple in from UN 6145 and NHK 9505. Maybe twice as many next month.

JOHN ALLCHIN Auckland has 12 away and replies from RA/ARDXC 11740 RA 17870 11725 Oslo 15135 RSA 11900 Kuwait 15345 NHK 17880 Honiara 5020 9545. Hope Whangaparaoa went well.

HARRY WEATHERLEY Victoria has some goodies from Nac Peru 6082 Zaracuy 3390 RSA 4875 TWR Bon 6190 Cotonou 4870 Cook Is 5045 for country 130. Coming along nicely.

JOHN MAINLAND Wellington has them in from DW Montserrat 6145 Lagos 15120 RA 15410 17745 HCJB 11900 Colombo 11835 Sofia 9530.Tq.

JOHN WYSOCKI Wellington has 5 out, QSLs from NHK 15310 15195 15105 9585 9505 SBC 15305 RA/ARDXC 5995 KGEI 5980 4VEH 11835 VOFC 17890.

BRIAN GALL Palmerston Nth has them in from RFI 15115 DW 17780 RM 9680 Sofia 9530 Budapest 17715 Bucharest 9570 FEBC 11765 AIR 11775 KBS 9525 Nigeria 7275. Very good.

TONY MARR Wellington has a loner from Bhutan 4690 for country 206.



IAN WE'LS Milton begins our second page with a couple back from DW Antigua 9545 and Athens 6140; and there are three reports away.

DES DAVEY Te Kuiti has 8 out. QSLs in are RA 9580 11810 SBC 9560 CBC 11855 Tahiti 15170 Sweden 9695 NHK 11875 and 15105. Hope the holiday went well.

CECIL SYMMES Wellington fresh from his visit to VOA territory, tells of veries from Andorra 6230 ORU 11825 Nigeria 4990 Kieta 3322 RA 9540 15410 21570.

BRENT ALLRED Motueka has 4 out, QSLs in are VLR6 6150 P&P 19mb RN Bon 9630 RNE 9505 VOFC 17720 plus pennant IBA 12045 RM 15130 NHK 15195 Athens 6140 HCJB 9745 6130.

PAUL RAWDON Wellington has 5 off, veries have appeared from RN 9630 FEBC 11765 11850 15390 BBC 21610 21710 BBC Cyprus 21660 Tirana 7120 TGNA 3300 Grenada 15105

PAUL ORMANDY Oamaru has 15 out, QSLs from Grenada 15105 Sibü 5005 Vilnius 15405 KGEI 9555, lifting the country total by 3.

RAY CRAWFORD Invercargill has them back from RNE 11920 6065 Iraq 3195 DW 7285 SBC 6045 Brasil 15245 Ondas del Huallaga 3330.

BILL HUDDLESTON Auckland reports answers from Poland 6095 Mongolia 11860 Grenada 15105 Vilnius 15405 VOG 9760 RN Bon 6165 Finland 15265 Lagos 4990 Kuwait 9586 and 12085 Sweden 9695 RSA 4875 Vatican 15120.

DENE LYNNEBERG Wellington has 11 out, QSLs back are RBI Leipzig 15125 Ondas del Huallaga 3330. More next month perhaps....

STEVEN GREENYER Invercargill has 3 in from Cook Is 3265 RSA 3250 Guatapuri 4815. Ta.

JOHN CAMPBELL Newcastle is last up this month, but by no means least with veries from Cook Is 3265 Beira 3275 Rhodesia 3306 Tanafo 3990 Galapagos 4810 Bissau 5041 NSB Centauros 5962 Kuwait 6055 Rwanda 6055 VOA Phil 6110 El Mundo 6120 Bhutan 7040 Laos 7145 DW Montserrat 11970. Some goodies there.

JIM BENZONI Hamilton sneaks in late with a lone QSL from DW 9615. 6 reports away.

ODDS & ENDS Douglas Doull of Auckland had a visit earlier this year from Radio Sweden Mailbag host Stanley Bloom, who was visiting his wife's parents in Northcote. Postage Rates are up on 1 October, but no word on IRCs yet.

## BEST OF THE MONTH

### OVER 9MHZ

Grenada 15105khz 5kw 90 pts  
Paul Ormandy

### UNDER 9MHZ

Azores CSA97 4865khz 1kw  
137 pts (Logged 26/4/76)  
Paul Edwards

Please assist editors by contributing on a decent sized piece of paper.

