



New Zealand DX Times

Monthly journal of the
New Zealand Radio DX League (est. 1948)
July 2000 - Volume 52 Number 9
<http://radiodx.com>



talkback@radiodx.com with David Ricquish, Wellington

Paul Aronsen, Invercargill sends another copy of the Southland DX Digest, with local branch meeting news, African SW reception at Riverton (home of much early DXing in Southland) over Queens Birthday, Vanuatu 4960 SW, checking out the English language broadcast list in the May NZDXT, and an update on the Tiwai listening post. To get regular email copies of this 64 year old DX newsletter, contact Paul at pauldx@es.co.nz

'Dem ha di bes music, music we na da a Salone' is local lingo for 'because it's the best music in Sierra Leone' and it's coming your way soon on SW. Radio UNAMSIL 103 FM in Freetown, Sierra Leone began on May 22 and the signal reaches Conakry, Guinea. Another FM transmitter opens soon in Magburaka for even more West African coverage. Soon, the signal will be fed into local SW transmitters for global reach. For the full story about this UN 'Peace Radio' in Sierra Leone, visit www.mediachannel.org and read 'A Weapon for Peace' by GM Sheila Patrick Dallas. In the meantime, check SW frequencies for this new one.

Chicago's WMAQ 670 AM disappears soon, with the frequency taken over by WSCR (ex-1160) and the call being retired. We Must Ask Questions began as a newspaper owned station, and has been frequently heard in the South Pacific. (DX Listening Digest). Other Chicago slogans include World's Largest Store (890 AM) and World's Greatest Newspaper (720 AM). They had some imagination in those early days!

Totally lacking in imagination are the owners of a Pittsburgh PA building. It was the site of Westinghouse engineer Frank Conrad's experimental station KDKA (still on 1020 AM). The first commercial radio station in the USA began in 1922, but the building is to be torn down because no-one in the radio industry is willing to contribute to preserving the site. (National Radio).

Nev McKinty, Napier writes: Like Paul Aronsen, I've a Sony 7600 and without the use of the ANLP1 antenna, it's an average SW portable. With the active antenna, it's in a class of its own! If working below 3850 SW, add a minimum 12 feet of hook up wire and an alligator clip to the inbuilt whip. I've heard plenty of low power stations including Papuan New Guineans, and the odd AM station like KXOL. Thanks also to Evan Murray for all the info I've received. Anyone with Ute interests should get in contact with Evan! And, thanks for Talkback, it's always of interest.

Pacific coups have been bad news for several radio stations. In the Solomon Islands, the SIBC has cut broadcasting hours, and sent most staff home. Says GM Johnson Honimae 'anything like this is very bad for the media. The government as a major client, our advertis-

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ers who are next, and the user departments who come to produce their programs, and thereby pay us, are no longer working. This is really affecting our sales'.

PAOA FM in Honiara broadcasts only emergency messages, has cut pay by 20%, sent many staff home, and says the future of the private station is bleak. The local newspaper has cut its size by 50% as advertising almost completely disappears. (PINA, PIRReport www.pidp.ewc.hawaii.edu). Check SIBC on 5020 SW irregularly now.

Ralph Sutton, Wellington says National Public Radio in the US recently broadcast a mini-documentary on Numbers Stations which can be found at www.npr.org (enter 'number stations' in select topic box, on page called 'All Things Considered' fast forward the file to 20:30). The item runs for 12.5 minutes with producer David Goren exploring the history of the stations, talking with SWLers and espionage experts. Sound clips include CIA, Russia and Europe. In 2000, most stations are in Cuba, China and Taiwan.

More numbers from Hawaii, where KCCN-FM remains the top rated radio station even though its lead has been reduced by new KDNN-FM. Why the sudden interest?

Because KCCN-FM has a Hawaiian music format, and KDNN-FM (ex KKLX) has a similar format called 'Island Rhythms' which is pushing its surge in popularity. KKLX was Classic Rock. And 'Island Rhythms' could be a totally new format, as it includes Hawaiian. Hawaiian music is a blend of Japanese and Hawaiian - of course! Betcha Alan Roycroft would ask for cash up front if they were leasing one of his transmitters in the 1980's! (www.enehawaii.com reporting Honolulu Advertiser newspaper).

Jack Fox, Mosgiel picks up on the Pacific Radio Heritage Collection (c) theme: In Fiji, AWA had ZJV on 920 with 500 watts and VPD2 with 400 watts on 9535. My recollection was that ZJV was located in the Cable & Wireless Limited office in Suva, and VPD2 was at the SW communications base out of town. I had the pleasure of visiting ZJV and doing a broadcast.

When Japan entered the war in 1941 we saw the arrival of US forces in the Pacific. You'll know about 1ZM being taken over. They also established AEF Noumea on 975 with 1000 watts. I believe this was the first of what was subsequently a number of American stations established as the campaign progressed up the islands. By 1944, it was calling itself AFRS Noumea and a member of the Mosquito Network. No doubt the FCC had some say later on as each station was allocated a W call. What Noumea's was I can't recall, but I had the pleasure of visiting WVUR Santos on 1045 with 1000 watts. Espiritu Santo was the main American base in the New Hebrides (Vanuatu) and I verified the station within an hour'.

The Pacific Radio Heritage Collection (c) now hosts articles on WXLE Canton Island, ZK2ZN Sunshine Radio Niue, A Samoan Radio Journey (2AP/WVUV) and King KONG Battles KUAL on Kaua'i with more appearing regularly.

With help from Jack Fox and others (including the publisher of a book on US military broadcasting we'll review shortly, and FEN Tokyo) several articles on the Mosquito Network, and the Jungle Network are currently being researched. Contact me if you have interesting material about Pacific radio you'd like to see included in the collection. (Details in June DXT).

