



New Zealand DX Times

Monthly journal of the

New Zealand Radio DX League (est. 1948)

October 2000 - Volume 52 Number 12

<http://radiodx.com>



talkback@radiodx.com with David Ricquish, Wellington

This month we celebrate 52 continuous years of publishing the magazine. Happy birthday everyone! That's 624 individual monthly magazines, a great record of our hobby, of new independent states, of SW, MW, then FM, now Internet radio, and the achievements of our hundreds of members. Well done!

We visit Montevideo, Uruguay for our Station of the Month. Soft rock music in EE and SS, plus other languages comes from Oceano FM 93.9, as well as some great phone-in discussions, and long ad breaks including 'Big Mac, el sabor de Uruguay!'. They're entering their spring as well, so visit our Latin neighbor at www.oceanofm.com and enjoy their music.

Also visit 2YB Access Radio in Wellington, 783 AM every second Saturday at 12:20pm for Paul Ormandy's South Pacific DX Report and encourage your friends to listen as well.

Croatian Radio went silent on September 30. According to Marica Risek in Zagreb, the Croatian Government, via the Director of the Croatian Heritage Foundation, just decided to stop the funding. Protest letters are encouraged to: Prime Minister Ivica Racan (kabinet.premijera@vlada.hr) and Director of the CHF, Boris Maruna (hmi-info@matif.hr) says Marica. Great timing. Within a week, Serbia undergoes the last major European anti-communist revolution, and the Serbian Broadcasting HQ in Belgrade is torched. Keep an ear out for Balkan signals in the coming weeks. Pity Croatia chooses this time to go dark.

Swedish DXer Jan Edh reports email QSLs from AFRTS SW in various locations. Log these fast, AFRTS says 'the signals will be in existence for a limited time until a new technology, currently being tested, allows for reception via satellite'. For reports, try: AFRTS Broadcast Center, 1363 Z Street, Building 2730, March Field CA 92518-2073. Fax: (909) 413 2604. Website to check is: www.afrts.osd.mil (via Lawrence A Sichter, Chief, Affiliate Relations).

Kelvin King, Auckland writes that he's been a member 'since I was a schoolboy' but 'for the last few years, I've done virtually no DXing, but always support the League by sending my annual cheque because I believe strongly in it's aims and intentions. Congratulations on doing so much to modernise the DXT and looking for new opportunities.'

Evan Murray, Auckland says he 'greatly enjoys the column, full of goodies for all, and especially big chunks of meaty information' and comments on Anker Petersen's speech last month: 'how close his thoughts are to my own. Hopefully, we'll have discussion on this at the AGM. An exciting step such as DWSCI has adopted would be more than welcome.

The Utilities column has a number of contributors producing fine results. We lack the reference material SW and MW members can use, relying on judicious tuning and luck!

Contribution deadline for next issue is Wednesday October 4th - PO Box 3011, Auckland

Anyone interested in radio scanning can obtain a list of VHF/UHF frequencies by contacting me at 14 Kia Ora Road, Birkdale, Auckland or varisian@ihug.co.nz'

Phil van der Paverd, Auckland writes: 'I've been very busy lately with all the August subs coming in, planning camping in my caravan, and managed to spend a weekend at Waipu Cove and had some good results again using my groundwave antenna.'

Has anyone tried the K9AY antenna mentioned by Barry Williams last month? From all reports, this could revolutionise MW DXing!

Time for a roundup of news from Pacific Islands Report which includes items on two companies bidding for TV services in Fiji. Pacific Consortium plans 20 Pay-TV channels, with 4 given free to the Fijian Government. Hawaiian controlled Fiji Vision is the other company. Existing FijiTV has national FTA FijiOne plus 3 Pay-TV and loses exclusivity on December 31. Radio Fiji is also seeking TV licences.

Tahitian network NRJ went on line in mid-September. You'll find them at www.nrj.pf with live audio, music, videos and local gig guide. In Papeete they use 103 FM.

Radio Hapi Isles (unfortunate name in the civil war wracked Solomons) now broadcasts fully censored news bulletins by the Government Communications Division in Honiara.

Radio NZ International continues broadcasts to NZ military forces in Bougainville and East Timor on 15175 from 0859-1205 UTC.

Moving along now, Chris Mackerell, Wellington writes: 'if the Canucks are staying away in droves from the CBC, it's their loss! Over the past few months, I've become a regular listener of CBC Radio One's Sunday afternoon programs: a great show of Quebec jazz/folk music, followed by the world's best 'Blues Hour'. Listen to CBC Vancouver: <http://vancouver.cbc.ca/ram/r1van.ram> The music is great stuff you'll never hear anywhere else and all commercial free. The world will be a worse place without CBC Radio. I've always enjoyed listening to their programs, both on SW and traveling in Canada. The world needs more stations like this, not less.'

Paul Aronsen, Invercargill sends Volume 64 No.1 of the 'Southland DX Digest' which includes news about the Southland Branch AGM, the future of the Tiwai listening post, Patrick Martin's fantastic DU reception using the K9AY loop, and 2000 Domestic Broadcasting Survey from Denmark.

Adrian Peterson, Indiannapolis, IN suggests that members check local stamp, coin and postcard dealers for hidden DX treasures! When visiting other cities, he checks old postcard collections, and has found several rare QSL cards! Adrian can be heard with 'Wavescan' on AWR transmissions regularly, and we're honored he's agreed to join the NZRDXL Heritage Committee. Other Heritage Committee members include Paul Ormandy and Peter Grenfell (both of Oamaru) and several other confirmations are expected shortly.

Samoa's Radio Polynesia has been creating it's own history this week says Matt Francis, Canberra ACT. The independent station celebrated 11 years on air, by launching K-Lite FM on 101.1 FM with EZL music, and Talofa FM on 96.1 FM withh Samoan music and language programs. Magik 98.1 continues with Top40 hits. (For photos of the studios and other Samoan DX info, check out 'Samoan Radio Journey' at www.radiodx.com/spdpx and the Pacific Radio Heritage Collection link).

To conclude this month, a review of Brass Button Broadcasters: A Lighthearted Look at Fifty Years of Military Broadcasting by Trent Christman, published by Turner Publishing Co, 1992. Dave Turner, President kindly supplied a copy of this very large and 208pp well illustrated book for our research on the Mosquito & Jungle Networks.

Trent worked at several Jungle Network locations, but this book covers all AFRS radio from Asia to Central America to India to Europe to Africa. Great human stories, some tragic (when a fighter plane destroyed the station at a USAFB in Thailand), some funny (drunken DJs at a station in northern Burma) and most just plain fascinating. AFN Europe, FEN Japan, Operations Desert Shield and Storm, AFVN Vietnam, and so much more. Chock full of photos of stations, studios, personnel, and great moments.

For any DXer who's listening to AFRS via SW right now, or who's chased the tinpot signals from KMTM Midway, or heard WVUS Noumea in WWII, visited Europe and heard AFN, or Japan and heard FEN, and many more, this is a great gift book! Encourage your library to buy a copy, or do the dishes for a month and drop lots of hints! Or just treat yourself! ISBN: 1563110865; available from www.turneronline.com for US\$34.97 including shipping. PO Box 3101, Paducah, KY 42002-3101. You'll also find a review at www.amazon.com

Expect plenty of AGM news next month, and thanks to everyone who could join us this month. Have your say next time around, enjoy your DX, and keep an eye on www.radiodx.com as you may be surprised! Ciao.

shortwave.report@radiodx.com with Matt Francis, Canberra

Sources: DXLD - DX Listening Digest; Cumbre - Cumbre DX electronic mail bulletin; BCDX - Worldwide DX Club; CW - Communications World program, VOA.

WHAT'S "B-00"?: You'll see lots of references to B-00 in this and the next few issues this column. B-00 stands for B-2000, signifying the second major international broadcasting schedule period for the year. A-00 went runs from March 26 until October 29 - the northern summer period. B-00 covers the northern winter - hence, lots of references also by broadcasters to their 'winter' schedule. And with lots of new schedules for B-00, be sure to share any you receive with fellow members through these pages. Some broadcasters make schedule adjustments at other times of the year, dictated by need (interference or poor propagation) or to adjust for local summer/winter time shifts.

NEW ADDRESS: for postal contributions — 10 Star Close, Amaroo, ACT 2914. Email francis@dynamite.com.au. Phone 0417 226 484. **ARMENIA:** National Radio of Armenia (formerly Voice of Armenia) observed on Sep 17: 0815-0900 in Armenian; 0900-0920 in French; 0920-0940 in German and 0940-1000 in English all on SUN ONLY on 15270 (55544), NOT SAT on 15240 (Ivo and Anguel, Observer, Bulgaria, Sept 20 via DXLD)

AUSTRALIA: Registered frequency of Christian Voice for B-00 via Darwin tx: 17775 0900-2000 100 kW/303 degrees in English to zone 41 (South Asia). (Ivo and Anguel, Observer, Bulgaria, via DXLD) There were to be tests from Darwin during September - at the time of writing these do not seem to have started. (Francis) **CHINA:** CRI has a new mailing address: PO Box 4216, CRI-2 Beijing, China. (CRI)

COSTA RICA: After a 2+month absence, RFPi's 30 kW transmitter is back on the air, on 6969 instead of 6970, noted at 0350 UT Sept 20. Modulation seemed to need a bit more work. As a result, 15049 is no longer 24h, which is too bad, nominally scheduled 1600-0600, but this

day not on until about 1900; the 21815-USB was audible after 1200. As a result the weekday repeats of WOR and COM in the 0600-1200 period are no longer there on SW (Glenn Hauser, OK, WORLD OF RADIO 1052, DXLD)

CROATIA: Croatian Radio wound up its relays via Deutsche Telekom at Julich at the end of September (ie 9490 0500-0700, 13820 0700-0900). However, they continue via Deanovec, Croatia as follows-6165 0400-2100, 7185 0800-1500, 7365 0400-1730, 9830 0400-1730, and 13830 0400-2100. (Bueschel and Ludwig BC-DX Oct 1) Noted on all of the above (Petersen Oct 3, Cumbre)

ECUADOR: HCJB, B-00 Cz 0500-0530 9765, 1930-2000 17795, 1930-2000 15550; En 0000-0400 9745, 0000-1530 21455, 0000-0700 11840, 0400-0700 9745, 0700-0900 9780, 0700-1100 11755, 1100-1630 12005, 1100-1630 15115, 1900-2200 17660; Fr 0030-0100 9635, 0630-0700 9765, 1900-1930 17795, 1900-1930 21470, 2000-2030 17795, 2000-2030 15550; Ge 0600-0630 9765, 0930-1000 11980, 2100-2130 15550, 2100-2130 11965, 2300-0000 11980; Huarani 1030-1100 6050; Ja 0430-0500 11940, 1130-1200 9730, 2030-2100 17795, 2030-2100 15550, 2200-2300 11680, 2200-2300 21455; Kikongo 0500-0515 15140; Po 0800-0930 9745, 1500-1800 15295, 2300-0230 11920; Quichua 0830-1000 9765, 0830-1400 6080, 0830-1400 3220, 2100-0300 6080, 2100-0300 3220, 2130-0000 0745; Ru 0330-0430 9775; Slovak 0530-0600 9765, 1930-2000 17795, 1930-2000 15550; Sp 0100-0500 15140, 0700-0730 9765, 0900-1100 11960, 1100-0500 6050, 1100-1300 11960, 1100-1500 15140, 2100-2300 15140, 2130-2200 15550, 2130-2200 11965, 2300-0000 21455, 2300-0100 15140. HCJB relays via Rampisham, UK: 1700-1715 11760 Bashkir/Uzbek/Tajik/Tatar (alt days); 1715-1730 11760 Georgian; 1730-1815 11760 Ru; 1815-1830 11760 Uk. (HCJB) Japanese service is to close at end of December, according to reports from station (Francis)

FRENCH GUIANA: The Montsinery relay station went off-air on Sep 10 after a transformer explosion/fire. This affected relays for stations such as SRI (such as 9885 0830-1030 to Australia) and Radio Japan, in addition to RFI. Most relays were relocated to transmitters at Issoudun in France. NHK also picked up time from Merlin at Ascension. It's hoped Montsinery will be operating again by mid-October.