### QSLING RADIO CANADA INTERNATIONAL

"I sent in two reports to RCI using prepared cards and return postage. Both cards were returned to me, signed and stamped 'verified'. The return postage also came back, with a note saying it was not required, so maybe under their present QSL policy this is one way to get a verie without having to wait out the year for the annual 'do-it-yourself QSL'." Ian Cattermole

### COUNTRIES LIST/POINTS SYSTEM

A reprint of the NZRDXL Official Countries List and Points System has been completed in offset form and is being distributed this month to all new members who did not receive a copy in their New Members Kit. Copies for new members overseas will be forwarded by seamail.

Extra copies are available for members who have already received earlier editions, but a charge of 30 cents in stamps will apply. Orders to Box 2956, Wellington. Include with next month's Times contribution if you wish.

OOOPS!! We booped last month in saying it would be our 30th birthday this month. The first issue of the NZ DX Times was October 1948, so we're not quite old enough yet!

# SHORTWAVE BANDWATCH

15

coordinated by John Mainland



Many international broadcasters made frequency adjustments on 4 September. On this day, KTRW Agana Guam commenced regular transmissions and is being heard on 9 and 11MHz. Radio Cook Islands was one station to alter frequency; it is now operating on 9MHz. Radio France's low-power outlet of 4kw is again noted in the 75 metre band, while TWR Swaziland has been heard with difficulty in the 25 metre band. Broadcasts from Santiago on 9 and 15MHz have been identifying as "The Voice of Free Chile". Other frequency changes reported include Turkey on 11MHz and KGEI back on 49 metres.

ALL FREQUENCIES IN KILOHERTZ

TIMES ARE GMT (Add 12hrs for NZT)

FREQ	TIME	COUNTRY	STATION	RECEPTION & PROGRAMME DETAILS	INITS
1750	1030	AUSTRALIA	VL2UV	good in EE many nights with lectures.	JB
3210	1010	ECUADOR	Radio Federacion	gd with classical & pop music.	JW
3344+	1111	INDONESIA	RRI Manokwari	nx concluded, id 1115. Poor to fair.	DW
3350	1600	INDIA	AIR Delhi	good with news in EE.	BH
3910	0940	JAPAN	FEN Tokyo	poor, better 1000. Time sig JRM.TP.1202 Nx vg.	DM+
3916+	1302	INDONESIA	RRI Ternate	Nx, ident in II. Very good signal 19/8.	DM
3935	0515	UNIDENTIFIED	Latin here	28/8 fair. Lost into JRN 0555.	BC
3935	1913	INDONESIA	RRI Semarang	vg on extended sked for Ramadan, Moslem festival 16/8 to 14/9 this year. Others noted around this time on 3223, 3204, 3249, 3286, 3265, 3414, 3945, 4790, 4855, 4955, 4985. BC. 1143 Mx prgm, II anncts, very good.	DM+
3965	1908	FRANCE	Paris	4kw with domestic relay to Nth Africa in FF. Poor but steady past 2015 2/9. News 2000.	BC
3970+	1927	CAMEROON	Radio Buea	fair with music & talks.	MO
3975+	1254	INDONESIA	RRI Surabaya	cmts & interviews. Nx 1300 after id, vg.	DM
4650	1000	INDONESIA	RFDKO	36kw good in Indonesian.	JW
4653m+	1114	LAOS	Vientiane	tentatively the talker here poor-fair.	DW
4680+	1123	ECUADOR	Radio Nacional	Espejo vg with L.Am mx 4/8. Rapid ids.	DM
4725	1034	BURMA	Rangoon	weak but in the clear with musical prgm.	TF
4760	0435	SWAZILAND	TWR Manzini	gd with choral mx & Afrikaans anncts.	PO
4764+	1128	INDONESIA	RRI Medan	fair. DW. 1227 Rpt on Asean Conference in II //Ujung Padang 4719. Both stations vg signals.	DM
4775	0355	BOLIVIA	CP120	hrd to signoff 0400.	AC
4779	0855	SURINAM	SRS Paramaribo	good at s/on. Logged at Branch AGM.	PO.PG.
4805+	0957	BRAZIL	Difusora do Amazonas	weak level, mx & ident.	MO/TS
4825	0420	PERU	La Voz de la Selva	fair.	AC
4850	0958	VENEZUELA	Radio Capital	s/on mixed with Radio Clarin.	AC
4850	0500	ECUADOR	According to Argentine DX Club International,	the unid station mentioned in June, July Times by BC is Ecuadorian "Canal Juvenil", location unknown.	SG
4855+	1153	INDONESIA	RRI Palembang	with ident, news 1200. Vg signals.	DM
4871+	1308	INDONESIA	RRI Sorong	National Nx relay //4855, Ambon 4845, Jakarta 4805 & Ujung Padang 4985. All good to very good, 13/8DM	
4932	0524	NIGERIA	NBC Benin City	EE Nx 0530, aivts & mx at poor level.	PE
4932+	1056	INDONESIA	RRI Surakarta	with Islamic chants. Ident 1058, fair.	DW
4945	0600	COLOMBIA	Radio Colosal	vg with SS pops. JW. 0719 SS ident, vg.	DM+
4972	0930	FRENCH GUYANA	Interval	sig, time pips & FF annct.	AC
4980	0458	SWAZILAND	Swazi Comm.	Radio EE prgm & PF id 0500, till Ghana.	PO
4985+	0932	BRAZIL	Brasil Central	good, mx & talks. MO	MO
5005+	1041	SARAWAK	Sibu	vg signal 17/8. Ident in T6an 1045.	DM
5010	0910	COLOMBIA	Radio Surcolombiana	gd with mx, full SS ident 0952.	JW
5020	0532	NIGER	Niamey	exc at s/on 0530, hrd past 0600.	PO
5020	0800	SOLOMON ISLANDS	V405 Honiara	Pidgin nx vg, then EE pop mx.	JW
5020	0915	VENEZUELA	Radio Nacional	Latin mx, SS anncts, fair. B.J (V405 off?Ed)	
5030+	1035	VENEZUELA	Radio Reloj	Continente gi, rapid idents in SS, nx items separated by gongs.	DM