Visit Paul Ormandy's South Pacific DX Resource site for these well illustrated articles at www.radiodx.com/spdxr

Bryan Clark, Auckland reminds us that National Radio begins its move to FM next month, with 1YA 756 simulcasting on 101.4, and 1YT 1494 moving to 101.5/107.9 as major technological changes continue. National Radio is now carried on SKY Digital also, and Telstra/Saturn are planning a range of cable radio services.

Major changes in NZ radio include government reviews of both technological platforms, and content, including the almost forgotten Youth Radio Network (expect to see this on the expanded 100-108 FM band). Also moving to FM will be existing AM community access stations (Auckland's 810 AM is likely to be the first).

In the meantime, continue to listen to Paul Ormandy's South Pacific DX Report with David Miller in Dunedin (every second Sunday at 8:30pm on the NUU Country program, Hills AM 1575); David Ricquish in Wellington (12:20pm every second Saturday on 2YB Access 783 AM) and with David Norrie in Auckland (every second Friday at 1:05pm on 1XU Access 810 AM).

This month, my station of the month is Groove 88.4 FM, one of those local FM stations which are sprouting up all over the country. This one began broadcasting a few weeks ago from Wellington's Island Bay, and covers several southern suburbs. Format is Lounge/Jazz and they plan to cover all of Wellington shortly. A great FM DX catch, this kind of low powered niche radio is increasingly common throughout NZ. Send details of such new stations to the DXT, as your local is always someone else's DX! As usual, enjoy! Ciao.

editorial@radiodx.com with Andy Gardner, Mexico

Another nice short column from me (and thanks to David Ricquish for stepping up to the plate and providing something of substance to make up for it). The turnaround time this month has vastly improved compared to last month's disaster. Hopeful things will be back to normal from next month. Still having problems with some of the material arriving here being the wrong format and requiring extra work to correct, but we're getting it all sorted out. See you next month, from here in Mexico, where the temperature in my office rarely gets out of the 24 to 2 degree range. Rather comfortable, really.

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

Welcome to this month's column. All times in UTC, frequencies in kiloHertz. Sources: Cumbre DX; BCDX — Worldwide DX Club Top News; DXLD — DX Listening Digest, and others as mentioned.

ANGOLA: The Luanda-based Catholic FM station, Radio Ecclesia, is now on shortwave via Radio Netherlands transmitters in Holland and Madagascar. According to RN, the SW relays started on 14 July with this schedule: 0500-0600 15195 200kw via Madagascar, and 1900-2000 15175 500kw via Flevo. The station has been subject to official harassment because of its independent editorial policies and uncensored coverage of political events in Angola. The station homepage can be found at <http://ecclesia.snet.co.ao>. (Francis/RN)

Australia: Talks have started between the ABC and British based group, Christian Voice, on buying time for Radio Australia on the Cox Peninsula transmitters near Darwin. The Federal Government has sold the former R. Australia transmitters to Christian Voice Australia.

The group's Australian director, Mike Edmiston, says talks started this week in London between the chair of Christian Voice and the chair of the ABC board. Mr Edmiston says talks are also planned next week with the head of Radio Australia in Melbourne. "We regard Radio Australia as a quality broadcaster," he said. "I understand that there are a few issues to be resolved for Radio Australia and between our organisations, but we're approaching

that with a very positive view I guess." (ABC Online/Francis)

Austria: ORF Radio Austria International is facing major cutbacks to its operations including cuts in languages and air time. VOA's Communications World on 1 July reported a 50 per cent cut to broadcasts, and that the Moosbrunn site will be leased to other broadcasters. English programming will be co-produced with the domestic Fm-4 network. (Various)

China: Members of the banned Chinese spiritual group, Falungong have set up their own station, on 9915 at 1400, called World Faludafa Radio. Site unknown — suspected Taiwan, subject to jamming since commencing on 1 July (various)

Finland: A new "private" station made its debut on SW in early June — Scandinavian Weekend Radio on 25 mb outlets 11690 and 11720. Station used only 50 watts with a horizontal half-wave dipole. More info can be found at their web site <http://www.swradio.net>. Station was reported throughout northern Europe with music and Finnish announcements. Plans to broadcast irregularly on weekends (various)

Germany: There is now a variety of broadcasts from Juelich by different Ethiopian and Eritrean opposition groups. Details seem to change frequently, but Hans Johnson of Cumbre compiled this helpful list: 6045 1300-1400 Voice of Democratic Eritrea; 9855 Sat 0100-0200 Rainbow Radio; Sun 0100-0200 Voice of Democratic Eritrea [unconfirmed]; 15105 Wed 1600-1700 Voice of Democratic Path of Ethiopian Unity; 15365 Mon 1600-1700 Voice of Democratic Eritrea, Thu 1600-1700 Democratic Eritrean Revival, Sun 1600-1700 Democratic Eritrean Revival; 15715 Sun 1700-1800 Voice of Oromo Liberation, Tue 1630-1700 Radio Huriyo, Wed 1830-1930 Voice of Democratic Path of Ethiopian Unity, Thu 1700-1800 Voice of Oromo Liberation, Fri 1630-1700 Radio Huriyo, Fri 1700-1800 Voice of Oromo Liberation; 21550 Sun 0700-0800, 0800-0900 Voice of Democratic Path of Ethiopian Unity. (Johnson, Cumbre) Also on the air from Juelich during early July was Radio Fritz, a special broadcast for the Berlin "Love Parade" from the public broadcaster ORB. (Francis)