ICELAND: The Rikisutvarpid relays in USB via Reykjavik Radio (10 kW) have new schedules. Eur: 1215-1300 on 15775, 1755-1825 on 13865. North Am: 1410-1440 on 13860, 1835-1905 on 13860, 2300-2330 on 11402. The txs to Eur are live relays of the news on RUV Program 1, and the evening broadcast is now one hour earlier compared with previous years, because the main evening nx now starts at 1800 instead of 1900. (Reykjavik Radio via Bernd Trutenau, 18 Sep, BCDX)

ISRAEL: KOL Israel programs will be on air one hour later from Oct 6 when winter time starts in Israel. English moves to 0500 (ex 0400) on 9435, 15640, 17535; 1130 (ex 1030) on 15640,

17545; 1700 17535; 2000 11605, 15650, 17535, 15640. (IBA)

ITALY: IRRS-Shortwave B00 Schedule 3985 0530-0700 Daily 10kw English, Italian; 7120 0700-0800 Mon-Fri 10 kW non directional English, Italian, German; 7120 0800-1600 Sat & Sun 10 kW English, Italian, German; 3985 1800-2315 Daily 10 kW non directional English, Italian, German (Norton, NEXUS-IBA Support, via Lamb) **LIBYA:** V. of Africa, 17725, in at good level but always the usual muddy audio; English news times continue to vary from day to day: Sept 9 1727-1732, 2038-2045; Sept 10 1740-1745, 2041-2048 (Brian Alexander, PA, DXLD)

MOLDOVA: Radio Moldova International has reportedly stopped broadcasts on SW due to budget restraints - now being delivered via the web.

NETHERLANDS: After a 20-year run, Radio Netherlands' specialist media and communications program, 'Media Network' will be broadcast on shortwave for the last time on Thursday Oct 26. From that date, it will be a web-only production, managed by Andy Sennitt. The decision to wind up the radio show follows the recent departure from RN of former co-host Dianna Janssen, and a re-evaluation by the station of the resources required to maintain the program.

NEW ZEALAND: RNZI schedule from Oct 1 1650-1850 15120 Mon-Fri, 1850-0705 17675 Mon-Fri, 1855-0705 17675 Sat-Sun, 0705-0900 15175 Daily, 0900-1205 15175 Daily, 1205-1650 6095 Occasional Use (RNZI)

NORWAY: Radio Denmark via Norwegian transmitters, from Oct 29; 0930-0955 15705, 18950, 21725; 1030-1055 13800, 21725, 1130-1155 13800, 21760; 1230-1255 13800, 15735, 18910, 18950; 1330-1355 9590, 13800, 18910, 18950; 1430-1455 15705, 18950; 1530-1555 13800, 15705, 15735; 1630-1655 9590, 13800, 18950; 1730-1755 7485, 9985, 15705, 18950; 1830-1855 5960, 9985, 13800, 18950; 1930-1955 7485, 13800, 15705; 2030-2055 7465, 7485; 2130-2155 7465, 7485; 2230-2255 9415, 9480; 2330-2355 7465, 9480, 9945; 0030-0055 9935, 9945; 0130-0155 7465, 7495, 9945; 0230-0255 7465, 7490, 9590; 0330-0355 7465, 7485, 9945; 0430-0455 7465, 7485, 9945; 0530-0555 5965, 7485; 0630-0655 5965, 7180, 9590, 13800; 0730-0755 7180, 9590; 0830-0855 15705, 18950. (Station) And you'll hear Radio Norway in the preceding 30 minutes on same frequencies (Francis)

PAPUA NEW GUINEA: Radio Bougainville has been using 5985 in the evening period, from around 0700 to 1200*, replacing usual 3325, from a transmitter at Rabaul in neighbouring East New Britain province. Radio East New Britain, 3385, continues as usual.

PHILIPPINES: Hmong language broadcasts from FEBC are being jammed, according to a report from the Catholic broadcaster EWTN. The Hmong are a minority in Vietnam's north-east provinces. Vietnam is worried about the growth of what it calls a counterrevolutionary Christian movement among the Hmong people. The jamming began July 27th, and it affects broadcasts in both the White and Blue Hmong dialects. (CW, VOA). **SOMALIA:** 6985 Radio Galkayo is at 300 watts, but is heard in Sydney from 1600-1700. Now that I have left Somalia, the English program will only be heard from 1700-1715

when English speakers such as Doctors Without Borders show up to do the program. I am sending a capacitor to replace a faulty one in their driver amplifier. Once the station installs it, they will be back to 800 watts. (Voron Sep 19-21, Cumbre)

***7530 Radio Hargeisa *1500 noted at this time in Sydney. (Voron Sep 19-21, Cumbre)

SOUTH AFRICA: United Nations Radio, via Meyerton: 1700-1715 French 6120, 21490; 1715-1730 Portuguese 6125, 21490; 1730-1745 English 6125. All Mon-Fri (Sentech) See 'UN' below for more. ***African Beacon, via Meyerton: 1530-1800 6145, 1800-2200 3230, 1800-1900 17665, 1900-2200 11640 (Sentech)

TUNISIA: Updated schedule of RTTunis in Ar as of Sep 26:

7110 0400-0700 Sfax 500 kW / 265 deg NoAf

7110 1900-2300 Sfax 500 kW / 265 deg NoAf

-DELETED, no signal on Sep 30.

7225 1700-2300 Sfax 500 kW / 340 deg Eu

7275 0400-0700 Sfax 500 kW / 340 deg Eu

9720 0200-0500 Sfax 500 kW / 100 deg ME-back on air

9720 1700-2100 Sfax 500 kW / 100 deg Eu-back on air

11655 1400-1900 Sfax 500 kW / 265 deg NoAf

11655 1900-2300 Sfax 500 kW / 265 deg NoAf

-NEW FREQ (Sep 30) (x7110).

11730 1400-1700 Sfax 500 kW / 340 deg Eu

12005 0200-0500 Sfax 500 kW / 100 deg ME

12005 1700-2100 Sfax 500 kW / 100 deg ME

15450 1200-1700 Sfax 500 kW / 100 deg ME-back on air

17735 1200-1700 Sfax 500 kW / 100 deg ME

(Bulg Radio "Observer" Ivo Ivanov & Anguel Datzinov, BCDX Oct 1) **UNITED KINGDOM:** Stafford Broadcasting Society's Imagination has moved to satellite only from end of September. Previously, operated weekly on 6010 via Skelton.

USA: Proposed frequency usage for WSHB, Cypress Creek, during B-00. 6095 1000-1300, 7510 2200-0000, 7535 0000-1000, 9430 0000-0300 & 1300-1400, 9455 0900-1100 & 1300-1400, 9840 0400-0600, 9845 0800-0900, 11550 2000-2200, 11660 1100-1300, 12020 0400-0600, 13770 2000-0000, 15195 0500-0600, 15285 2200-0200, 15665 1800-2200, 18910 1600-2000 (FCC)

*** The Voice of America Spanish Service, which has been reducing its shortwave output over the past several years, has added a new SW transmission, Mondays only. "Enfoque Andino" is intended specifically for the Andean region of South America, where a war on illegal drugs continues, and where democracy is under strain. 2200-2215 on 15170 and 17565 via Greenville, North Carolina, and 21685 via Delano, California. It will also be on satellite for rebroadcast by affiliate stations in South America, and available on demand in RealAudio format. (CW, VOA)

VATICAN CITY: The Vatican is joining the radio relay site business. Effective Oct 29, the 100 kW at Santa Maria di Galeria will beam SRI at 326 degrees to the UK on 6165 from 1830 to 2030. This arrangement will remain in effect for the winter period. (Bob Zanotti SRI, Sep 3, DXLD) I have also read about the Vatican's relay of Voice of Russia for B00 0200-0300 9765.

(Grishin Sep 10, DXLD)

SOUTH PACIFIC DX REPORT: Paul Ormandy is offering a limited edition QSL for his 'South Pacific DX Report' which can be heard on HCJB and other stations. A good source of news for DXers in the Pacific region. Paul advises: The first 100 QSLs are numbered... and depending on the response, I may make it a permanent feature. Reports go to my home address - 33 Greta Street, Oamaru 8901, New Zealand and must be accompanied by US\$1-00 or 1 IRC. Listeners in NZ can send 3 x40c stamps. The program can be heard 4th Saturday of the month on HCJB's "DX Partyline", AWR "Wavescan" on the 3rd Sunday each month, fortnightly on Radio New Zealand International's Mailbag program, plus on ZLXA Levin.

shortwave.mailbag@radiodx.com *Laurie Boyer, Invercargill*

Well it's October already and down here we have had good weather but today it's hailing and my aerial is on the ground with the strong winds we've had. Just a few notes in so here goes.

First up is Jack Searle Haumoana with veries in from Kol Israel 11585, 15640, 17535, Radio Canada International 17870 with a special card, Radio Sweden 15255, V.O.I.R.I. 11740 with magazines and a QSL card not filled out.

Robert A Park Lower Hutt has them in from NHK Gabon 15355 [new country] Radio Netherlands Madagascar 11655 [new country] KSDA 11795, 17870 Radio Netherlands Flevo 13700 TWR Swaziland 11640 [new country] Voice of Russia Samara 9821 WHRA 17650 Radio Ukraine 12045 WSHB 13650, 11930, 11930, Sri Lanka B. C. 15425, Radio Bulgaria 11700, HCJB 15160, 11875, 12020, Canada Radio International French Guiana 13685, Radio Vietnam 9730, WWCW 15685, 5070, BBC Thailand 15280, 21660, 11980 VOA Morocco 9760, 15280 Tinian 11930, 11995, 11970, 12050, Ascension Island 17885, Kavala 6095, Botswana, 13670 Biblis 11780, Radio Free Asia 15695, REE 15585, 9710, RDP 13660, 17680, 15295, Voice of Hope Palau 15725, Radio Romania 15105, 17740, Radio Free Europe Spain 9520, 9560 Wooferton 9750, Deutsche Welle Sines 9785, Wertachtal 6075, 9730, 11655 Naun 11945 Kigali 11785, 9875, Petropavlovsk 21790, Antigua 9690, Irkutsk Trincomalee 17875 Bonaire, Radio New Zealand 11725, KNLS 11765, VOA Philippines 15195, 15425, 17765, Kavala 11985, Udorn, 21560, Iranawila 17855, Radio Canada Wertachtal 17870, 17845, HCJB 11980, Voz Christiana 21550, Radio Sonder Grense 9650, NHK UK 5975, French Guiana 9530, Yamata 9750 Radio Denmark Kvitsvoy 9985 11610, 15735, 18950, 21755, Sveio 18910, Voice of Greece Kavala 12110, 15650, Alvida 17520, Delano 9770, 9775, Voice of Vietnam Sackville 9795 China National Radio 17580, 15550, 17565, 17605, 17550, Voice of Russia Vladivostok 17660, Petro-Kamch 17690, Samara 13690, Radio Tirana 9540. Well done Robert

Barry Williams Auckland Voice of Russia 15460, TWR/Sentec 7120, WWBS 11900, Vanuatu 4960, Ukraine 9640, 13590, Radio Slovakia 5920, Czech Radio 15470, BBC Sentec 7120, VOA Botswana 13670, Radio Sweden 15255, Deutsche Welle Kigali 11785.

Lindsay Robinson Invercargill Has one in WTJC 9370 and sixteen out.

Ian Cattermole Blenheim has veries in from the following Radio Yugoslavia 11870, IBB Test Iranawila 15520 Swiss Radio International REE 15585 [EM]VOR via Vatican 11825, Radio

New Zealand 15175, BBC Meyerton 11765 Radio Sonder Grense 7185, Radio Portugal 15180, 13625, 21540, Voice of Greece 9770, RFPI 6970, Radio Ecclesia 15175, 15195 [EM], Radio Maryja.

Best of Month under 9MHz Radio Sonder Grense South Africa 7185. Ian Cattermole

Best of Month over 9MHz TWR Swaziland 11640. Robert A Park



bandwatch.under9@radiodx.com with Ken Baird

Please note that all frequencies should be in Kilohertz and, time in UTC (= GMT = UT), # indicates reception report sent. For reasons of accuracy some positive ID from the station heard is desirable, otherwise the ID of the station heard should be shown as tentative. Similarly for languages - either IDed, Presumed or Unid. The country name should also be clearly stated, please don't use abbreviations. Also, would you please add the date of logging to your information.