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	16	INITS
5040+	0741	COLOMBIA	Radio Cinco	fair in SS with vocals etc.	Id 0750, fair.	DW
5050	0500	VENEZUELA	Radio Mundial	with typical Latin prgm.		AC
5052	1600	SINGAPORE	Radio Singapore	fair-good	EE light mx.S/off 1630.	BH
5075+	1056	COLOMBIA	Radio Sutatenza	good.	5095 at 1103 different prgm	vg.DM
5955	1200	USA	VOA Dixon	with news in EE,	strong.	JB
5980	0730	USA	KGEI	with EE to Asia,	good. Replacing 9555 4/9.	JM
5987+	1045	INDONESIA	RRI Menado	with talks & mx.	Ident 1100. Very good.	DM
5990	2045	MALTA	IBRA Radio	in EE to 2100	Sunday.	AC
6000	0715	COLOMBIA	Radio Super	with weak signal.		AC
6005	0430	TANZANIA	Radio Tanzania	here with ids, mx prgm	in Swahili. Off 0500.	
6006+	0800	COSTA RICA	Radio Reloj	vg with Latin mx.	0800 ads, mx, nx.	DM /PO
6010	0515	PERU	Radio America	fair-good with popular mx	till s/off 0600.	BC
6035+	0911	BRAZIL	Radio Globo	weak signals.	QRM from NHK on 6030.	MO
6060+	0825	ARGENTINA	Radio Nacional	fair level.	Splash from NSB 6055.	MO
6065+	1030	CANADA	RCI Northern Service	fair in EE.		TMs
6070+	1209	INDONESIA	RRI Jayapura	nx in Indonesian.	1218 ident. Vg signal.	DM
6095+	0855	BRAZIL	Radio Difusora Sao Paulo	poor in PP till AFRTS	s/on.	MO
6135	0300	POLAND	Warsaw	to Nth America in EE	fair //6095. BH 0315 EE cmt.	BJ
6140	2116	GREECE	Voice of Greece	good with EE news.		IW
6150+	0706	COLOMBIA	La Voz de Huila	fair in SS with mx & many	idents.	DW
6160	0920	ECUADOR	HCJB	EE to Sth Pacific	ex 6130, 4/9. Fair.	JM
6190+	1003	VENEZUELA	Ecos del Torbes	//4980 both vg. Music	prgm, 28/8.	DM
				(This counters item on P20 suggesting move to 31 metres. Ed)		
6195	0900	ANTIGUA	BBC World Service	in EE to s/off 0915,	fair. New service.	
6205	1928	LIBYA	Mebo II,	assumed in Tripoli Harbour,	with usual pops & /JM	
				half-hourly EE ident.	Very good. Per SCDXers 16/8, address for reports is L.J.B., P.O.Box 333, Tripoli, Libya, with 2 IRCs. BC 1950 good signals. TP. 2100 popular music prgm.	AC MO+
6560	1855	CHINA	PeKing	strong in FF. News	at 1900.	JB
7070+	1057	INDONESIA	RRI Jakarta,	time sigs 1100 then	ident & mx prgm. Gd.	DM