Italy: On 4 July 2000, the city council of Argenta in northern Italy, granted to Adventist World Radio (AWR) a "long-awaited, long-prayed-for" permit to build a new shortwave facility to reach the Middle East, North, East and West Africa and large areas of the Asian continent, according to AWR president, Dr Don Jacobsen. Dr Jacobsen said that, after a final technical review by AWR engineers next month, bids for construction would be let, and construction could begin soon after. "In cooperation with the Adventist work in the six major areas of the world that will be affected," says Jacobsen, "this new station will enable us to add some 15 new languages to the nearly 60 that AWR is already using. It will give us complete coverage of the '10-40 Window' in Africa, Middle East and Asia, in the languages of the people who live there." The Italian government passed a law in 1995 specifically allowing for the establishment of shortwave stations by nonprofit organizations and under this law, they granted AWR a shortwave license in 1996. In September 1997, a zoning variance allowed for the construction of the station in a formerly agricultural area. Groundbreaking is slated for August 2000, said Jacobsen. (AWR news release via Paul Ormandy)

Lithuania: All SW transmissions of R Vilnius from Sitkunai have been temporarily suspended since a couple of weeks, until new funds will be made available. R Vilnius in English continues via Lietuvos Radijas 1 (on FM and Sitkunai MW 666), as well as via Internet: <http://www.lrv.lt/lr1.ram> The broadcasts via DTK Juelich to North America have remained unchanged. (BCDX)

New Zealand: Radio New Zealand International has signed a one year contract to re-broadcast selected sports commentaries from Radio Sport. As part of a one year contract

allows for a more targeted approach to coverage, RNZI will be broadcasting rugby (All Blacks matches, selected Super 12 (two or three weekend matches) and selected NPC matches), one day cricket internationals and Sports World, Radio Sport's Sunday morning sports program. From time to time, coverage will also feature netball internationals and some key Rugby League matches. Coverage was due to start July 15 with the Bledisloe Cup rugby match in Sydney. (RNZI)

Papua New Guinea: 2410 Radio Enga 1135-1146 45333 in English. Music program. Splendid signal! (Iwata via Japan Premium / Cumbre) 2410 R Enga 1130-1235 Male annr in Pidgin, Hill music. ID ToH, into pop mx pgm. Still going strong at sunrise here in PNG (1240) (Nelson, Cumbre)

Peru: 6672.9 Radio Andina July 1038-1204 New Peruvian station noted today July 8 at the 1038 with vernacular music, 1100 "...esta usted escuchando Radio Andina que transmite desde Huancabamba en los 6672 kilovatios(!) de la onda corta, banda de 49 metros..." After the pgm: Pueblo Despierta. "...mis amigos tenga ustedes muy buenos dias a partir de este momento para presentar su programa Pueblo Despierta, un programa que llega a usted con el gentil auspicio de Radio Andina de Huancabamba que en esta oportunidad esta transmitiendo en la onda corta en lo 6672 kilovatios..." Ments to Manuel Campos Ojeda as Director and QTH in Calle Huascar No. 201 en Huancabamaba, Piura, Per?. Phone 4731-4 This station maybe formed with the Radio Super Sensacion's equipments, very good signal. (Rodriguez, via HCDX / Cumbre) 6673.0 R. Andina *1014 Heard signing on with National Anthem & ID July 10, next night already on by 1004. Music & long segments of advertisements (Jary, Cumbre)

Russia: Current schedule for relays via Vladivostok: 5940 1000-1200 VOR, 5940 1430-1455 DVB, 5945 1245-1345 DVB, 7305 1000-1400 VOR, 7330 1000-1200 VOR, 7375 1200-1400 VOR, 11640 1200-1400 VOR, 11975 0000-0100 DW, 11990 1000-1100 BBC, 12005 2200-2300 RFI, 15560 1200-1400 VOR, 15595 2300-0000 RFI, 17660 0100-0500 VOR; via Irkutsk: 7150 2200-2300 VOA, 7305 2200-2245 VAT, 9400 1130-1600 TWR, 9655 1030-1500 RR, 9805 1900-2200 RR, 9875 0900-0945 DW, 9875 1000-1100 VOR, 9900 1000-1400 VOR, 9940 1300-1400 HBN, 12000 1200-1400 VOR, 12025 0930-1030 RFI, 12025 1100-1300 RFI, 12025 2300-0100 RFI, 12075 2200-2300 RCI, 13710 0925-1125 RNW, 13720 1000-1400 DW, 15475 2230-1000 RR, 15490 0600-0700 VOR, 15580 0030-0200 TWR, 15605 2300-2350 DW, 17570 2300-2350 DW, 21790 0500-0900 VOR; Novosibirsk 7305 1330-1700 VOR. 9490 1130-1200 VOR, 9490 1230-1400 VOR, 11570 0000-0100 IBC, 11795 2200-0000 DW, 11990 1300-1500 VOA, 12025 1330-1700 VOR, 12045 0100-0200 VOR, 12045 2200-2300 RFI, 12055 2300-2345 DW, 12075 1200-1300 RFI, 13640 1300-1350 DW, 13690 2200-0000 DW, 15470 1000-1200 VOR, 15490 1000-1200 VOR, 15525 1230-1330 VOR, 15610 1030-1055 DW, 17665 1000-1200 VOR, 17845 1000-1400 DW. DW — Deutsche Welle, VOR — Voice of Russia, RFI — Radio France Internationale, RR — Radio Rossii, RCI — Radio Canada International, RNW — Radio Netherlands, VOA — Voice of America, HBN — Herald Broadcasting Network, IBC — International Broadcasting Corporation, TWR — Trans World Radio (RUS-DX)

Thailand: On 1 July, Radio Thailand introduced a new service in English for domestic listeners. The only announced frequency is 918 kHz (which formerly carried a Radio Thailand service in Thai for the Bangkok area), but it is also on all three of the station's domestic HF frequencies — 4830, 6070 and 7115 kHz, which also formerly carried domestic networks in Thai. The announced operating times are 2200-1600. I can confirm that sign-off is indeed at 1600.