KHz UTC Country, Station, Programme, & Reception Details

- 2850 1005 NTH KOREA, R Pyongyang with male choir — PVP/JW 16/9
- 2899.1 1220 INDONESIA, RPDT2 Ngada Bajawa, Indonesian nx sports // 2960 - LM 29/9
- 2960 1200 INDONESIA, RPDT2 Mangarrai Ruteng with news comment and sports in Indonesian, fair — LM 29/9
- 3220 0835 PNG, R Morobe poor in Tok Pisin, ID 0900 — BML 7/9
- 3235 0806 PNG, R West New Britain good in Tok Pisin, ID 0914 then news in EE - BML 13/9
- 0954 PNG, R West New Britain fair in Tok Pisin, ID 1000 - KVB 16/9
- 3245 1000 PNG, R Gulf with news in EE — PVP/JW 16/9
- 1001 PNG, R Gulf fair EE/Tok Pisin, NBC National news & weather, ID 101- - KVB 16/9
- 3264.9 1030 INDONESIA, RRI Bengkulu, Indonesian. Also 3325 Palangkaraya, 3344.8 Ternate, 3395 Banda Lampung, 3905 Merauke, 3960 Palu, 3976 Pontianak, 4000.2 Kendari, 4003 Padang, 4606 Serui, 4789 Fak Fak, 4925 Jambi, & 6157.3 Biak — LM 29/9
- 3275 0838 PNG, R Southern Highlands good in Tok Pisin, ID 0916, EE news - BML 18/9
- 1145 PNG, R Southern Highlands fair in Tok Pisin, pop mx, ID/off at 1204 - KVB 13/9
- 3300 1014 GUATEMALA, R Cultural fair SS w/ mx and reference to Guatemala - CC 10/8
- 3305 0822 PNG, R Western good with EE prgm at 0830 with ID — BML 18/9
- 1012 PNG, R Western fair in Tok Pisin with local music, ID 1015 — KVB 16/9
- 1030 PNG, R Western very good in EE with announcements and full ID — DN 17/9
- 3335 0834 PNG, R East Sepik fair in Tok Pisin, ID 0844 — BML 18/9
- 1731 PNG, R East Sepik fair in Tok Pisin with local music and Sunday Church, slight co-channel QRM, ID 1758 — KVB 16/9
- 3355 0920 PNG, R Simbu good in Tok Pisin, EE School on the Air with IDs 0928 - BML 19/9
- 1046 PNG, R Simbu fair in Tok Pisin moderate signal with very poor modulation, pop music, ID 1051 - KVB 17/9
- 3365 1034 PNG, R Milne Bay fair EE w/ American country mx & news, ID 1100 — KVB 11/9
- 3375 0954 BRAZIL, R Educadora, ID solving previous unid Brazilian on this freq - DN 1/9
- 3385 1000 PNG, R East New Britain fair in EE/Tok Pisin with IDs 1021, 1024 — RP 18/9
- 3905 0740 PNG, R New Ireland poor with IDs 0756, 0820, co-channel increases after 0800 - BML 19/9
- 0951 PNG, R New Ireland poor in Tok Pisin, ID 1000 with EE prgm and mx - KAB 2/9

- 3925 1002 JAPAN, R Tampa good in Japanese with orchestral music and announcements, ID 1014 — KAB 2/9
- 1004 JAPAN, R Tampa fair in Japanese with comment and music, slight CW QRM, ID 1030 — KVB 3/9
- 3976 1037 INDONESIA, RRI Pontianak fair in Indonesian Koran at 1045 then music and news, several references to Pontianak and Kalimantan Barat — KVB 12/9
- 1047 INDONESIA, RRI Pontianak strong in Indonesian — DN 17/9
- 1310 INDONESIA, RRI Pontianak, Kalimantan fair in Indonesian with spoken prgm, choir music 1314 then ID and more spoken prgm — KAB 6/9
- 3987.2 1058 UNID, female singing, time pips then into news not // with Indonesians but possibly RRI Manokwari but much weaker than the other Indonesians — DN 17/9
- 3995 0457 GERMANY, DW fair in German with reference to Hamburg, noisy — CC 1/9
- 4606.4 1043 INDONESIA, RRI Serui with strong signal in Indonesian — DN 17/9
- 4681.51026 BOLIVIA, R Paititi (Tent) with s/on and lovely guitar music, probable ID 1029, next night s/on at 1035 and poor signal — DN 4/9
- 4760 2100 MONROVIA, ELWA brief ID in EE then relig prgm, fair — LM 1/10
- 4789.11050 INDONESIA, RRI Fak Fak strong in Indonesian — DN 17/9
- 4790 1220 INDONESIA, RRI Fak Fak fair Indonesian w/ discussion, mx, ID 1229 - KVB 13/9
- 4800 1322 INDIA, AIR Hyderabad fair in Hindi after Indian music, ID 1329 — KAB 6/9
- 4860 1914 INDIA, AIR Delhi good with music prgm in Hindi, ID 1919 — KAB 28/8
- 4875 0955 BRAZIL, R Difusora Roraima Bon Vista fair in Portuguese comment, sounded like relig prgm, ID 0959 — KAB 1/9
- 4876.9 1111 BOLIVIA?? Unid possible R Cenario or Centenario with Onward Christian Soldiers theme at 1100 with comment in Spanish about the petrol price, signal not bad at times but stormy atmospheric and thunder causing problems — DN 8/9
- 4885 1815 KENYA, Kenya Broadcasting in Swahili with music — LM 29/9
- 4890 1000 PNG, Port Moresby good in EE with news after ID — KAB 1/9
- 4914.40940 PERU, R Cora good with Andean music in Spanish, several IDs — KAB 2/9
- 4915 2115 GHANA, GBC with relig prgm in EE, ID 2130, lower power than usual - LM 1/10
- 4919 0637 ECUADOR, R Quito fair in Spanish with Latin music, ID 0639 — KAB 2/9
- 4920 0458 ECUADOR, R Quito fair in Spanish with ID and comment, noisy — Cc 28/9
- 4960 0539 SAO TOME, VOA fair FF w/ comment //6120, 7370, 9480, 9505 better - CC 9/8
- 1005 VANUATU, R Vanuatu good in Bislama with a list of names — KAB 1/9
- 4975 0936 BRAZIL, R Mundial Sao Paulo poor in Portuguese with ID at 0948 — KAB 2/9
- 4980 0900 VENEZUELA, R Ecos Del Torbes v good in Spanish, ID 0900, Music — RP 17/9
- 5003 1910 EQUATORIAL GUINEA, R National with greetings and dedications to listeners and music — LM 29/9
- 5025 1040 PERU, R Quillabamba fair in Spanish with Andean mx, ID 1042 - KVB 17/9
- 5070 0453 USA, WWCR good in EE with talk about sunspot count — CC 25/9
- 0649 USA, WWCR fair in EE with relig prgm — KAB 2/9
- 5300 1112 PERU, R Superior (tent) in Spanish with guitar music, huaynos, trumpets and firm Peru, fading by 1132 — DN 17/9
- 1120 PERU, Unid but suspect R Superior, scratchy audio and poor in Spanish, typical lively music, better on LSB to avoid het — DN 5/9
- 5460.7 1104 PERU, R Bolivar penny whistle/harp fanfares and Bolivaar ID, weak and needs more work — DN 5/9

5825 0505 USA, WEWN good in EE with Catholic prgm — CC 1/9
 0517 USA, WWCR fair in EE with talk about sunspot count — CC 26/9
 5905 1900 UKRAINE, R Ukraine Keiv good in unid language after IS, ID at s/on - KAB 28/8
 5920 1830 SLOVAKIA, R Slovakia Intl fair in EE with ID and talk about Constitution // 6055, 7345 the same — CC 1/9
 5935 0640 USA, University N/W with relig prgm in EE, fair — KAB 28/8
 5945 1400 RUSSIA, DW s/on with IS, ID then news in Russian, fair — KAB 7/9
 5950 0650 USA, R Taipei Intl fair in Spanish, into EE at 0700 after ID — KAB 28/8
 5975 2035 SINGAPORE, BBC WS fair in EE with comment on French petrol crisis - KAB 9/9
 5980 0820 USA, R Marti v good in Spanish with numerous IDs — RP 2/9
 5985 0650 USA, WYFR fair in EE with typical relig prgm, ID 0659 — KAB 28/8
 0700 PNG, R Bougainville improves to very good by 0800 with IDs — BML 14/9
 1845 PNG, R Bougainville with music then s/on at 1900 — BML 13/9
 5995 1407 AUSTRALIA, R Australia v good in EE with jazz prgm — KAB 7/9
 6025 2100 NIGERIA, R Nigeria with time pips and EE ID with news — LM 30/9
 6035 2040 SINGAPORE, R Japan/NHK fair in JJ to Australia and NZ, ID 2044 - KAB 9/9
 6050 2047 UK, BBC WS via Rampisham fair in EE with news comment — KAB 9/9
 2100 NIGERIA, V of Nigeria with EE ID, nx, 2130 IS, ID/off w/ Natl Anthem LM 29/9
 6055 1415 JAPAN, R Tampa fair in Japanese with YL/OM interview — KAB 7/9
 6065 1740 SWEDEN, R Sweden fair in EE with news about Sweden, bad QRM — CC 21/9
 1759 SWEDEN, R Sweden fair in EE with IS and ID, very noisy — CC 15/8
 6110 0518 CANADA, R Japan good in EE with 44 Minutes prgm — CC 27/9
 6145 0529 GERMANY, R Canada Intl good in EE and French with ID then into French // 7295 poor — CC 3/9
 6150 1302 SINGAPORE, R Singapore Intl good in EE with ID and news, faint QRM - CC 3/8
 1421 SINGAPORE, R Corp of Singapore good in EE with pops, ads for Singapore area, e-mail address — KAB 7/9
 6165 0457 NETH ANTILLES, R Netherlands poor in EE with world news, distorted plus QRM // 9590 better — CC 27/9
 6350 0800 HAWAII, AFRTS good in EE with report about Colorado fires — RP 9/9
 0930 HAWAII, AFRTS v good on USB in EE with weather report — KAB 30/8
 6458.5 0524 PUERTO RICO, AFRTS EE w/ talkback abt football, news at 0600 - PVP/JW 16/9
 7105 2015 GREECE?? VOA fair in Arabic fading, VOA address given, lots of IDs — RP 13/9
 7120 1740 MADAGASCAR, R Netherlands fair in EE with scission on AIDS, very scratchy, // 11655 better — CC 21/9
 7135 0648 FRANCE, RFI fair in French to Africa with comment and ID at 0659 — KAB 3/9
 7160 0650 ASECION Is, BBC WS poor in EE to Africa with comment — KAB 3/9
 7185 2030 GERMANY ?? DW fair with s/on in German with IS then ID — RP 11/9
 7195 0650 MOROCCO, VOA relay good in EE with Listener's questions on handicapped people - KAB 3/9
 1915 THAILAND, R Thailand good in EE with news about Thailand - CC 1/9
 7215 1926 MADAGASCAR, R V o People , co-channel Poland goes off at 1926. Poor with full ID in EE 1928, 1933 — BML 23/9
 7230 0514 UK, R Japan good in EE with Mailbag Prgm // 11590 as good — CC 23/9
 7235 2125 CANADA, RCI with Olympic report in EE — PVP/JW
 7245 0415 SPAIN?? VOA fair in Ukrainian and some EE , EE ID at s/off 0458 — RP 1/9

7250 0519 VATICAN, Vatican Radio fair in EE with IS repeated and then change into another language — CC 3/9
 7255 0535 NIGERIA, V of Nigeria good in EE with African and Nigerian news, strong QRM on and off — CC 3/9
 7260 0557 VANUATU, R Vanuatu good in Bislama with ID — DN 16/9
 0650 VANUATU, R Vanuatu v good with news in EE at 0700 — BML 19/9
 7325 2030 UK, Wales Radio Intl poor in EE with good ID at s/on 2030 — RP 8/9
 7410 1754 INDIA, AIR fair in EE with choir singing, a little distorted // 9950, 11620, 11935 weaker — CC 15/8
 7475 0532 TUNISIA, RTVT good in Arabic with lively music // 12005 poorer — CC 4/9
 7490 0505 USA, WJCR good in EE with station announcements and ID — CC 23/9

Thanks to all the contributors for this month. Been a very good month for PNG and Indonesia, have logged several new ones myself. 73's, Ken Baird

CONTRIBUTORS FOR THIS MONTH

BML — Bill McLeod, Christchurch, NRD 545, 60m wire : CC - Cliff Couch, Paraparaumu, ATS 803A, 60m horizontal loop, 2 30m wires N/S, E/W : DN — Dave Norrie, Auckland, AOR 7030, T2FD, 25m longwire with balun, 12m vertical : KAB - Ken Baird, Christchurch, R5000, ATS 909: 15m wire, Eavesdropper: KVB — Kevin Brayshaw, Levin, Collins 51J4, HF Loops & 5MHz dipole : LM — Leigh Morris, South Australia, R8A, AOR 7030, longwires, beveridges: PVP/JW — Phil van de Paverd, R71, 100m longwire, random wire, JW — John West, R71, 30m wire, Waipu Cove : RP — Robert Park, Lower Hutt, R1000, 40ft wire.

Contributions to this column may be sent to PO Box 3011, Auckland or K A Baird, 10 Sarabande Avenue, Christchurch, 5. Ph: +64 3 352 6455, FAX: +64 3 354 1347, e-mail to ka.baird@xtra.co.nz

bandwatch.over9@radiodx.com with Andy McQueen

Hello from Trentham, the new home of New Zealand's Defence HQ. Yes the Army camp here will now include the Airforce and Navy HQ's. And its just across the road from where I work. The equinoxical gales we are now experiencing herald the start of summer but is also a good time to try for Africans. See our list below for some tips Please note all times are UTC .