7100	0430	BULGARIA	Sofia	in EE to Nth America,	good 4/9 ex 9530.	JM
7100+	1140	INDONESIA	RRI Jogjakarta	nx & talks in Indonesian.	Ham QRM.	DM
7155	2030	SPAIN	RTVE Nx,	Panorama exc in EE.	JW.S/on in EE. AC. 2135 EE vg.	IW
7295	1105	MALAYSIA	Penang	in EE with mx, interview.	TP. 1150 Advts, mx, gd.	DW+
7550	1503	SOUTH KOREA	Radio Korea	new freq in Korean,	fair. AA news 1701.	JM
9420	1200	NORTH KOREA	Pyeongyang	s/on in SS, good.		TP
9500	0630	ALBANIA	Tirana	with EE news, strong.	S/off 0655.	JB
9505+	0900	JAPAN	NHK Radio Japan	General Service	fair in EE.	TMs
9525+	1012	SOUTH KOREA	Seoul	with talk "Korean Progress"	in EE, v. good.	DM
9535	2058	SWITZERLAND	SBC Berne	good with "Dateline"	at 2100.	KJ
9540	0110	CZECHOSLOVAKIA	Prague	with "Topic of the Day"	in EE.	BJ
9565	0130	WEST GERMANY	DW Cologne	with news in EE,	good.	BJ
9565	0210	CHILE	La Voz de Chile	with EE talk and nx,	fair 10/9.	JM
9570	2200	MALAYSIA	BBC Tebrau	with World Service	news, fair.	KJ
9570	0130	ROUMANIA	Bucharest	with news in EE,	poor to fair.	BJ
9575+	1913	MONACO	TWR Monte Carlo	fair s/on with int. sig & RR	ident as "...Radio Monte Carlo, Monaco".	MO
9610	0801	MONACO	TWR	with religious nx in EE	Sunday only, fair 21/8.	JM
9615	0352	MOROCCO	VOA Tangiers	with EE "African Safari".	0400 Bulgarian.	JB
9640	1108	GUAM	KTWR Agana	with EE ident, QSL	details, mx. Fair 4/9.	JM
9650	0600	LIBYA	Tripoli	AA news fair 1/9 //9500,	11700, 15100.	JM
9660	2245	AUSTRALIA	VLQ9 Brisbane	Nx good but noisy.	Also at 2115 & 0707.	KJ
9675	2000	POLAND	Warsaw	in EE to Europe, poor.	QRM from IBRA 9670.	BH
9695	0800	COOK ISLANDS	Rarotonga	fair 4/9 ex 5045. RA Nx	relay, wx & ship-ping nx. Cook Islands	rhythms to s/off 0832. JM 0807 bad het, making reception rather difficult. RA nx then EE pops 12/9. BC
9735	0600	WEST GERMANY	Deutsche Welle	in GG to Aust/NZ,	s/on strong.	JB
9810	2025	LIBYA	Mebo II	hrd here at last but	mx with utility.	PO
9915	0245	GREAT BRITAIN	BBC World Service	"Sports International"	good.	KJ
11680	2050	PAKISTAN	Radio Pakistan	EE Svce fair 3/9,	new frequency.	JM



FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITIALS
11705	1210	GUAM	Trans World Radio	with EE anncts, mx 6/9 fair //9640.	JM
11710	0300	USSR	Radio Moscow	SS fair over Noumea. Listed Tblisi. Also on 12020 very good from listed Riga.	FE
11720+	1019	CHINA	Radio Peking	fair in EE till s/off 1025.	TMs
11740	0542	VATICAN	Vatican Radio	Mass in Latin, good but some RA QRM.	KJ
11750	2000	GREAT BRITAIN	BBC World Service	news, fair. Also hrd 2215.	KJ
11760	0352	CUBA	Radio Havana	EE pop music & anncts. Fair. Also at 0500.	KJ
11760	2307	PHILIPPINES	VOA with Breakfast Show	nx relay, fair-good.	KJ
11755	2033	FINLAND	Radio Finland	with weak in EE with news.	IW
11760	0615	SWAZILAND	TWR Manzini	with mx prgm under BBC.	AC
11780	0231	BRAZIL	Radio Nacional de Brasilia	with PP ident & int. sig as used in International Svce, followed by mx prgm 27/8. Only poor. Again hrd 28/8 with 'programa especial' to 0300. Hrd following tip-off from TD in Vancouver who noted extremely strong sigs 2330-0015 24/8 with relay of 980kHz. BC	BC
11780	0930	GUAM	KTWR Trans World Radio	in JJ to 1000, then EE till s/off 1055 4/9. First day of regular broadcasting, fair.	JM
11795	0600	WEST GERMANY	DW Cologne	s/on in GG to Australia & NZ, good.	KJ
11800	0600	TURKEY	Ankara	Turkish for Turks abroad, fair 6/9 ex 11880 //9515.	
11815	0445	POLAND	Warsaw	fair in Polish 4/9 //9525. JM. 0227 EE fair. DW+JM	
11819	0505	MOZAMBIQUE	Maputo	PP nx, talk, music, gong. Fair 4/9.	JM
11835	1026	SRI LANKA	SLEB	int. sig, time signal & annct, id with freqs & reception areas. EE, FF & GG. Mx, nx 1045. Fair 20/8.	JM
11840	2230	PORTUGAL	Lisbon	broadcasting to Brazil, vg. Pop mx prgm.	JW
11840	0402	EAST GERMANY	RBI Berlin	EE mx, anncts, fair. S/off to N. Am 0415. KJ	
11845	2100	SWEDEN	Stockholm	poor due RA 11840. Nx, Sweden Calling DXers. JW	
11845	0400	CANADA	Radio Canada	International nx, items of interest, good. KJ	
11845	0515	BELGIUM	Brussels	fair in French.	TP
11860	0510	GREECE	VOA Kavalla	with Breakfast Show, very good.	KJ
11860	1130	SOUTH KOREA	Radio Korea	good in EE to close 1200.	KJ
11875	0500	ISRAEL	Jerusalem	EE nx, fair. New freq mxd VOA. //11960, 12045.	JM
11880	0330	SPAIN	RTVE Madrid	good in EE to North America.	BJ
11900	0630	EQUADOR	HOJB	quito nx, rlg prgms, fair. South Africa earlier.	BJ
11905	0515	IRAQ	Baghdad	AA ident & music. Good, new freq 8/9.	JM
11905	0600	WEST GERMANY	DW Cologne	opens in EE to Aust/NZ, good.	KJ
11920	0519	JORDAN	Amman	with AA mx, talk, anncts. Poor, new freq 21/8. PO	JM
11930	0200	USSR	Radio Moscow	SS to Sth. Am from listed Ashkhabad, vg.	FE
11955+	0415	CYPRUS	BBC East Mediterranean	Relay, World Service to 0430.	TMs
11960	0500	ISRAEL	IBA	with EE news. Continued in FF 0515. Fair-good.	KJ
12045	0500	ISRAEL	IBA	Jerusalem good to NZ. QRM on lower side.	BA
12285	0500	UNIDENTIFIED	AA	here ex 12315. Possibly Syria or Kuwait?	FO
15100	0500	LIBYA	test transmission	in AA. Also on 11700.	AC
15120	0530	VATICAN	Vatican Radio	opening for Mass at 0530, poor.	KJ
15125	2030	PORTUGAL	good in EE with National Nx.	PP 2041. QRM 15130 RNZ. BC	
15150	2250	CHILE	Santiago	EE talk, nx by lady, fair. JM. 2248 Radio Nacional with idents as "Voice of Free Chile. EE cntry & Nx to 2305. Strong signals. Gives address as P.O. Box 2144V, Santiago, Chile. BC	BC
15175	2100	NORWAY	Radio Norway	Oslo s/on vg with EE id, then Norwegian.	BC
15190	1320	FRANCE	Paris	with chatty mx prgm. EE Tourist spot 1405, good.	TP
15220	1500	USSR	Radio Moscow	EE to SE Asia via listed Dushanbe, good.	FE
15240	2024	BELGIUM	Brussels	good in FF with ident.	BC
15320	0633	AUSTRALIA	RA Shepparton	with music & reports. Good to NZ.	BA
15325	0627	JAPAN	NHK European Service	in Swedish at 0630, fair.	BA
15335+	2258	COLOMBIA	Radio Nacional	Latin mx, ident 2300. Very good 20/8. DM	
15345	1215	GREECE	Athens	fair with EE news. Some QRM.	BH
15415	0550	ISRAEL	Jerusalem	RR talk, music & news. Fair, new freq 10/9.	JM
15425	0310	SRI LANKA	SLEB Colombo	EE requests. Blocked at 0330.	KJ
15450	2335	PHILIPPINES	FEBC Manila	EE news, fair. New frequency?	BC
17715	0400	AUSTRALIA	RA Shepparton	EE to Africa 4/9 ex 11935, //15205. JM	
17745	0810	AUSTRALIA	RA Carnarvon	EE to Asia ex 17895, poor 22/8.	JM