Programming mostly consists of uninterrupted American & British pop oldies, with a short recorded ID just after the top of the hour by an American-accented male saying 'Radio Thailand, the sound of [or 'sound and'] the soul of Thailand', or 'Radio Thailand, your companion in the Land of Smiles'. However, the station does also relay Radio Thailand news programmes in English, including at 0000-0100, and also carries the external service programme entitled 'Voice of Thailand' with chit-chat and tourism promos at 1300-1330. (Alan Davies, Cumbre)

UK / South Africa: Current African Beacon schedule: 1530-1800 6145 via Meyerton, 1800-2200 9675 via Rampasham, 1800-2200 3230 via Meyerton, 1900-2200 5925 via Meyerton. Beginning July 3rd, we will add morning hours to the schedule: 0430-0630 6115 via Meyerton. The European Beacon commenced operations on July 3, providing service to Western and Central Europe 1600-1800 15445 via Skelton, 1800-2000 15585 via Skelton, 1900-2200 7360 via Krasnodar. We have a new limited edition QSL card that will debut with the launch of the European Beacon. Send us a reception report after July 3 to get yours. (World Beacon)

UK: Schedule for Wales Radio International "Celtic Notes" broadcasts: Europe (via Skelton): Friday 2030-2100 (summer only) 7325, Friday 2130-2200 (winter only) 6010; North America (via Rampisham) Saturday 0200-0230 (summer only) 9795, Saturday 0300-0330 (winter only) 9735; Australia (via Rampisham) Saturday 1230-1300 (summer), 17650 Saturday 1130-1200 (winter) URL: <http://wri.cymru.net>. Address: Wales Radio International, Pros Kairon, Crymych, Pembrokeshire SA41 3QE, United Kingdom (Glottzbach, Cumbre)

Vietnam: Yet more changes to report to the national domestic services of Voice of Vietnam, first noted 13 July: 1st Programme: 5975 (ex-5970), 7210, 9530 (ex-7115), 2nd Programme: 5925, 6020, and local daytime to 1000 also on 9875 (ex-7285) (Alan Davies, Cumbre)

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

I am a week early with this mailbag as I am already committed to air travel and don't wish to lose my airfare. Any mailbag reports coming in while I am away will be held over until the next issue. Sorry about this but I had planned my visit to my Daughter in the North Island to work in with School holidays and the original date for the Times worked out well.

Every time the Times appears late there is a notable decrease in Members notes. We have to get back to a regular schedule or face the consequences which may be a lot more serious than Members think.

First up Lindsay Robinson Invercargill with Radio Blue Star 6305 and Radio Sundown 3205 plus 11 reports out. Where is Blue Star located Lindsay ?

Next is Paul Aronsen Wallacetown Who has 32 reports out and veries in from Israel 7470, Radio Ukraine 5905, TWR 6145, Greece 7475, 9420,15630, HCJB 21455, Russia 7125, Radio Maryja 7400, Malawi 3380, Austria 5945, Radio Tashkent 5035, Radio Romania 5955, Turkey 21540. Keep it up Paul.

Paul Peacock Blenheim Has just one in - Huayi Broadcasting Corporation China 11590.

Ian Cattermole Blenheim has a good list in with Voice of Armenia 15270, Radio Spain 9840, RA via Taiwan 11550, CHBC 11590, 6185, Taipei via WYFR 15600, Israel 13710, Radio Santec 9435, RCI Sackville 17695, WYFR 6300, 15120, 7520, RDW Sines 7225, Radio Vaticana 9770, HCJB 15160, CRI 15110, Radio Romania International 11775. Hope you are well on the way to recovery.

Laurie Boyer Invercargill Has a few in from Iran 13745, 11565, Amateur Radio Mirror 21530, Swiss Radio International 15545, Bulgaria 9400, 11700.

Best of Month under 9 MHz Radio Malawi 3380 50kw Paul Aronsen.

Best of Month over 9 MHz Amateur Radio Mirror 21530 250kw South Africa



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

2310	1842	AUSTRALIA, ABC Territory Radio good in EE with talk on aboriginal rights, ID 1934 // 2325 fair — KVB 7/6
3250.7	1025	PERU, R Comas TV with music, T/Cs ID and ads, poor — LM 10/6
3260	0758	PNG, R Madang fair in Tok Pisin with bagpipes and ID — BML 16/6
3270	2130	NAMIBIA, NBC Windhoek with news in EE, good but // 3290 poor — LM 10/6
3275	1106	PNG, R Southern Highlands?? Fair in Tok Pisin with pop, ethnic music, Mendi mentioned at 1147 — KVB 20/6
3279.6	1028	ECUADOR, L V del Napo fair in Spanish with relig prgm — LM 9/6
3300	0409	GUATEMALA, TGNA R Cultural with EE gospel prgm, good with full ID and callsign at 0428, then into Spanish — BC 24/6
	1000	GUATEMALA, R Cultural good in Spanish with ID and relig prgm — LM 9/6
	1004	GUATEMALA, R Cultural fair in Spanish with latin music, ID 1015 — KVB 28/6#
3326	2100	NIGERIA, R Nigeria Lagos fair with ID as R Nigeria One, then EE news - LM 11/6
3340	1123	PERU, R Altura, ID amidst frenetic rapid tik, fr a good night for Latins - DN 1/7
3355	1206	PNG, R Simbu s/off with natl anthem after having modulation probs - DN 1/7
3366	2000	GHANA, GBC with EE news and ID, fair with // 4915 good — LM 9/6
3380	1830	MALAWI, MBC Limbe gd EE, ID and comment on hospital research - LM 9/6
3385	1845	PNG R East New Britain fair in EE with pops and ID at 1847. Also announcement "98 FM, 103 FM V of the People in FM stereo" — KVB 25/6
	1924	PNG, R East New Britain v good in Tok Pisin ads in EE — BML 7/6
3935	1926	NZ, ZLXA fair with news of the Solomon IS — KAB 14/6
3975	1745	HUNGARY, R Budapest good with classical music and ID in EE — TTS 12/6
4420.6	1056	PERU, R Bambaamarca s/on with announcements 1108 relig prgm after tent ID at 1100, v poor level — DN 2/6
4747.21045		PERU, R Huanta 2000 with lively huaynos fair with ID in Spanish — LM 9/6
4760		INDIA, AIR unid // 4800 with EE news on train crashes in Umbalah — DN 1/7
4760	2015	LIBERIA, ELWA weak with back to the Bible prgm in ee, no ID heard — LM 9/6
4775	1039	PERU, R Tarma with ID, T/C, ads, fair with RTTY QRM — LM 10/6
4799.9	1120	GUATEMALA, R Buenas Nuevas good with relig prgm in SS, ID at 1129 - LM 9/6
4801.51058		ECUADOR, R Oriental variable freq, ID male voice and pipe music, news 1100