KHZ TIME COUNTRY STATION & PGM DETAILS INITIALS
 9345 2100 ISRAEL Kol Israel Good in Hebrew on this new frequency // 11585 20/9 IC
 9430 1900 RUSSIA VORWS Fair in EE with Ids at 1931 & 1959 11/9 #RP
 9470 0500 CROATIA? Croatian Radio w Announcements in Croatian, EE nx 15/9 Waipu
 9535 1330 CHINA CRI Excellent in EE with News of Canadian prisoner freed from a Belgrade jail after Milosovic quits . Then Wx and Spectrum prgm AMQ
 9580 0515 PHILIPPINES Philippines Broadcasting service Manila Weak signal in EE/Tagalog with commentary and Id PBS Manila and mentioned medium wave outlet callsign DZRB. Blocked by open carrier at 0530 and later by BBC 29/9 LMM
 9580 1350 AUSTRALIA R Australia Good signal in EE with great prgm of Jazz music then News at 1400 AMQ
 9700 1410 CHINA CRI Fair in EE with News about China but battling to be heard above co-channel Indian station

9730 0400 FRENCH GUIANA CRI relay Excellent in EE with News from "People in the know"
Frequent Ids 11/9 #RP (There was a big fire at this relay station last month and I am not
sure when it will be back on air?- Ed)

9730 1807 VIETNAM V of Vietnam Good in EE with news and Id 10/9 CC

9740 1420 SINGAPORE BBCWS Good in EE with report on China's entry into the World Trade
Organisation AMQ

9750 1810 MALAYSIA V of Malaysia Moderate to good in Malaysian and ethnic music Id
1830 Off 1858 18/9 KVB

9760 1435 GREECE VOA Good in EE // 9860 suffers QRM & 9645 fair but has noticeable
echo AMQ

9820 0517 CUBA R Habana Cuba Fair in EE with Id and local news A little scratchy 23/9 CC

9830 0603 GERMANY? Croatia HRT Zagreb Good signal in EE. Id by YL "This is Croatian
Radio News Bulletin" followed by weather forecast. 0609 regular pgm in Croatian No
mention of final broadcast in EE 29/9 LMM

9840 0505 USA WSHB Strong EE w/ messages about Christian science religion 27/9 CC

9890 1445 MADAGASCAR R Nederland relay Good in EE with Newsline AMQ

9905 0415 FRENCH GUIANA SRI relay Excellent signal in EE with Id at 0429 # 19/9 #RP

9925 0500 BELGIUM? RVI News in Dutch followed by weather 15/9 Waipu

10320 0430 USA? AFRTS Poor in USB mode with Current Affairs show 6/9 #RP

0526 In USB mode with interview of female soccer player till 0600 15/9 Waipu

10490 0545 UNKNOWN LOCATION Spanish Station in LSB mode Waipu

11545 1900 UNKNOWN LOCATION Numbers station time signal then woman reading num-
bers in EE In USB mode BW

11565 0530 HAWAII KWHR Good in EE with religious pgm Id heard at 0600 BW
1300 Good with Cumbre DX programme on Monday mornings BW

11585 1925 ISRAEL Kol Israel Good in Yiddish to 1930 then into French BW

11600 0330 CZECH REPUBLIC Fair in English BW
0347 Fair in EE with talk about early Czech history 7/9 CC
1930 Fair in English BW

11600 1800 SEYCHELLES FEBA Fair in Malaysian until 1900 only on Fridays BW

11605 1630 SEYCHELLES FEBA Opens in EE with good signal but suffers from severe QRM
from co-channel station Only on Sundays 10/9 IC

11605 1920 ISRAEL Kol Israel Good in EE with News headlines before close at 1925 BW

11620 1330 INDIA AIR Bangla Fair in English but poor audio BW

11625 2230 NORWAY R Denmark with Danish to 1359 then I/sig and R Norway takes over in
Norwegian BW

11650 2300 CHINA CRI Good in SS with frequent Ids 13/9 #RP

11660 1330 AUSTRALIA R Australia Fair in English to South East Asia Some QRM BW

11665 0400 RUSSIA V of Tatarsan Good sig in Tatar, clear ID "Voice of Tatarsan" 12/9 # RP

11670 1700 FRANCE RFI Good in French till 1800 BW

11675 0300 KUWAIT R Kuwait with popular Arabic music News in Arabic at 0400 BW

11675 1330 CHINA CRI V/good in EE to South Pacific. Who would be listening? BW (Only
night owls and Dxers?- ED)

11690 0000 THAILAND VOA relay Fair in Tibetan to 0100 BW

11690 0230 CHILE Voz Christiana Good in Spanish with religion BW

11695 1800 RUSSIA VORWS Fair with News in English // 11510 BW

11700 0200 BULGARIA R Bulgaria Good in EE to 0300 then French BW

11705 0230 SRI LANKA VOA relay weak in EE // 11725 BW

11705 0300 ARGENTINA RAE Good in French to close at 0500 BW

11705 1330 GUAM KSDA AWR 'Wavescan' pgm on Monday mornings Closes 1400 BW

11705 1700 RUSSIA D/Welle via Krasnodar Good in Farsi to 1800 //15360 BW

11705 1800 FRANCE RFI Fair in French to Africa BW

11715 0200 CANADA RCI V/good in EE // 9755 & 15170 BW

11725 0230 THAILAND VOA Udorn relay site with EE from 0100 to 0300 //11705 BW

11715 1740 VATICAN CITY Vatican Radio V/good in Latvian to close at 1800 BW

11720 1830 PHILIPPINES R Pilipinas via Tinang in EE with Dateline pgm with comments about
legal aid for the poor & needy. Id as "Radio Pilipinas The overseas service of the Phil-
ippines Broadcasting Service" Tx sched given as 1730-1930 on 11720 15190 and 17720
and at 0230-03330 on 11885 and 15120 but not heard lately at this time slot 29/9 LMM

11725 1105 USA WYFR Family Radio Good in SS with Nice Andean Music and frequent Ids
in SS as "Faamelie Radyo" and QTH as Oakland California AMQ

11725 1800 NEW ZEALAND RNZI V/good in English BW

11730 1015 CHINA CRI Good in EE with News about Chinese Mine disaster AMQ

11730 1730 UNKNOWN LOCATION R Nederland Fair in EE to Africa till after 1800 BW

11734 2000 ZANZIBAR R Tanzania Dola Time pips with Id in Swahili "Hi in sauti v Tanzania
Zanzibar" News bulletin followed by programme of Afro Pops At 2059 Closing an-
nouncements then National Anthem played by Brass Band 30/9 LMM

11785 2030 INDONESIA V of Indonesia Fair in EE with Id "This is the Voice of Indonesia Ja-
karta" at 2037 and 2044 19/9 #RP

11830 0515 CANADA RCI Strong in EE with report on World debt moratorium // 9755 &
5995 weaker 25/9 CC

11885 0345 SEYCHELLES FEBA At good strength in EE but with severe co-channel QRM pest
who went off at 0348 leaving FEBA in the clear leaving FEBA with a great signal Into PP
at 0400 Fridays only 15/9 IC

11915 2100 SRI LANKA D/Welle Trincomalee V/good on Sunday mornings with DX pgm BW

11920 0345 MOROCCO RTV Marocaine V/good in AA and still good at 0450 Then S/off at
0458 with frequency announcements and Id 13/9 IC

11945 2015 PORTUGAL RDP fr sig PP sprts comment //13625.15555 21540 21800 12/9 #RP

11955 2200 SINGAPORE BBCWS Fair signal in EE with "The World today" pgm

11990 1802 KUWAIT R Kuwait Good in EE with Id and pgm about Islam 10/9 CC

11995 0830 PORTUGAL RDP gd sig PP usual long time pips 0800 //12020 21655 21830 #RP

13362 0915 USA? AFRTS Good signal with item on Naval warfare 10/9 #RP

13625 1900 PORTUGAL RDP Good in PP with music and talk Id at 1900 14/9 #RP

13755 0526 CANADA RCI Fair with some distortion in EE with Canadian weather and news
5/9 CC (Is this a new freq?-Ed)

15110 0513 KUWAIT R Kuwait Strong EE with Koran reading by Male and Female 27/9 CC

15115 0526 ECUADOR HCJB strg EE 'Saludos Amigos' pgm, listeners e mail msges 3/9 CC

15190 1902 PHILIPPINES R Pilipinas Very Fair in EE but poor modulation with tourism promo-
tion Listeners Letters and local pop music Id 1904 23/9 KVB

15200 1920 INDIA AIR Strong in EE but poor modulation. Pgm about the export of prawns &
crabs etc. Local music Id 1922 23/9 KVB

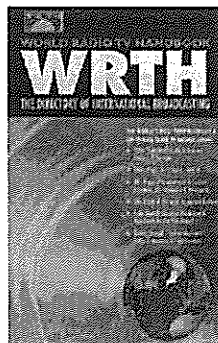
15205 0559 USA? VOA Good in EE with Id at 0600 then 'VOA News Now' pgm 15/9 YGM
 15270 0840 ARMENIA National Radio of Armenia Yerevan IS and Id in EE with Commentary then Mailbag Sundays only. Still giving old Id "This is Yerevan welcome to the Voice of Armenia" Good signal 1/10 LMM
 15280 2340 THAILAND BBCWS Good in EE 5/9 IC
 15335 2003 EGYPT R Cairo with singing in Egyptian 16/9 Waipu
 15400 1900 ASCENSION ISLANDS BBCWS Fair in EE with Id at 2000. 20/9 #RP
 15475 1815 GABON Africa No 1 Poor in French Variety of Music News and live sports commentary Id 1842 S/off at 1900 23/9 KVB
 15476 2015 ANTARTICA R Arcangel San Gabriel Weak signal with polar flutter with SS commentary mentioning Wx and temperatures at 2027 balada music and closed at 2044 mentioning 'territo Argentina Antarctica' 29/9 LMM
 15555 0253 SEYCHELLES FEBA Weak and Noisy in Dari Change of language at 0300until off at .0315 9/9 IC
 1240 Good in AA then into EE at 1245 until S/off at 0100 BW
 15585 0500 PORTUGAL RDP Excellent signal in PP with RDP Id at 0500 //11/9 #RP
 17535 0400 ISRAEL Kol Israel Excellent in EE 6/9 IC
 17580 0000 AUSTRALIA R Australia Good in EE with games coverage //21740 16/9 YGM
 17585 0300 USA VOA Fair with 'Daybreak Africa' in EE 6/9 #RP
 17600 0600 GERMANY D/Welle Good in EE until 0630 then QRM from NHK 5/9 IC
 17715 2130 AUSTRALIA R Australia Good in EE with live Olympic report from Sydney ABC network #AMQ
 2350 Good in EE with Id at 2358 and off at 0001// 21740 15/9 YGM
 21460 0527 PAKISTAN R Pakistan fair, Female annrcr in Urdu? //15175 17835 weaker 4/9 CC
 0559 Fair in presumed Urdu News pgm Id at 0600 Some QRM from 21455 5/9 KVB
 21570 0635 JAPAN NHK/R Japan V/good in EE with language lessons 5/9 IC
 0650 Excellent in EE with Id at 0700 then into JJ 16/9 YGM
 21580 0830 SOUTH AFRICA Sih African Amateur Radio League via Meyerton Fair in EE with contests and reception conditions Sundays only 1/10 LMM
 21590 0725 GERMANY High Adventure Ministries Very Fair in AA & EE with contemporary religious Mx. Id at 0801 23/9 KVB
 0840 V/good in EE Address given as PO Box 53379 Lommasol Cyprus 5/9 IC
 21750 0730 SWITZERLAND SRI Good in EE 6/9 IC
 21755 0935 NORWAY R Denmark Very Fair in Danish Id at S/off 0954 3/9 KVB
 21814 0358 COSTA RICA Fair in EE on USB with Music, ID A little background noise 7/9 CC
 21830 0457 CYPRUS BBCWS Fair in EE with Talk on China S/off at 0500 23/9 CC
 21830 0802 GT BRITAIN BBCWS Rampisham Good in EE Slight co-channel QRM but best signal on band News pgm Id 0804 3/9 KVB
 25820 0939 FRANCE RFI Fair in French with interview I/sig at 0940 3/9 KVB
 25950 0155 USA Auxiliary station KTM556 Portland OR rebroadcasting WQAM Sports Radio, ID as "Westwood One" w/ Sunday night NFL, ads ID 0157 Faded 0208 25/9 KVB

Thanks very much to all this month's contributors. A # mark indicates a report has been sent to the station. New contributors are most welcome. A Special request as I am going to be on holiday in early November can you please send in your contributions to me by no later than **Wednesday 1 November**. You can contact me either via P O Box 3011 Auckland or direct to me via the Email address above or by post to 36A Brentwood Street Trentham

Ladders@radiodx.com with Peter Grenfell in Oamaru

A very big welcome to Robert A. Park from Lower Hutt joining the ladders for the first time. Apologies for August's totals being out of line. they went away from here in so have no idea what happened.