FREQ.	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITIALS
17795	0700	JAPAN	NHK Tokyo	General Svce in EE ex 15310. Fair //17880, 9505.	JM
17850	1000	USSR	Radio Moscow	EE to Asia from listed Alma Ata, very poor.	PE
17890	0445	BANGLADESH	Dacca	with EE nx and local music. Fair //15400.	BH
21455	0130	AUSTRALIA	RA Shepparton	new freq s/on. Off 0300. Some days exc, other days poor. BC 0220 s/off exc. JW. S/off 0300 poor.	KJ
21485	2050	USA	VOA Bethany	good with jazz. JW. 2220 fair. KJ. 2230 pops, gd.	BJ
21515	0200	PHILIPPINES	FEBE	fair, gospel prgm in EE. JW. 0000 2kw to A/NZ.	TMS
21590	0240	PAKISTAN	Radio Pakistan	EE Dictation nx, vg. JW. News, good.	KJ
21610	2230	USA	VOA Dixon	EE "Breakfast Show" strong. JB. 2240 gd. KJ. Good.	BJ

THANKS TO OUR CONTRIBUTORS THIS MONTH: IW Ian Wells SG Steven Greenyer  
 AC Arthur Cushen BH Bill Huddleston BJ Bill Jolly JB Jim Benzoni  
 JW John Wysocki JM John Mainland TS Ted Sutton PG Peter Grenfell  
 BC Bryan Clark IT Ito Tsukigawa BA Brent Allred PO Paul Ormandy  
 Trevor Phillips PE Paul Edwards TMS Tim McSweeney (Queensland)  
 MO Masami Onizawa (Japan) DW Dick Whittington (Victoria) Theo Donnelly  
 and special welcome to newcomers KJ Kevin Jensen with FRG7 in Motueka and  
 DM Don Mitchell (Victoria) who has an interesting line-up of SX190, FRG7,  
 Grundig Satellit 2100 and National DR22, plus a BC221 frequency meter.

## Footnotes

SWITZERLAND Marconi is to instal a new HF transmitter at Schwarzenburg, with delivery in late 1977. WWDXC

ADVENTIST WORLD RADIO IN ASIA, Box 15, Poona 411001, India uses the facilities of SLBC Sri Lanka for the following EE programmes: Voice of Prophecy 0330 Sunday on 9720 and 15425kHz, Radio Monitors International hosted by Adrian Peterson 1350 GMT Sunday and Voice of Prophecy Music Hour 1430 Sunday, both on 6075, 9720 and 15425kHz, quiet Hour at 1330 Friday on the same 3 frequencies, and Your Radio Doctor at 1330 Saturday, again on 6075, 9720, 15425kHz, plus 920 MW and 4940kHz 60 metre band. This schedule is effective 4/9/77.

Adrian Peterson

RADIO NEW ZEALAND's Shortwave Service schedule to 29/10 is - to the Pacific: 1800-2015 on 9770, 1800-0050 on 11960, 2030-0540 on 15130, 0100-0715 on 11705 and 0550-1030 on 6105kHz. To Australia 0730-1030 on 6105kHz. Proposed schedule 30/10 to 5/3/78 to Pacific: 1800-2215 on 11960, 2230-0250 on 17710, 1830-0715 on 15130, 0300-0530 on 11705 and 0545-1030 on 11780kHz. Proposed frequency to Australia 0730-1030 on 11780kHz. DX reports must be accompanied by an IRC (or equivalent in NZ stamps). Direct

DOWN UNDER DX SURVEY, newsletter of the specialist Down Under DX Circle is out again. Issue No.9 features include Middle East Miscellany, Intruder Watch (a look at broadcasters using the 80 and 40 metre 'ham' band ranges), an article on Clandestine Radio Broadcasts in Southern Africa, and more. Price is 3 IRCs or 50c in Australian stamps (6 IRCs outside A/NZ). DUDXC address is c/- Geoff Cosier, 7 Donald Road, Burwood, Victoria, Australia 3125.