and soccer, poor moved off freq 1109 then settled on 4801.5 — DN 30/6

4810 1910 RUSSIA, R Tikhig Okean poor in Russian with ID at 1910 then RR mx - KAB 19/6
1955 ARMENIA, V of Armenia poor in anthem and s/on in EE with ID — KVB 26/6

4815 1022 BRAZIL, R Diff Londrina fair in Portuguese with relig prgm, ID 1028 — KVB 28/6

4819.21112 HONDURAS, L V Evangelica with ID and relig prgm in Spanish — LM 9/6

4832.3 0930 COSTA RICA, R Reloj San Jose, ID , T/Cs. Mentioned Santa Maria, pr - LM 9/6

4835 1100 GUATEMALA, R Tezultan good with ID and relig announcements - LM 12/6

4845 1130 GUATEMALA, R Kechi Alta Verapaz with mention of Guatemala and marimba style music, fair over RTM and R Fides — LM 11/6

4855.5 1010 PERU, R La Hora lds and T/Cs ads and music, fair — LM 8/6

4875 1035 BOLIVIA, R La Cruz del Sur fair in vernac with sermon and music, ID in Spanish 1056 — KVB 28/6
1057 BOLIVIA, R Cruz del Sur with relig prgm in Spanish, ID at 1100 , gd - LM 9/6

4890 0438 GABON, R France Intl fair in French // 5925 from France better — CC 27/6
1012 PNG, Port Moresby in EE with request prgm after ID, good music — KAB 3/6

4904.8 1120 PERU, R La Oroya T/C, ID, freq (4800 & 101FM) mx & comment, SS fr - LM 10/6

4914.7 0905 PERU, R Cora del Peru good in Spanish with ID — LM 9/6

4915 0448 PERU, R Cora fair in Spanish with Latin mx, IDs 0450, 0453 then off - CC 27/6
1014 PERU, R Cora fair in Spanish with music after ID at 1014 — KAB 4/6

4925 1020 INDONESIA, RRI Jambi?? Pr, Indonesian with music at 1033 after ID - KAB 3/6

4950 0855 ECUADOR, R Bahai with campo music 0903 canned ID , fair — LM 9/6

4950 0941 ECUADOR, R Baha'1 fair in vernac with Andean mx, ID 0955/1004 - KVB 13/6

4955 1010 PERU, R Cultural in Spanish with relig prgm — LM 10/6

4960 0815 VANUATU, R Vanuatu poor with strong QRM, better USB with live island music, ID 0829. Also at 1924 — KAB 3/6

4965 1804 ZAMBIA, R Christian Voice fair in EE with music and ID at 1815, flattened by R Vanuatu s/on at 1844 — KVB 6/6

4965 1808 ZAMBIA, Christian Voice with sports news in EE followed by gospel music. At 1813 station promo. — BC 24/6

4975 0730 PERU, R del Pacifico good in Spanish with ID and relig prgm — LM 10/6

4975.9 0404 UGANDA, R Uganda with news in EE, poor over long path — BC 24/6

4992.7 0930 PERU, R Ancash, SS & Quecha, long messages and music — LM 9/6

5009 2030 MALAGASY REP, RTV Antananarivo with afro pops in French and EE usual powerhouse signal . 2102 ID then vernac — LM 10/6

5020 1830 SOLOMON IS, SIBC s/on with drums, hymn, ID and pops until Pidgin nx at 1900. Fades out about 1940. Another EE bulletin 1000, BBC news relay at 1100 - BC 5/6
1927 SOLOMON IS, SIBC music and heavy relig talk — DN 6/6
2040 NIGER, L V du Sahel good with community messages in vernac — LM 9/6

5020.7 1904 NIGER, Niamey with news in French, drumbeats at 1912 followed by "La Voix du Sahel" ID, on USB to avoid Solomon Is — BC 24/6

5030 1200 BHUTAN, BBS Thimphu with fanfare ID and news in EE, 1215 feature on broadcasting in Bhutan, fair — LM 9/6

5035 2045 CENTRAL AFRICAN REP, R diff Centrafricaine strong with greetings and music in French — LM 11/6

5035.2 0435 BRAZIL, R Aparecida fair in Portuguese // 6135 poor — BC 24/6

5050 0926 SOLOMON IS, SIBC with ID after messages then music. Good in EE with mention

of "unrest" — KAB 7/6

5920 1834 SLOVAKIA, R Slovakia Intl good in EE with Slovak news // 6055, 7345 - CC 20/6