MEDIUMWAVE	QSLs	INC	CNTS	SHORTWAVE	QSLs	INC	CNTS
OPEN (Over 500)				OPEN (Over 500)			
Laurie Boyer	3972		137	Ian Cattermole	3925	60	197
Keith Robinson	2929		157	Jack Searle	2330	15	207
Paul Ormandy	1484		139	Laurie Boyer	1750		183
Sutton Burtenshaw	970	23	102	John Campbell	1612		260
George Beardsmore	802		61	Paul Ormandy	1600		234
Bryan Clark	673		120	Bryan Clark	1545		236
Mark Nicholls	643		67	Lindsay Robinson	1420		169
John Campbell	641		129	Brian Withers	1297		128
Paul Aronsen	529			Mike Smith	1218		133
Lindsay Robinson	524		56	Robert A Park	1182		90
SENIOR (301-500)				Leigh Morris	1065		233
Peter Grenfell	443		37	Ross Gibson	1055		162
Stuart Forsyth	413		39	Graeme Dixon	916		117
Brian Withers	411		51	Paul Peacock	845	4	123
INTERMEDIATE (151-300)				Paul Aronsen	733		
Jack Searle	295	1	35	Peter Grenfell	653		133
Andy McQueen	295		21	Ian Wells	582		133
Robert Krijger	228		13	SENIOR (301-500)			
Mike Smith	194		18	Bernd Henning	372		90
Paul Peacock	193		16	Andy McQueen	368		103
JUNIOR (5-150)				Bob Boundy	400		91
Ian Wells	108		15	Chris Elliot	301		78
Robert Park	86		2	INTERMEDIATE (151-300)			
Adam Claydon	71		4	Stuart Forsyth	283		87
Arthur de Maine	51	1	10	Arthur de Maine	260	10	90
Chris Elliot	15		3	Ashley Gulbransen	193		75
FM-TELEVISION				Keith Robinson	190		181
Brian Withers	899		9	JUNIOR (5-150)			
Robert Krijger	678		6	George Beardsmore	129		68
Bryan Clark	148		5	Adam Claydon	123		40
Paul Ormandy	110		5	Mark Nicholls	121		55
Paul Peacock	65		2	Daniel Bloomfield	13		11
Adam Claydon	49		1	Peter Grenfell			
Mark Nicholls	42		2	1 Stour Street			
Mike Smith	33		2	OAMARU			
Andy McQueen	29		2	PH/FAX (03) 4345907			
Robert A Park	17		1	Email petedx@es.co.nz			



New 2001 editions of both *Passport to World Band Radio* and *World Radio TV Handbook*!

Yes both books will be available soon — the Passport in early November and the WRTH in early December.

Please note that we quote here the suggested retail prices, but members of these DX clubs (NZRDXL, NZDXRA, NZART, EDXP and ARDXC) are entitled to **20% discount** off these prices!

Passport to World Band Radio 2001

The table of contents for this formidable book includes features on: The World of World Band Radio maps; World band in Bhutan; Ten of the Best Shows on World Band Radio; the Complete Idiot's Guide to World Band Radio; What to Listen with: the best and the worst world band radios; and of course the Blue Pages WorldScan ".

Recommended Retail Price in NZ \$52.95 but remember club members can deduct a **discount** of 20%.

World Radio TV Handbook 2001

Still the guide to World Radio and Television that the professionals use as well as those who want it all (or as much as you can fit in a single volume). While Passport is for shortwave listeners and DXers, the WRTH is for those who chase medium wave, long wave and FM or television stations. More addresses and more information.

Recommended retail price in NZ \$62.95 but remember club members can deduct 20% discount.

The Double Deal

Buy both books and pay only NZ\$85.00 (no discount applies) but you must be a member of one of the clubs named above or any club affiliated to SPARC. Proof of membership may be required.

The Double Deal Offer only valid until 15th November 2000.

Payment

Cheque, or VISA/Mastercard. Creditcard orders must include card number, name on card, expiry date, and signature of cardholder. Our Australian friends can pay by personal cheque in Australian dollars, by multiplying the price by 0.8 eg NZ\$40 equals A\$32. Make cheques payable to **Burnet Pollard Books**. All our prices include GST and delivery to New Zealand addresses, or delivery only to Australian addresses. Residents of other countries should write for our postage rates to their part of the world.

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Also in stock are a few copies only of the Australia and New Zealand Mediumwave Guides compiled by Paul Ormandy and John Wright priced at NZ\$16 this includes postage & packing to New Zealand addresses. Cheques are preferred for items under NZ\$20.



Promote the DX League on the Internet - use your free @radiodx.com e-mail address!

Gudday from Sulphur City. I'm Adam Claydon the new sub-editor of the TV/FM DX section. I am a radio announcer on Gospel Radio 95.1FM in Rotorua. I hope you will find this section of great interest to you as the FM radio spectrum is constantly changing, especially with the 101-108FM band tender coming very soon. Feel free to send any TV/FM news to the DX Times PO Box address or adam@radiodx.com.

Here's a list of FM stations I can hear with my not-very-elaborate receiver: **88.0** Kaitoa 88FM, **88.2** Tourist Information FM (English, Agrodome), **88.5** Gospel Radio (stereo), **89.0** Radio Te Arawa, **89.3** Lakes 96FM, **90.3** Concert FM, **90.9** Classic Hits 97FM, **91.1** Solid Gold FM, **91.4** Concert FM, **91.9** Radio Pacific, **92.7** The Rock, **93.5** Radio Rhema, **94.3** The Mix, **94.6** Life FM, **95.1** Gospel Radio (mono), **95.9** Lakes 96FM, **96.7** Mai FM, **97.5** Classic Hits 97FM, **98.3** ZM, **98.6** Classic Hits ZHFM, **99.1** The Pulse, **99.9** The Edge, **100.4** Tourist Information FM (German).

THE FLEA! New on 88.2 FM in Auckland is micro-broadcaster 88FM, the Flea, Devonport Community Radio. Promos like 'the little station with a big bite' and 'you've been bitten by the Flea'. Reasonable reception all the way along the harbour from Ponsonby eastwards to St Heliers. Carries some commercials including 'Ports of Auckland' which appears to be a prime sponsor. The Flea 88.2 is mono. Format is best described as musical variety. (Bryan Clark)

MAI ON THE MOVE Auckland FM DXer Tim Moore reports rumours that 88.6 Mai FM may be moving to above 101MHz. Apparently the bureaucrats want to move all high powered FM broadcasting out of the 88.00 to 89.00 range, and open this up for low powered stations, and special event stations etc.

Tony King is interested in the suggested move of hi power FMers to above 100. He says rumours are that Arrow will go up there although 99.8 was offered as an interim freq. He also found out that a test from the proposed site for Arrow with the 300 watts didn't go the distance so on 25 October a test will be made off the current TV3 tower wherever that is here (Wairarapa) - presumably higher than formerly.

RADIO SPORT In case it's of interest: Radio Sport frequencies are available calling 0508 667 234, and are currently: Auckland 1332, Canterbury 1503, Hawkes Bay 1125, Kapiti Coast **92.7**, Manawatu 1089, Marlborough **91.3**, Nelson 549, Otago 693, Rotorua 1350, South Canterbury 1494, Southland 558, Taranaki 774, Taupo **90.2**, Tauranga **91.0**, Upper Hutt **89.4**, Waikato 792, Wanganui 1062, Wellington 1503, West Coast **99.1**, Whangarei 729 according to a recent advert in Lifestyle Farmer. Address: Private Bag 92198, Auckland. T: 09 373 0000; Fax: 09 367 4644; email: sport@radiosport.co.nz (David Ricquish)

As far as the Radio Sport address goes, Barry Hartley suggests that any reception reports be sent to John Bloomfield, Technical Manager, TRN, Private Bag 92198, AUCKLAND. The reason is that no-one in TRN these days would know what a reception report is and what to do with it, staff turnover is rapid, he sees them everyday and most don't last long.

NATIONAL RADIO ON FM There is a new low power community owned National Radio relay at Milford Sound on 92.0 MHz. That's a real DX challenge. It gets its programme

feed from the Sky digital satellite. (Barry Hartley)

MORE ON TAHU FM Tahu FM - The Heart of the South is now broadcasting in Invercargill on 99.6FM. They have just finished their new website - <http://www.geocities.com/tahufm/> Their email address is tahufm@hotmail.com or shanep@tahu.co.nz (Rachael Malcolm via Andy Gardner)

RADIO REDWOOD Radio Redwood (Good Music 100.2 FM). Website - http://www.geocities.com/radio_redwood/ E-mail - radio-redwood@zfree.co.nz. Address - Tuckers Rd., Redwood, Christchurch. Phone 03 354 1005 A/H 03 352 6245 (Andy Gardner)

PAY-PER-VIEW ON SKY TV Sky Digital added two new pay-per-view channels on 1st October: Sky Box Office Movies on channel 41, and Playboy TV on channel 42. (Adam Claydon)

MORE LOCAL TV FOR ROTORUA Geyser TV changed frequency to channel 29 UHF on 10th October. City TV will be broadcasting on GTV's old frequency of channel 33 with local programming from 1st November. GTV's phone number: 07 348 8984. (Adam Claydon)

NEW STATIONS IN SAMOA Courtesy of the Pacific Islands Report website is this item: SAMOA'S RADIO POLYNESIA CELEBRATES 11TH YEAR, LAUNCHES NEW STATIONS APIA, Samoa (October 1, 2000 - Samoa Observer/PINA Nius Online)—Radio Polynesia Ltd. celebrated two milestones during the weekend: It officially marked the 11th year of operation as Samoa's sole non-government commercial radio station, and it launched two additional stations. Magic FM on frequency 98.1 will continue with a program format of only Top 40 hits, K Lite FM on frequency 101.1 will provide a program format of easy listening music, and Talofa FM on frequency 96.1 will provide an all Samoan language and music program. To mark the occasion, Radio Polynesia Ltd. organised a Market Day at the To'oa Salamasina Hall. More than 30 local businesses set up stalls in the hall and provided shoppers with a chance to experience a "Mall in a Hall" experience. The Samoa Performing Arts Institute added a touch of class with the entertainment. In doing so, they continued their quest for Samoa's top performing artists with the Samoa National Talent Competition. The popular New Zealand based Samoan band Jamoa Jam added the final touches with live performances to cap off the day. Events were broadcast live on air not just on one, but on all three stations. (Matt Francis)

AUSTRALIA: NEW FM LICENSES The Australian Broadcasting Authority has invited applications for a new commercial radio broadcasting licence in Melbourne. The reserve price for the licence is \$500,000 and the new service will operate on 91.5 MHz on the FM band. Applications also called for a new license for Gosford, NSW, to operate on 104.5 MHz with a \$100,000 reserve. (ABA, via Matt Francis)

ZORRO AND WONDERWOMAN JOIN SUPERMAN IN COURT The Edge DJ **Iain Stables**, dressed as Superman, was joined by supporters wearing Zorro and Wonderwoman outfits when he re-appeared in the Hamilton District Court yesterday on charges of impersonating a police officer and misusing a telephone. He is still yet to plead, and was remanded again to appear on October 18. Why the Superman suit? Because "you can't put a superhero in prison", he told the *Waikato Times*. And also because it felt nice. The court case has turned out to be a rather successful story and print reports all over the world. (e-MedianStrip October 6, 2000)

adcom.news@radiodx.com compiled by Bryan Clark, Auckland

IMPORTANT CHANGES AT THE DX TIMES This issue completes 52 continuous years of publishing the NZ DX Times, or 624 monthly editions. It is also the final issue with **ANDY GARDNER** at the helm as Chief Editor and Publisher. In July 1998, Andy introduced a complete electronic desktop publishing process to the magazine, with all editorial communication including delivery of the magazine to the printer being achieved by electronic mail. On behalf of all members we thank Andy for providing his expertise and enthusiasm to producing the magazine, particularly over the past year while he has been travelling the world.

Incoming chief editor **MARK NICHOLLS** has been a member of the DX League continuously since 1974, when the late **ARTHUR CUSHEN** sent him a complimentary copy of the DX Times after hearing Mark's name announced over Radio Australia. His main DX interest has been the MW band but he has also dabbled on Shortwave and FM. In the past Mark has held a number of editorial positions with the DX Times, including Continents Editor during the 1980s. He will take up his new role from 1 November.