RADIO ESPANA INDEPENDIENTE (see page 14 last month) continues with broadcasts of a non-controversial nature, at 1235-1255 and 2005-2025 GMT (not Sunday) on 15365 and 15185kHz respectively. Transmitter site is believed to be in Bulgaria. 18/8 BEC MS(c)

MORE 'POWER GAME'. In Norway two 500kw HF transmitters are being installed at Kvitsoy in Rogaland, along with a 1200kw MW transmitter which will replace the Stavanger outlet. 3 HF transmitters are also planned for Svejo, with both projects expected to be completed in 3 years. Kenya plans spending 10 million pounds on modernising radio and TV networks. HF, rather than MF transmissions, will be improved. In Bangladesh two 250kw HF transmitters are being installed at Kabirpur, near Dacca. BEC MS(c)

TRANS WORLD RADIO SWAZILAND's EE sked 9/77 to 12/77 is 0430-0615 GMT on 41m and 90m (Sept)/60m (Oct-Dec); 0630-0905 on 25 and 60m (Sept), 31 and 49m (Oct-Dec); 1630-1815 on 90m (Sept) and 60m (Oct-Dec); 1830-2035 (2105 on Sun, Mon) on 90m. Frequencies to choose from are 90m-3200, 3240, 3275; 60m-4760, 4790, 5055; 49m-5950, 6070; 41m-7215, 7280; 31m-9520, 9590 and 25m-11760, 11955. Colin Miller

Frequency changes by many international broadcasters took place this month, while signals are picking up during the hours of darkness. The following information was aired on Radio New Zealand at 1015 GMT on 4 September.

All times GMT

All frequencies KHz

Australia: Radio Australia is now using two 13 metre band frequencies; 21450 from 0130 to 0330 and 21570 from 0800-1000.

Bolivia: CP120 4775 has been heard closing at 0400. The station verifies with a postcard from Senor Carlos Avila Alberdi, Director, Radio Tropico, Trinidad, Beni, Bolivia.

Canada: Radio Canada International has replaced 9535 with 9605 for its service to North America. English is now heard 0200-0230 on 9605 and 11845. 0300-0330 on 5960, 9605, 9655, and 11845; 0400-0430 on 5960, 9655, and 11845.

Ecuador: HCJB Quito to the South Pacific operates on 6070 from 1200-1300, 6160 0800-1200; 9745 0700-1030; 11900 0630-1000.

French Guyana: Cayenne 4972 opens at 0930 after interval signal, time pips, and then announcement in French. Has some sideband interference from Radio Rumbos on 4970 and a teleprinter.

Cook Islands: Rarotonga now verifies from a new address P.O. Box 126, Avarua. Now operating on 5045.

Germany: Deutsche Welle has added 9590 for the German transmission to Australia and New Zealand 0600-0950 and it is presumed this is the Montserrat transmitter. The other frequencies carrying the transmission are 6085 6145 7285 9690 9735 11795 17845 21560.

Greece: Athens has been noted on 11730 with news in English at 0020 after Radio Nederland closes.

Guatemala: Radio Nacional 6180 heard with marimba music on Sundays at 0600 after the BBC.

Korea: North Korea Pyongyang has increased its output and has been noted on 11780 0800-0950 in French, 1000-1050 in Korean and 1100-1300 in Chinese.

Malta: The Voice of Hope has been noted on 9770 on Sundays with German 0700-0730, then announcement in English and then French to 0800, but at this time it is blocked by Bonaire. The IBRA Radio programme from Malta on 5990 is heard in English on Sunday 2030-2100 when blocked by the BBC in Italian. Requests reception reports to IBRA Radio, S10536, Stockholm, Sweden.

Nigeria: Lagos on 11770 has been heard opening at 0555 with a programme summary and news at 0600. Some jamming on the frequency.

Spain: Madrid in English daily except Sunday operates on 7155, 9505 and 11840 from 2030-2130 and repeated 2130-2230.

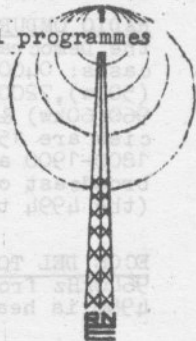
Swaziland: TWR heard on 11760 at 0615 with orchestral music and gospel programmes in English at 0630 under the BBC World Service.