5935 0630 USA, University N/W fair in EE with relig prgm — RP 5/6
0658 USA, WWCR with University N/W, music and ID, good — CC 4/6

5985 0445 CONGO REP, RNC (tent) fair in French with Afro music, a 10 minute gap in WYFR transmission at this time — BML 21/6

5985 2300 CONGO, R Congo ID in French good with afro pops — LM 11/6

5995 2102 UK, R Canada Intl good EE with news re AIDS and ID // 7235 stronger - CC 1/7

6005 2200 GERMANY, Deutschland Radio fair in German with ID and news — LM 11/6

6010 0715 MEXICO, R Mil fair with ID and ads in Spanish — LM 10/6

6025 2100 NIGERIA, R Nigeria Enugu with T/C, ID fair, QRM from R Budapest - LM 10/6

6040 0900 BRAZIL, R Clune Paranaense fair in Portuguese with good ID 0939 - BML 27/6
2159 ???, VOA with ID, freq schedule then off, fair in EE — KAB 20/6

6045 0930 PERU, R Santa Rosa with relig prgm in Spanish, 1000 ID , fair — LM 9/6
1925 INDIA, AIR General Service in local language, ID and prgm info at 1928 then close but carrier remained on — BC 24/6
2140 ZIMBABWE, ZBC songs, T/C, ID then off — LM 11/6

6045.5 0847 PERU, R Santa Rosa good in Spanish with lds — BML 27/6

6050 1830 NIGERIA, R Nigeria Ibadan, fair in EE with prgm on Nigerian agriculture, 1900 fanfare on horn ID , QRM from BBC12/6. Also heard on 9/6 in clear at 2100 — LM

6055 1838 RWANDA, R Rwanda with indig vocals, French announcements with frequent mention of Rwanda , mixed or under co-channel R Slovakia Intl in EE — BC 24/6

6060 0900 ARGENTINA, R Nacional fair in Spanish, no ID but Nacional and Argentina heard, not heard regularly here — RP 5/6
0906 ARGENTINA, R Nacional excellent with comment in Spanish — DN 14/6

6070 0155 BELARUS, R Minsk in unid language with singing, ID and station announcements, fair — CC 15/6

6085 2130 GERMANY, Bayerischer Rundfunk, gd, GG, comment ID 2200 — LM 12/6

6090 0606 ANTIGUA, Caribbean Beacon with Dr Gene Scott, good — BC 24/6

6095 2100 GREECE??? VOA fair in EE with News Now — RP 5/6

6105.5 1015 BOLIVIA, R Panamerican on USB in Spanish with ID and music — LM 9/6

6160 0603 CANADA, CKZU Vancouver with CBC news , weather , at 0604 ID for CBC Radio One, poor/fair — BC 24/6

6160 0745 CANADA, CBC Vancouver in EE with classical music, at 0800 mentioned CBC Overnight , fair — LM 10/6

6165 0446 AUSTRIA, ORF good in EE with Mailbag prgm and mx //13730 better - CC 11/6
2215 CHAD, R Nationale N'djamena with afro pops with French greetings, good with ID and s/off at 2300 — LM 10/6

6190 2200 GERMANY, Deutschlandfunk, Berlin ID followed by news 2205 German folk songs poor best on USB — LM 10/6

6249.3 2030 EQ. GUINEA, R Nacional Malabo with political comment in Spanish, no ID, poor in LSB, USB blocked by RTTY — LM 10/6

6797.7 1200 PERU, R Ondas del Rio Mayo with fanfare ID , T/Cs, notices in Spanish, spoilt by ute QRM — LM 10/6

6857 1210 PERU, R San Miguel in SS, variable freq, with T/Cs and greetings — LM 10/6

6956.2 1145 PERU, R L V de Camposinos with frequent IDs in Spanish — LM 10/6

6970 0350 COSTA RICA, RFPI fair in EE on this freq change — IC 12/6
 1040 COSTA RICA, RFPI good in EE with problems of life in the Carribean — DN 2/6
 1222 COSTA RICA, RFPI good with Mailbag prgm in EE — DN 1/7
 7100 1824 ERITREA, VOBME strong with indig vocals then news in Arabic type language, closed abruptly at 1830 — BC 24/6
 7150 0545 ITALY, V of Malta with prgm in Arabic — TTS 30/5
 7165 0600 NAMIBIA, NBC fr opening, 14 min EE pgm, regular but usually weak - BML 12/6
 7175 0329 ERITREA, VOBME Asmara fair, improving with mainly spoken prgm — BC 24/6
 7195 1930 THAILAND, HSK9 fair in EE with news on agricultural research — KAB 14/6
 7205.1 1900 ??? UNID, big carrier but faint fem voice, did not sound like Congo - DN 14/6
 7215 1700 CLANDESTINE, V of People with comment on Zimbabwe election, off at 1730 with ID — DN 24/6
 1700 CLANDESTINE to ZIMBABWE, Radio VOP in EE with ID then reports on election, freq only clear Sat — Sun — BC 24/6
 1900 POLAND, R Polonia s/on with full ID, still going at 1915 blocking cladestine broadcasting to Zimbabwe DN 15/6
 7215.2 1902 ??? UNID better on LSB, looking for new clandestine broadcasting to Zimbabwe — DN 14/6
 7230 2200 SERBIA, R Yugoslavia v good in EE with news — IC 9/6
 7255 0650 NIGERIA, V of Nigeria with EE news, drums at 0700 — LM 11/6
 7270 2245 SPAIN, REE strong in Spanish — IC 15/6
 7290 0506 UK, RCI via Skelton with EE prgm on Canadian actors — PRP 6/6#
 2025 ITALY, RAI poor in Arabic with good ID, at 2025 into Portuguese?? — RP 17/6
 7305 0250 VATICAN, Vatican Radio, gd, EE, story of creation //9605 as good - CC 26/6
 7345 2053 CHINA, CNR Beijing fair in Chinese with music and ID in CC then EE - KVB 26/6
 7410 2058 INDIA, AIR good in EE with vocalist, ID and news at 2100 - CC 1/7
 7475 1840 GREECE, V of Greece, gd, EE with report on shipping conference - TTS 10/6
 7530 1733 SOMALIA, Tent the station here, Saharan type lang, talks, vocalsto s/off 1900, poor on USB. Another Somali R Galcayco tent. hrd 7012 @1656 but v.weak - BC 24/6