Mark will be assisted by **STEVE & CAROLYN RAWDON** who will be responsible for the 'pre-press' role of converting the magazine content into the electronic format for email delivery to the Printer/Distributor. Our grateful thanks to Mark, and also to Steve & Carolyn, for taking on the challenge of producing the 'NZ DX Times' each month. Please show your support by sending in details of your long-distance listening, QSLs received, or anything about radio that could interest our members.

BEST TECHNICAL ARTICLE In periodic member questionnaires, a common request is that the magazine include more technical articles about receivers, antennas and other aids to the hobby of distant radio listening. Adcom has reintroduced an annual award to recognise what the committee considers to have been the best such article each year. The 1999/2000 winner is **PETER CHAMBERS** of Napier, for his article "Radial Wire Aerials" published in the October 1999 issue of the DX Times. For his efforts, Peter has been awarded a years subscription to this magazine! So, why not put pen to paper, or fingers to keyboard, and share your experiences or ideas with other members.

A SPECIAL THANK YOU to the following members who have made donations to the club recently: **GAVIN BENNETT** and **BARRY WILLIAMS**

SUBSCRIPTION REMINDERS Our Treasurer **PHIL VAN DE PAVERD** is trialling the inclusion of messages on the member address label to remind us of when our annual subscription is due. The expiry date of your current membership appears in red at the top of your mailing label. Please note it on your calendar. Additional text will appear when your subscription is about to expire.

CONGRATULATIONS to Adventist World Radio's informative "Wavescan" programme which has just celebrated its 300th edition. The best time to hear "Wavescan" is via ZLXA Levin (3935kHz SW) at 8pm NZLT Mondays.

APOLOGIES FOR THE LATE DELIVERY OF THE OCTOBER DXT

Sorry for the delay in the magazine. I was not expecting to start as the new editor until next month. So please bear with me for any mistakes or omissions in this issue

Due to Andy McQueen going on holiday any contributions not received for his over 9 SW Bandwatch column by today Saturday 4th Nov will appear in the December DXT. Mark Nicholls Editor

branch.news@radiodx.com

Auckland The September meeting had 17 present. John West in his Waipu Cove DXpedition report mentioned that sunspot activity was high and that the Whangarei Cash Converters store still has a Yaesu FRQ-7 there since the last DXpedition 3 months previous; Phil van de Paverd used a dual switchable antenna system with a preamp and was reaping in signals gallore! Mike Butler gave a Solar Cycle sunspot report with solar flux averages showing two peaks of 207.2 for March and 201.2 for July of this year; March looks like the best average peak candidate in the out-going 11-year cycle number. We await the official word from overseas to see if Mike is right! Barry Williams had a look at the NZART 2001 75th Anniversary Conference planned venue for Auckland Girls Grammar school. One classroom has been booked for the DX League's display, 6 classrooms in all for displays. The Gym will be used for the conference itself. The national AGM and DX outing was held at the Scout Camp Motu Moana, Green Bay, Auckland over the weekend of 13-15 October with Saturday seeing a good attendance for the AGM. Several members were absent - visiting the Hamilton amateur radio junk sale however one managed to make it back to Auckland in time! Next meeting will be at 2 pm on Sunday 29 October at the Clubrooms, 3000 Great North Road, New Lynn, just past Whau Creek.

broadcast.news@radiodx.com with Bryan Clark, Auckland

X-BAND UPDATE (news from the 1610-1700kHz range)

AUSTRALIA Australia's newest X Bander commenced transmission on 4 August from Dalby Queensland. 4DB is running 400 watts on 1629, 24 hours a day with a 'Country Rock' format. Programme Director is Geoff Roberts. Address is P O Box 630 Dalby 4405, Queenstown. Phone number (+61) 07-4669-8555. (Chris Martin) 1629 kHz is becoming a little congested here in the south east corner of Queensland as Brisbane station Radio Italia on 1629 seems to be running more than 400 watts. I have noted its ground wave to be travelling further than others in the area, like Radio 1701, in daylight hours. (Chris Martin) Radio Devine, Sydney was

the identification heard on **1701** on 24 September at 1300 UTC. Continuous Hindi programming. (Walt Salmaniw & John Bryant on DXpedition in Washington State USA via IRCA SDXM)

PHILIPPINES A Filipino X Bander has been logged here in Brisbane. Thanks to a tip from Kazeto Unabara in Japan, I have been able to log the Manila station on **1674** kHz at 1030 UTC giving id as DZBF. (Chris Martin)

USA (all items from IRCA DX Monitor 9-10/00)

- 1630 WRDW (WAWX) Augusta GA heard 3 October with ABC Network News on the hour, after ident as "WRDW Augusta" (Pat Martin-OR)
- 1640 WXOK Baton Rouge LA format now ABC black gospel.
- 1660 KQWB West Fargo ND has swapped calls with KQJD 1550. On since 4 September. Format is Westwood 1 Adult Standards. Ident as "Your memory station is KQWB AM West Fargo. Now it's time for CNN News." (Nancy Johnson MT) "We're playing all your favourites, here on Star 1660." (Robert Wein CA) QSL letter received from Chief Engineer Mark Borchert, P.O. Box 9919, Fargo ND 58106-9919. (Patrick Martin OR)
- WQRS Marco Island FL new call letters requested ex WMIIB.
- 1690 KCRD Burbank CA will start testing here "the last of October, the first of November 2000". Tests will be conducted during the day only with 1kw non-directional. Info from Ed Stokes at QUAD 104 who will be conducting the tests via Gary Jackson via Patrick Martin)

MEDIUM WAVE NEWS FROM AROUND THE WORLD

NEW ZEALAND National Radio in Taupo is due to switch to FM in October and the **1494** AM frequency will simulcast for a while with occasional retuning announcements, then switch to solely retuning announcements and then 1494 kHz will go! (Barry Hartley via Paul Ormandy) In case it's of interest, Radio Sport frequencies are available by calling 0508 667 234. The current lineup is Auckland 1332, Canterbury 1503, Hawkes Bay 1125, Kapiti Coast 92.7, Manawatu 1089, Marlborough 91.3, Nelson 549, Otago 693, Rotorua 1350, South Canterbury 1494, Southland 558, Taranaki 774, Taupo 90.2, Tauranga 91, Upper Hutt 89.4, Waikato 792, Wanganui 1062, Wellington 1503, West Coast 99.1, Whangarei 729 according to a recent advert in Lifestyle Farmer. Address: Private Bag 92198, Auckland. Telephone 64-9-373-0000; Fax: 64-9-367-4644; email: sport@radiosport.co.nz. (David Ricquish) I would suggest that any reception reports be sent to John Bloomfield, Technical Manager, TRN, Private Bag, 92198, Auckland. (Barry Hartley via Paul Ormandy)

QSL letter for Samoan Capital Radio **783** received from M. Lui, Station Administrator, Samoan Capital Radio, P.O. Box 6647, Te Aro, Wellington, in 35 days; Patrick Martin (IRCA)

AUSTRALIA Medium wave station 2UE (**954** AM) is close to stealing 2DAY-FM's crown as Sydney's most-heard radio station, according to ratings figures released yesterday by ACNielsen. With an increase of 1.4 percentage points since July, 2UE now attracts 13.8 per cent of mainstream stations' listeners - equal to the share attracted by 2DAY (which declined by 0.7 points). Much of 2UE's success can be attributed to gains of 2.1 points in the ratings of Alan Jones at breakfast and John Stanley on the afternoon shift. After 2UE, the biggest gainer

was 2WS FM, which rose 1.3 points to 7.4 per cent of the mainstream audience. The biggest loser was MIX 106.5, which dropped 1.2 points to 8.3 per cent. This will come as good news to those who like the rock music of the 1960s, which dominates the 2WS format but is excluded from the MIX music format. The biggest gains for 2UE were in the 25-39-year age group, which is much loved by advertisers, the age group where MIX suffered its biggest loss. (Sydney Morning Herald 27/9 Mike Brooker IRCA)

CAMBODIA **918** has reactivated from Steung Meanchey, Phnom Penh with 120kw. (AGD website, Dec 1999). **1360** appears to be inactive. Correct address is Overseas Service, National Radio of Cambodia, Rukhak Vithei Phrea Kossamak (Street 106), Phnom Penh. (Maarten Van Delft via Dave Kenny-UK, BDXC-UK via DXLD Feb 28 via BC-DX 455 via IRCA)

CHINA Yiyang PBS **1039v** heard till 1400. (T. Gima ABI via Y. Kato via IRCA)

ESTONIA Construction work for the new 100kw transmitter in Tartu on **612** kHz are due to start soon. Official inauguration is planned for 24 December 2000. The station will carry religious programmes in Russian under the name "Semeynoye Radio" (Family Radio), from studios in Tartu. (Bernd Trutenau, Lithuania, via MWC via IRCA)

GIBRALTAR The GBC have started testing their new transmitter initially with only 500 watts while it is tested eventually to increase to 5kw design output. They expect comments plus requests for QSLs from folk outside their estimated coverage area. All locally produced programming ends at 2000 hours local after which they relay BBC World Service over night. (George Gaskin via Roger Bunney MWC via IRCA) *Presume frequency is 1458. Ed*

KOREA SOUTH A new program network, KBS 3rd Radio, was started on 1st January on **639**. Schedule is 2100-1800 (1600-1800 relay of KBS-1). (T. Yamashita in ABI via Y. Kato via IRCA)

KUWAIT Radio of the Future (Al-Mustaqbal) heard on **1575** with ID as "Huna idha'at al-Mustaqbal, Sawt al-Wifaq al-Watani al-Iraqi" (Radio of the Future, Voice of Iraqi National Accord). The programme was in Arabic with segments in Kurdish. Address is P.O.Box 3124, London SW19 1RL, United Kingdom. Fax: (0181) 5432932 (BCDX via IRCA)

LITHUANIA All MW transmitter of Lietuvos Radijas were switched off on 1 May due to budget cuts, except for Sitkunai **666** (LR-1) which is now on the air 0300-2000 UTC. Radio Baltic Waves on 612 kHz (Vilnius-Virsuliskes 50 kw) continues as before. On RBW's initiative, a new 250kw MW transmitter is going to be built at Turgeliai (SE of Vilnius, 10km from the Belarusian border). It will broadcast on **1233** kHz with a 2-mast directional antenna switchable to 120 resp. 300°. (Bernd Trutenau, Lithuania via MW Circle via IRCA)

MALAYSIA The following transmitters in Sabah are currently observed (April-May 2000). Many are slightly below channel - in fact transmitters in Sabah have a distinct tendency to drift off frequency, invariably downwards. Most of these join networks carried 24 hours on FM, jumping straight in and out of the programming at sign-on and sign-off times with no special formalities or IDs.