# CB & SWL cards

Personal report forms - stationery - Spanish Xmas Cards

Inexpensive DX printing to order

ARK PRESS Box 3160 Wellington





# ..sign off..

LIBERIA The Voice of America is to install a further 4 high-power SW transmitters at Monrovia. Ginbey SCDX

AMERICAN FORCES ANTARCTIC NETWORK on 6012 with 1kw is currently sked 2000-1200, with taped AFRTS prgms 2000-0500 and local prgms from volunteer DJs, with earlier s/off on some occasions due to staff shortages. At the suggestion of NASWA member & ham Bill Hohnstein, they are sometimes using a rhombic antenna beamed to Nth America instead of the usual vertical. Last period of rhombic operation was 13 to 20 August. NASWA DX Hotline

NBC PAPUA NEW GUINEA lists the following District SW Stations which relay Fort Moresby during daylight hours. All are 10kw: Radio East New Britain, Rabaul 5985; Radio Milne Bay, Alotau 6040; Radio Western District, Daru on 6080 and Radio East Sepik, Wewak 6140. (The first two have been heard in the USA. Ed) Philip Brooks

WYFR Family Radio's new transmitter site in Florida is due on air shortly, according to Glenn Hauser over Radio Nederland. Their EE sked to Europe & Africa 4/9 - 5/11 lists 4 frequencies in use, where only 3 were used previously. 1230-1600 Sunday 15110, 17865. 1605-1700 daily 15110, 17865, 17845, 17875. 1700-1800 daily 15110, 17845 & 15440. 1800-1900 daily 15110, 15440, 17845, 17875. 1900-2000 daily 15110, 17845 & 17875. 2000-2100 daily 15440, 11705 & 17875. 2100-2300 daily on 9690 & 11705kHz. Address for reports is Family Radio, Oakland, California 94621. I. Hitchener

RADIO NORWAY's EE sked to 5/11 includes 0800-0830 Sundays to Europe on 5965, to Aust/NZ on 11850, Far East on 15175 and Indonesia/Far East 15135. Leigh Morris

RADIO OMDURMAN, Broadcasting Service of the Democratic Republic of Sudan broadcasts: 0400-2200 on 11835(120kw), 9505(50kw), 7200(120kw), 6150(20kw), 4994(20kw) 960(60kw) & 764(100kw). Standby frequencies are 15170 & 572(both 50kw). At 1800-1900 an Expatriates Service is broadcast on 11835. All prgms in AA. (the 4994 tx is heard on 5039.Ed)

Mano & Fujiki JSWC

ECOS DEL TORBES Venezuela has moved to 9640kHz from 6190, according to anncts. 4980 is heard till s/off at 0400 GMT.

Pendola SCDX 16/8

## NEW ZEALAND RADIO DX LEAGUE

### ADMINISTRATIVE OFFICE

P.O.Box 1313, Invercargill

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

### EDITORIAL OFFICE

P.O.Box 2956, Wellington.

Only queries relating to content & distribution of the Times should be directed to Wellington.

Closing date for contributions is usually 5pm on first Monday of the Month. Advertising: 50 cents for up to 30 words. Other rates on request.

### ANNUAL SUBSCRIPTION: NZ\$5.00

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

FEBA SEYCHELLES has used 50kw since resuming transmission 27/6, instead of 80kw or 100kw. They are interested to know whether the power reduction is noticeable. They now issue an acknowledgement card to DXers outside their service areas. The card is similar to the QSL card but does not include date, time or frequency. via SCDX

BBC WORLD RADIO CLUB, with information for SW enthusiasts in a language for the non-technically minded, is no longer aired at 0815 Sundays. Sked is now 0815 Wednesday to Aust/NZ on 11955, 9640, 7150 (repeats at 1330 and 2315 Wednesdays), and 2100 Friday (Saturday morning NZT) at 2100 on 11750, 9410, 7120 & 5975. Leigh Morris

RADIO CLARIN Dominican Republic has, since 25/7, broadcast 30min EE prgm at 2130 and 2330 Monday-Saturday on 11700 and 4850. (Try 11700 at 2130 Ed)

SCDX 2/8

## market square

SELL Ash Nallawalla, 36 Clyde St, Dunedin, telephone 69543 offers the following items for sale:

- i) Fully wired 6 digit LED clock kit, \$25. No circuit diagram.
- ii) Operational 'Practical Wireless' AF Processing Unit, needs plug and socket. \$10. No circuit dgm.
- iii) Perspex, almost ready as cabinet for item (i) or similar. \$10.

LEAGUE AGM OAMARU - 15 OCTOBER, 1130.