CONTRIBUTORS FOR THIS MONTH

BC - Bryan Clark, Warkworth, AOR 7030+, Alpha Delta Sloper : BML - Bill McLeod, Christchurch, NRD 545, 60m wire : CC - Cliff Couch, Paraparaumu, ATS 803A, 60m horizontal loop, 26m wire with Balun: DN - Dave Norrie, Auckland, AOR 7030, T2FD, 25m longwire with balun, 12m vertical : IC - Ian Cattermole, Blenheim, JRC NRD 535, T2Fd and Alpha Delta antennas: KAB - Ken Baird, Christchurch, R5000, ATS 909: 15m wire, Eavesdropper: KVB - Kevin Brayshaw, Levin, FRG7, ICF 2001, HF Loops & 5MHz dipole : LM - Leigh Morris, South Australia, R8A, AOR 7030, longwires, beveridges: PRP - Paul Peacock, Blenheim, Sony 6800, SW Listener : RP - Robert Park, Lower Hutt, R1000, 40ft longwire : TTS - Tristram Speedy, Manurewa, Yaesu 7700, 55m 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@paradise.net.nz. Thanks to all the contributors for this month.

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

bandwatch.over9@radiodx.com with Andy McQueen

Hello from Trentham where we have had 11 days in a row without rain or wind Just a white frost and beautiful sunny days It reminds me of Nelson weather. And a special welcome to our new contributor Keith Barton from Ingle Farm South Australia. All times are UTC

KHZ	TIME	COUNTRY	STATION	& PGM	DETAILS	INITIALS
9475	0320	EGYPT R	Cairo Fair	in EE but weak signal with World News	Id heard	0355 A little noisy 26/6 CC
9495	0330	SWEDEN R	Sweden	Good in EE, Jazz Festival	pgm better than //15245	11/6 AMQ
9545	1300	???	Strong jamming here	, sounding like a motor boat engine		19/6 KSB
9550	1825	BANGLADESH R	Bangladesh Fair	in EE with QRM and Noisy News with reference to Bangladesh		20/6 CC
9550	1935	UNKNOWN LOCATION	VOA Fair	in EE with 'Border Crossings' pgm		8/7 AMQ
9600	1010	??	?? Unidentified Spanish speaking station	heard through to 1130 UTC		19/6 KSB (Both Cuba and Mexico are on this channel — Ed)
9600	2305	VATICAN CITY	Vatican Radio	Good concluding EE pgm		15/6 IC
9610	1250	TAIWAN R	Taipei Int, EE/Cantonese language lessons.	ID at S/off		1259 29/6 KSB
9675	2030	GT BRITAIN	World Beacon Rampisham Fair/Good	in EE Heard daily with DX pgm on Saturdays		HJS
9675	2200	ITALY RAI	Poor opening in EE to Japan	audible some days		HJS
9730	1847	VIETNAM V	of Vietnam Fair in FF with Music pgm plus Id			20/6 CC
	2030		Fair in EE with slight QRM			// 13740 14/6 RP
9737.6	2320	PARAGUAY R	Nacional Asuncion	Poor in SS with het. Accordion Mx (musica arpra)		12/6 LMM
9795	0330	CANADA V	of Vietnam relay	Good in EE, ID on S/on for 30 minute		pgm 11/6 RP
	0330		Good signal in EE with News Bulletin by YL			8/7 AMQ
9835	0230	HUNGARY R	Budapest Fair in EE with Id at S/on			7/6 RP
9895	1920	HOLLAND R	Nederland	Good in EE with Roughly Speaking		pgm 18/6 AMQ
9925	1730	BELGIUM RVI	Wavre Fair in EE, Nx // 13710 via Juelich	slightly weaker		8/7 AMQ
9930	1200	USA WHRI	Good in EE with Id and Christian programming			19/6 KSB
9940	1735	RUSSIA — CHECNYA	Radio Checnaya Sudnaga	Good in Russian with talkback		pgm Gave Freq and Id at 1803 8/6 TTS
9990	2200	EGYPT R	Cairo V/good in EE with much improved modulation			these days 9/6 IC
11565	0850	USA WHRA	Poor signal due to KWHR on same frequency but with different			pgms WHRA easily heard during the low peaks of KWHR Id of WHRA at 0906 with Indiana address 24/6 RP They both have the same mail address —Ed)
11620	2105	INDIA AIR	Fair in EE with item on Indian/Russian relations	Strong signal but modulation only fair		KVB
11680	0057	SPAIN REE	Strong in SS with Americas service			ex 11945 29/6 IC
11700	0255	BULGARIA R	Bulgaria V/good in EE into FF at 0300			18/6 AMQ
11720	0503	SOUTH AFR	Channel Africa gd, EE, item on combating Aids			ID 0507 28/6 KVB
	0516		Good in EE with News about Africa and S Africa	Slightly distorted		6/6 CC (Come to us over the Sth Pole ? Ed)
11740	0214	USA R	Taipei Int Strong in EE with Taipei weather forecast			Id at 0215 15/6 CC
11755	0050	ITALY RAI	Fair in SS with Bird call I/sig	Language change at 0110		18/6 RP