Radio Malaysia Sabah 'Nasional' in Bahasa Malaysia on **565** Tenom, **603** Tuaran (Kota Kinabulu), **801** Kudat heard till 1400. Radio Malaysia Sabah 'Blue Network' on **690** Tuaran (Kota Kinabulu) till 1330 // 5979.4 SW, **774** Tenom till 1330, **1197** Kudat till 1400. Radio Malaysia Sabah Siaran Dari Sandakan on **783** Kadazan. Radio Malaysia Sabah Siaran Dari Tawau uses **747** Tawau audible 2145-1100 with mostly local programming. Suara Malaysia **1475** Tuaran broadcasts 1030-1300 to the Philippines. (Alan Davies, listening in Sandakan, Sabah via IRCA)

OMAN: According to David Plater, former Senior Transmitter Engineer at the BBC relay station on Masirah Island (**1413** and 720kHz Ed) "The station lease has been extended until November 2002. The construction of the new station at Al Ashkharah (*on the mainland*. Ed) will start soon. The address given for reports, P.O.Box 6898 Ruwi, is actually the British embassy commercial section. Direct address is BERS, P.O.Box 23, Wilayat Masirah, Postal Code 414, Sultanate of Oman. (George Maroti, Cumbre DX via BC-DX via IRCA)
Radio Oman, Salalah is on **738** ex 1035 (Alan Davies via IRCA)

PALAU Voice of Palau T8AA **1584** noted with very good reception in Sandakan, Malaysia on evenings of 2, 3 & 4 May. Carries many syndicated US news and sport reports, and a long, repetitive tune - presumably National Anthem - just before close-down announcement at 1500 UTC. T8AA is a change from listed call-sign WSZB. (Alan Davies, Cumbre DX via IRCA)

MEXICO Per http://www.sct.gob.mx/satelital/am/am_sin.html XECU Los Mochis 1470 has moved to **1450** kHz and increased their day power to 10kw (still 1kw nights). The station is non-directional days and nights, so could make for an interesting sunrise or sunset target for a lot of DXers. (Tim Hall CA via Pat Martin)

MOROCCO: RTM heard on **1205a** with several ID's. Maybe Agadir ex-1197? Sometimes // 540 & 936, but often also Berber network. This could explain several UNID Middle East stations heard here. (J.Mäntylä HCDX via IRCA)

PHILIPPINES Has anyone reported a flipino on **1296**kHz? I heard one at 1400 UTC, identifying as "DZFM" or something close to those call letters. Any ideas? I presume it was from Southern Philippines as conditions were very AU, with mostly NZ and Australian DX. No Northern Asians were heard, not even the 500kw. (Patrick Martin via HardCore DX via PWO)
Super Radyo AM, existing stations: Manila, Cebu, Laoag, Dagupan, Puerto Princesa, Roxas, Bacolod, Davao, General Santos, Marbel, Zamboanga; (DYSI Iloilo 1323 also known) Planned stations: Butuan, Cagayan de Oro, Kalibo, Naga, Vigan, Cauayan, Iligan, Ozamis, Pagadian, Cotabato (GMA website via Olle Alm via IRCA DX Monitor)

Some unlisted stations or stations with differing/additional information heard in Sandakan, Malaysia, 30 April-2May 2000. Callsigns are 'as heard' and not guaranteed correct:

- 585 DYLL Iloilo – PBS / Super Radyo (listed callsign is DYCI)
- 765 DYPR Puerto Princesa – Palawan Broadcasting Corporation
- 909 DYSP is a good daytime signal here, also with slogan 'Super Radyo Palawan', and announcing use of 5000 watts from Puerto Princesa.
- 945 DXRO Cotabato – Angel Radyo

- 963 DXYZ Zamboanga – Angel Radyo
- 1134 DXOS according to announcements is operated by the Public Affairs Service of the Philippines Armed Forces on Basilan Island. Appears to sign off around 0900.
- 1179 DYSB Bacolod – Super Radyo
- 567, 693 Also Manila Broadcasting Company (MBC / "DZRH") heard local daytime on these frequencies from unknown locations, both in parallel with 855 presumed from Zamboanga. Difficult to deduce much from their confusing canned IDs. Not much else to do here in Sandakan but listen to the many PHL stations on MW – about 40 clearly audible during daytime. (Alan Davies, Sandakan, Malaysia via IRCA)

UAE Radio Asia is operating on **1152** from Ras Al Khaimah-UAE with 200kw. It is for Indian expatriates in the Gulf and programmes are in Hindi, Urdu and Malayalam. Address is Dolphin Recording Studio, Box 8588, Dubai, UAE. Station has been operating for several years. (Jose Jacob, India via IRCA)

VATICAN Vatican Radio now broadcasts 24 hours a day on **527** - Jubilee Channel 1 in Italian/French/English from 0400 to 2210 and Studio A With You in the Night (classical and light music) from 2210 to 0400. (Stefano Valianti, MWC)

NORTH AMERICAN STATION NEWS

courtesy IRCA's DX Monitor 9-10/2000

- 550 KGME Phoenix AZ requests KFYI call in swap with 910. Call swap to occur on 25 September. Format news/talk.
- 620 KRDY Grand Junction CO has become KSTR "Star".
- 680 WCNN North Atlanta GA format now ESPN sports "The Fan", ex AC.
- 850 KACD Thousand Oaks CA new call ex KBET. Format now adult alternative (also streaming audio on Internet as worldclassrock.com).
- 890 KTLR Oklahoma City OK new callsign replacing KKNG
- 900 CJVI Victoria BC moves to FM 103.1 in swap with CKMO.
- 910 KFYI Phoenix AZ requests new call KGME "The Game", sports format. WPRP Ponce PR has construction permit for 4.4kw day & night, ND.
- 920 KSRM Soldotna AK format is now ABC talk and Country music.
- 940 KWRU Fresno CA w/ ident on hour "Kah-double-uh-erre-uh, Fresno, Radio Unica." Call change, ex-KFRE. (Rob.Wein-CA)
- 950 WWJ Detroit MI granted increase to 50kw nights, directional antenna.
- 970 WWSW Pittsburgh PA format was Oldies, now Fox Sports "The Burgh".
- 980 WTRY Troy NY has requested new call WOFX "Fox Sports".
- 1040 KCBR- Monument CO has CP for 15kw days, 2kw nights ND.
- 1060 KOFY Gilmer TX format now SS variety "1060 Radio Grande".
- 1100 KZPM Bakersfield CA format is now regional Mexican //KNTO.
- 1140 KSLD Soldotna AK classic rock station is reported silent, off-air.
- 1160 WXRT Chicago IL, ex WSCR. Since 15 August local midnight, this frequency carries WXRT (FM 93.1) programming. Calls are WXRT AM, while the calls on 670kHz officially became WSCR as of this day also.with local spots, "93-XRT" slogan. Modern

- Adult Contemporary format simulcast from WXRT-FM Chicago while station sale is pending. (Eric Bueneman MO)
- 1170 KCBQ San Diego CA seeks increase of night power to 4.5kw DA-2.
- 1190 KJOI Dallas TX, new callsign ex KLUV.
- 1210 WNMA Miami Springs FL granted modified construction permit to increase power to 47kw days, DA-2.
KPRZ San Marcos CA has construction permit for 10kw nights DA-2.
- 1220 CKCW Moncton NB granted move to 94.5 FM.
- 1240 KLTH San Bernadino CA carries religious programming, "K-Light".
- 1250 KKGM Kansas City KS has changed call letters to KXTR.
- 1270 KDJI Holbrook AZ format was oldies, now ESPN Sports.
- 1290 KKAR Bellevue NE granted construction permit for 7.3kw days, ND.
- 1310 KFKA Greeley CO carries Nashville country music overnight.
- 1360 KAHZ Fort Worth TX granted daytime power increase to 50kw D, DA-2.
- 1380 WNNY New York City NY carrying loop tape announcing that 'Noticias Nueva York' is coming soon.
KRKO Everett WA seeks increase to 50kw day & night, DA-2.
WONO Fort Wayne IN format is now ESPN Sports.
- 1390 WNIO Youngstown OH has requested 5kw nights, directional antenna.
- 1460 WZNZ- Jacksonville FL was news format, now contemporary Christian.
- 1470 KUTY Palmdale CO format is now Unica talk in Spanish.
- 1480 WODX Marco Island FL requests callsign change to WIXI
- 1550 KUAT is now KUAZ, "University of Arizona".
KXTR Kansas City KS ex KKGM, sports, format now SPR classical.
- 1560 WMRO Gallatin TN has construction permit for 3kw nights ND.
KILE Bellaire TX has applied for 1kw nights, DA-2.
- 1570 CKEG Nanaimo BC requests move to 106.9 FM.
- 1590 KELP El Paso TX granted increase to 50kw days, DA-2.
- 1600 KCKK Lakewood CO format is now classic country.

broadcast.dx@radiodx.com with Paul Ormandy, Oamaru

Hi all. One of the largest mailbags in a long time! Reports of excellent DX from suburban Auckland and the Wairarapa. Bryan's been chasing Wisconsin for some time and I bet he never thought he would nail it from home!

And some rather weird conditions thanks to Ol' Sol doing his thing. There has been no concert amongst solar observers that we have seen the peak of Cycle #23 though all indications are that we are close to it. Certainly some recent solar events, i.e. proton storms and coronal holes have lead to increased A-index figures and visible auroras all of which have an impact on DXing MW. I've found that high A-index figures (20 plus) favour mid-latitude reception, most demonstrated here with higher signal levels from the US and really high (60 plus) seem to wipe out the mid-East and East while lifting signals from the West and mid-West. High A-index figures tend to not last very long at all so it can be a case of brilliant reception giving way to bad the following day! The motto being, tune in often!

And a few more DXers sporting their Top 10 Channels list... the Licorice Stick has really

sparked some interest here!

And the Auckland Branch has been off to Waipu Cove 15-17th September, resulting in a number of MW logs... most interesting being on 1420!

Sutton Burtenshaw, Hamilton, "Reports away to 1ZH, 1XK, 2YP, 1XTR, 4YA, and R Sport 1332. Have also logged while plane waiting in Christchurch, 3XG, COA 1017, and CFM 1260. While

at Winton Southland, 4ZA NT-ZB, 4XF, 4ZG, and Southern Star 1026. Was great to see old friends again." *Guess we'll see some foreign DX showing up there soon... how's the ICF 6800W going?*

Tony King, Greytown, "Sunday night for an hour had incredible signal from WKSH Sussex-Milwaukee, WI 1640. No other station in the X band as good - got an hour on tape. BDC (*Bryan Dixer Clark...ed*) also heard it after my prompt. FYI has a web-site at www.lifemessages.org (given in programme) with address, phone number, e-mail address am1640@ etc. takes Salem radio News (SRN) at 55 and 25 mins past the hour. All on my good ole realistic TRF with the well worn loop." *So, there is life in the old loop after all!*

Bryan Clark, Auckland reports a logging of WKSH from home in Mission Bay, thanks to a tip from Tony King. "Sunday night had an excited phone call from Tony at Greytown to say he was hearing 1640 Yank on his portable and loop at Greytown (Wairarapa). Turned on the AOR but frequency obliterated by TVI. Turned off the TV and audio evident but burglar alarm troublesome. So grabbed the Sony 7600G on battery power and sat it on top of the loop antenna and voila! There was WKSH Wisconsin. Logged from 0706 till 0801 on the Sony. Idents before the half-hour and hour. Very bad static bursts but quite loggable in between. Also noted Yanks on 1660, 1670 and 1680. I haven't verified a Wisconsin station yet so I MUST get this report away. Got me sufficiently enthused to consider buying a car battery so I can run the AOR away from the mains too. I recall you recommending a deep cycle battery. Can you tell me a bit more in case the salesman doesn't know what I mean? Presume they cost more but hold their charge longer? Will a normal (cheap) battery charger do the job or do you need a special one for this battery type? As you will realise I am ignorant on these matters!" For anyone considering buying a battery for radio work, don't go past a deep-cycle type. It'll cost you more (about double) a standard lead-acid but the pros significantly outweigh the cons. They'll really take a hammering under heavy load and bounce right back. They deliver a consistent voltage and don't mind being completely flattened then re-charged (unlike a conventional car battery). You don't need a special charger and don't let the salesman say "you'd be better off with..." spend the dollars... short-term pain (in the wallet) for long-term gain (hassle-free DX!).

Chris Martin, Ormeau, Gold Coast, Aus, "Hello Boys, very good yank conditions tonight 4/10. Exceptional sunset skip enhancement 0815 - 0845z. X Band boiling. Stuff 1630 thru to 1700 (1620 blocked here). Who carries ESPN Radio on 1570 ?? 1570 like a graveyard channel tonight. How many ESPN stations on 1570 ? Could it possibly be 'Holmen IN'. I don't see many with a sports format on 1570. Good audio on 1400 but could not log due to graveyard rumble. WTDY 1670 still booming in as I send this e-mail. 1200z. conditions on the up ?? Cheers" *1570 is very interesting!*

Bill Woller, Opunake, "Nothing out and nothing in for the last couple of months. Well the only thing in has been static. I had a ring from Peter Chambers a few nights ago saying the X band was open, but we were in the middle of a thunderstorm. I did connect up the aerial

just long enough to hear there was something on each channel but continuous bursts of static, nonstop. I read with interest the 10 most verified frequencies in the Times. Mine is not actually 1570, it's been my favourite because it was the first frequency I wrote and verified a station on. Have also got 12 each on 1410 and 1380 I have been talking to the farmer at the back of our section. Can run some more wire out about 350 feet. It could make a bit of a difference. Well hope to have something to report for next month. Good DX" *We'll look forward to a trail with the longer aerial...*

Cliff Couch, Paraparaumu, has been experimenting with a new aerial which is providing good results from Aussie and Cliff sends a trail. Guess we'll see some Yanks in your loggings soon!

Peter Chambers, Esk valley, Napier "A month of far from stunning MW propagation. Some life from West & Central USA. Hardly any Latin openings. Powerline noise starting to fire up at times with a dry period of weather. All listening from home QTH with my wheels off the road for repairs. On Tuesday morning 26th September, an over-night southeast storm caused total power loss to Hawkes Bay for a few hours. I fired up the Drake on 12 volts and had a tune around. All local QRM was totally absent. Faint electric fence ticks still audible either from outside Hawkes Bay area or from battery-powered units. Aussie X-band stations remained audible much later after sunrise than normal. With local QRM usually S4 — S9, these signals were still copiable down to S-3 with the QRM absent. On the local Hawkes Bay AM scene, only 2 out of 7 stations remained on air. National Radio on 630 and Newstalk ZB 1278 were the stations operating. Joe 1530 oldies station was off air completely and the last station to return to air around lunch-time. Kidnappers Radio 1431 had carrier and no audio. Radio Sport 1125 had carrier only with much reduced signal level, back on air by 1930z. Southern Star 909 off air totally, Ngati Kahungunu 765 had carrier with crackling noises and brief spurts of audio. The GPS navigation beacon on 1817 was totally off air also. I thought that all AM broadcast stations had back-up generator power and alternative audio feeds to cope with power & landline failures. Obviously not so here in the Hawkes Bay. Would any stations be left operating after an earthquake? Powerline QRM was returning to the radio well before the local 11kV supply came back into service proving that some of my power QRM is from lines further afield." *Ah well, let's hope that next storm causes similar problems for your locals only in the early evening and when you're aware of it!*

Nev McKenty, Tamatea, Napier "Greetings from Sunny Hawkes Bay (huh? You must live in a different Hawkes Bay to Peter!-ed) Couple of late frosts plus light snow coating in the hills and a splash of rain over the last week. Hope that's the end of winter. The magic of broadcast DX has arrived at the QTH. Peter Chambers has put a lot of time and effort into helping me out. We now have the TV under control. Also Pete has made up a vertical antenna which works only on low bands. This is temporary at this stage and we are looking at a fixture. From the marginal reception that I the year holds." *Sounds like it'll be an interesting time DX-wise for you, thanks to "The Aerial Guy"*

Paul Ormandy, Oamaru, "Must admit to taking it easy recently... the calm before the storm with 5 nights at Waianakarua from October 18th... Laurie Boyer and Peter Chambers will be joining me. Just one QSL in, XENU 1550 via e-mail, and no logs..."

Sutton's Top Ten

Rank	Freq	QSLs	Station	Location	Power
1	1550	25	WKFE	Yauco PR	250w
2	1440	22	WGEM	Quincy IL	1000w
3	1600	21	WKWF	Key West FL	500w
4	1570	17	KUJL	Golden Valley MN	500w
5	1590	16	KRAD	East Grand Forks MN	1000w
6	1490	15	WHSL	Wilmington SC	250w
7	1450	13	WVON	Cicero IL	250w
8	1320	13	WILS	Lansing MI	5000w
9	1380	13	KWK	St Louis MO	5000w
10	1580	12	WLJ	Shelbyville TN	1000w

Bill Woller's Top 10

1	1600	21	WKWF	Key West FL	500w
2	1580	20	WPKY	Princeton KY	250w
3	1550	20	WKFE	Yauco PR	250w
4	1470	17	WSAN	Allentown PA	5000w
5	1480	16	WTHR	Panama City FL	500w
6	1420	14	WCOJ	Coatsville PA	5000w
7	1570	14	CKLM	Montreal PQ	5000w
8	1490	13	CKCR	Kitchener ON	250w
9	1390	13	WWOD	Lynchburg VA	1000w
10	1450	12	AFTN	Nam Phong, Thailand	25w

Merv Branks Trophy

Sutton Burtenshaw 11, David Ricquish 1, Arthur de Maine 1 more than me!

Best of the Month

Paul Ormandy with XENU "La Rancherita de Nuevo Laredo", Mexico 1550kHz 5kW

MW Trail —

Knights of the Nights: CC — Cliff Couch, Paraparaumu — Sangean ATS803A & random wire.

JW — John Watson, Waipu Cove, Sony ICF-6800W & sloped longwire. PVP — Phil Van de

Paverd — Icom R70 & longwire. NM — Nev McKenty, Tamatea — NRD545 and Chambers

Radio plays Russian station. Time played by Drake 4 and 5B aerial. 180 1058 RUSSIA

(Komsomolok). PVP 590 0905 HAWAII KSSK Honolulu, Very good. PVP 612 0900

AUSTRALIA 4QR Brisbane, id & ABC nx. Some QRM pres 3XG. Fair. CC

680 0825 USA KNBR San Francisco, Very good. PV

1005 KNBR, 90% copy, light splash "log on to KNBR.com" "You're listening to ESPN radio on KNBR". PC

684 0906 AUSTRALIA 2KP Kempsey, ABC wx forecast. Almost clear. CC

684 1755 CHINA? Chinese talk briefly dominant o/Aussie. PC

690 0845 CANADA CBU Vancouver BC, classical mx, fr-gd. NM/PC *(your unid sports is most likely next item—ed)*

690 1000 MEXICO XETRA Tijuana BC, exc copy "Sports 6-90" id and ESPN radio promo. PC
 690 1015 HAWAII KQMQ Honolulu, mx, ads for road safety, id 1022 "Radio Disney is on the air". NM
 702 1812 AUSTRALIA 2BL Sydney, OM tlkg about Olympic crowds. QRM from Nzer. Fair. CC
 760 0826 KGU Honolulu ,Sports program. PVP
 870 0730 HAWAII KAIM Honolulu, heard till 1010. JW/PVP/NM
 870 0705 USA WWL New Orleans LA, id after nx, into C&W mx, only fair signal, Hawaiian absent. PC
 936 1000 AUSTRALIA 7ZR Hobart, id & ABC nx, QRN on & off. Fair. CC
 1050 1024 USA KTCT San Mateo CA, sports, readable for short periods. NM
 1070 0820 USA KNX Los Angeles CA, id 0825, nx, hrd w/"lone Ranger" serial the following night. NM/PC
 1107 1000 AUSTRALIA 2EA Sydney, announced as "SBS radio broadcasting to Aboriginees" then YL with news. Fair-good. CC
 1110 0530 USA KRLA Pasadena CA, KFAB (alternating). JW/PVP1110 0951 KRLA id "KRLA Talk 11-10 traffic report" "currently 63 deg downtown" wx & temps. Exc sig, totally dominant. PC1110 0730. USA KFAB Omaha NE, with the "John David Morton Show" JW/PVP1130 0940 CANADA CKWX Vancouver BC (excellent) (news and talk. JW/PVP
 1170 1055 AUSTRALIA 2CH Sydney, ads, nx, poor. NM
 1143 0954 AUSTRALIA 2HD Newcastle, songs & id under Nzer 1YW. Mostly clear. Weak-fair. CC
 1220 0548 MEXICO XEB Mexico City, gd w/id then Mexican mx. PC
 1269 0931 AUSTRALIA 2SM Sydney, id & talkback, mostly clear. Weak-fair. CC
 1380 0700 CHILE CB138 R Corporacion, Santiago, fair. Id on the hour and into relig prog. Only hrd Sept 12th. NM/PC
 1380 0950 UNID K- featuring R&B, id 0958, ad for 'The Bay Area' and obituary for musicians. NM
 1380 0855 UNID K- jazz piano up to 0900 then bands featured. Possible KTKZ Sacramento?. NM
 1323 0920 AUSTRALIA 5AD Adelaide, id & commercial, QRN troublesome. Weak-fair. CC
 1420 0730 USA KCCB // with KPNW 1120 kHz both very good with same prgm. JW/PVP
 1420 0733 HAWAII KCCN Honolulu, Sports commentary, good. PVP
 1460 0845 UNID KLT- ad, C&W mx, letters 'KLT' herad. Very weak. KULA (KULA has new call-ed) has been heard and id'd since the above. NM (think this is KLTX Salinas-ed)
 1467 1754 AUSTRALIA 3MA Mildura, commercials & time. Almost clear. Fair. CC
 1500 0833 UNID KUMU? Honolulu, Hawaii, ID as AM 1500. PVP
 1500 0945 HAWAII KUMU id 1000, oldies mx. NM
 1510 0807 USA KGA Spokane WA, phone-ins on legal matters, id 0905. NM
 1566 1902 AUSTRALIA 3NE Wangaratta, Australian nx. Noisy & some QRM, almost clear at 0846. Fr. CC
 1570 1130 MEXICO XERF Cd Acuña, varied prog, spoken & mx. Heard over several nights, fair-good. NM1580 0720 USA KMIK Tempe AZ Radio Disney, gd simulcast on 690 from Hawaii. URL as www.radiodisney.com. PVP/NM1620 1855 AUSTRALIA 2AM Sydney, mx & id. Some QRM. Fr. CC/NM (Note: Station now being run by 2KY and has changed calls to 2KM... all sports-ed)1620 0655 USA WTAW College Station TX, exc copy "Coast to Coast AM - West

Time Order summary of Ken's Under 9MHz & Andy's Over 9MHz BandWatch columns. Please remember to include the date and signal strength with all your loggings, thanks. ***NEW*** -> Signal strengths: e = Excellent; g = Good; f = Fair; p = Poor.

Time (UTC)	Frequencies (kHz)	Station Name	Country	Station Log	Date	DXer Name			
0000	17580g, 21740	R Australia	AUSTRALIA				16/9	YGM	
0155 - 0208	25950f	Auxiliary station	KTM556				USA?	25/9	KVB
0200 - 0300	11700g	R Bulgaria	BULGARIA				-	BW	
0200	9755, 11715g, 15170	RCI	CANADA				-	BW	
0230	11705, 11725	VOA	USA				-	BW	
0230	11705p, 11725	VOA	USA				-	BW	
0300	17585f	VOA	USA	6/9	RP				
0330	11600f	Radio Prague	CZECH REPUBLIC				-	BW	
0345 - 0400	11885g	FEBA	SEYCHELLES		15/9	IC			
0347	11600f	Radio Prague	CZECH REPUBLIC				7/9	CC	
0400	9730e	CRI	CHINA	11/9	RP				
0400	17535e		Kol Israel		ISRAEL 6/9	IC			
0415 - 0429	9905e	SRI	SWITZERLAND		19/9	RP			
0430	10320(USB)p	AFRTS	USA	6/9	RP				
0453	5070g	WWCR	USA	25/9	CC				
0457	6165p, 9590f	R Netherlands	NETHERLANDS		27/9	CC			
0457 - 0500	21830f	BBCWS	UK		23/9	CC			
0500	9470	Croatian Radio	CROATIA				15/9	Waipu	
0505	5825g	WEWN	USA	1/9	CC				
0505	7490g	WJCR	USA	23/9	CC				
0505	9840e	WSHB	USA	27/9	CC				
0513	15110e	R Kuwait	KUWAIT		27/9	CC			
0514	7230g, 11590g	R Japan	JAPAN		23/9	CC			
0515	9755f, 5995f, 11830e	RCI	CANADA				25/9	CC	
0515 - 0530	9580p	Philippines Broadcasting	PHILIPPINES				29/9	LMM	
0517	5825f	WWCR	USA	26/9	CC				
0517	9820f	R Habana	CUBA	23/9	CC				
0518	6110g	R Japan	JAPAN	27/9	CC				
0519	7250f	Vatican Radio	VATICAN		3/9	CC			
0524 - 0600	6458.5	AFRTS	USA	16/9	PVP/JW				
0526	13755f	RCI	CANADA	5/9	CC				
0526	15115e	HCJB	ECUADOR	3/9	CC				
0526 - 0600	10320(USB)	AFRTS	USA	15/9	Waipu				
0530 - 0600	11565g	KWHR	HAWAII-				BW		
0535	7255g	V of Nigeria	NIGERIA		3/9	CC			
0559 - 0600	15205g	VOA	USA	15/9	YGM				
0600 - 0630	17600g	D/Welle	GERMANY				5/9	IC	
0603 - 0609	9830g	Croatia HRT	CROATIA				29/9	LMM	
0635	21570g	NHK/R Japan	JAPAN	5/9	IC				
0640	5935f	University N/W	USA	28/8	KAB				
0649	5070f	WWCR	USA	2/9	KAB				
0650	7160p	BBC WS	UK	3/9	KAB				
0650	7195g	VOA	USA	3/9	KAB				

NEW ZEALAND RADIO DX LEAGUE (Inc.)

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The NZRDXL is administered from Auckland by:
NZRDXL AdCom, PO Box 3011, Auckland

Patron - Jack Fox

president@radiodx.com - Barry Williams

National Secretary - Evan Murray (Tel. 09 483 9543)

vice.president@radiodx.com - Bryan Clark

treasurer@radiodx.com - Phil van de Paverd

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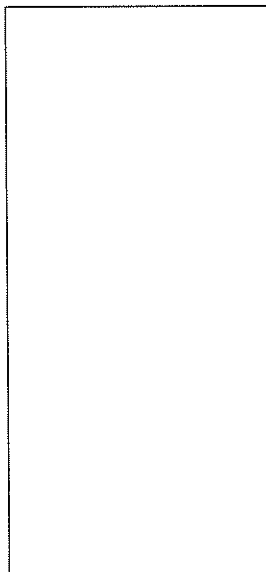
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