11765 1800 RUSSIA VORWS Good in EE with News 1/7 AMQ
 11780 1900 USA? VOA/Vgood in EE with 'Border Crossings' // 11970 13 & 14/6 RP
 11800 0400 ITALY RAI Strong opening in RR // 9670 the same 16/6 HJS
 11870 0456 BOSNIA R Yugoslavia Strong, EE mx pgm with Announcements by YL 11/6 CC
 11880 2025 ITALY RAI Fair in EE with Id S/off 2050 13/6 RP
 11900 2200 ITALY RAI Poor noisy signal in EE with music pgm 9/6 RP
 11915 2300 USA WWBS Macon Ga Good in EE with id and email address 2330 'Point of Contact' Pgm R Gaucha Porto Alegre Brazil 11/6 LMM
 11925.52 0310 BRAZIL R Bandierantes Fair in PP with Jingle Id Best on LSB to avoid QRM from 11955 24/6 BDC (You had the wide filter on? —Ed)
 11930 0300 USA WSHB V/good in EE with Church service Mondays only 6/7 HJS
 11930 0915 USA? VOA Excellent in EE with News Now pgm 24/6 RP
 11955 2200 SINGAPORE BBCWS Good daily opening in EE to Oceania HJS
 11980 2100 GUAM KSDA Poor & noisy opening. Full Id in EE then into Mandarin 24/6 HJS
 11990 1838 KUWAIT R Kuwait Fair in EE with World News 20/6 CC
 12080 0515 BOTSWANNA VOA Fair in EE with public notice about measles vaccination Id 0517 28/6 KVB
 12085 2125 SYRIA R Damascus Fair in EE with commentary mixes with other HJS (R Australia 12080?-Ed)
 12095 0430 CYPRUS BBCWS rel. Ex EE 'The World Today' //15575 the same + via Cyprus HJS
 13605 0300 IRAN VOIRIB Excellent in SS with great audio Off at 0327 4/6 HJS
 13625 2245 INDIA AIR Bangalore Fair/Good opening in EE HJS
 13640 2208 TURKEY VOT Good in EE with some QRM HJS
 13680 0259 JORDAN R Jordan opens in AA at very good level. New frequency? 7/7 IC
 13685 0200 FRENCH GUIANA CRI Good signal in SS with Id 26/6 RP
 13690 0230 RUSSIA VORWS V/good signal in EE with Kaleidoscope Pgm 13/6 RP
 13690 2200 GERMANY D/Welle Good opening in GG with Nx HJS
 13700 1840 HOLLAND R Nederland Flevo Fair in EE with News 24/6 AMQ
 2000 V/good in EE with news 17/6 RP
 13720 1750 USA WYFR Fair in SS/PP? With Id Into GG at 1800 1/7 AMQ
 13730 1840 AUSTRIA ORF R Austria Good in EE with Listeners letters pgm 16/7 AMQ
 13745 2130 IRAN VOIRIB At a good level in EE but with muffled audio HJS
 2158 Fair in EE with Mailbag pgm
 13770 0100 FINLAND YLE R Finland Fair in EE Into FF at 0115 8/6 RP
 15010 2035 CLANDESTINE Poor distorted signal in unknown language and martial music Off with anthem? At 2045 Who? HJS (George Speight in Fiji ?? — Ed)
 15170 0316 USA? WYFR? Fair in AA with OM chanting 11/6 CC
 15240 1055 NTH MARIANAS ISLANDS VOA Good in EE with Catherine Cole hosting mx pgm ID 1058 15/6 KVB
 15245 0330 SWEDEN R Sweden Good in EE on this new frequency to Nth America 8/6 IC
 15250 0206 SRI LANKA VOA Moderate in EE with VOA News Now Id 0206 15/6 KVB
 0255 Fair in EE with feature on sea shanties Id 0258 11/6 CC
 15255 2130 SWEDEN R Sweden Good in EE with 60 degrees North pgm 8/7 AMQ
 15315 1815 GT BRITAIN ? RTE Good in EE. News and Sport from Wimbledon live 8/7 AMQ
 15335 0400 ROMANIA R Romania Int Good in EE // 15405 V/good 11940 Poor with QRM HJS
 15410 1815 MOROCCO VOA Fair in EE with Sports News 1/7 AMQ

15425 0100 SRI LANKA SLBC Fair in EE with religious pgm SLBC News at 2000 6/6 RP
 0154 Fair/moderate in EE with pop mx Id 0200 15/6 KVB
 15440 0955 CHINA CRI vgd in CC the another Asian language after ID at 1000 18/6 KVB
 15455 1710 GT BRITAIN World Beacon via Skelton Good in EE with Religious Pgm 10/7 AMQ
 15476 2345 R Nacional Arcangel Fair - SS anncs, tango music 0000 Time pips Id R Arcangel San Gabriel mentioned Mention of 'futbol' commentary Some polar flutter LMM
 15550 2130 GUAM KSDA AWR Asia Good in EE but with severe echo on signal 5/6 HJS
 15560 2140 GERMANY AWR Julich Ex in Dyula Id at 2140 UTC 5/6 HJS
 15600 2200 USA R Taipei Int via WYFR facilities Good opening in EE 5/6 HJS
 15785 0630 ISRAEL Galei Zehal Rap mx Id in Hebrew with ads and news 11/6 LMM
 17510 0217 HAWAII KWHR Strong in EE with high pressure religious message 17/6 CC
 17525 0048 RUSSIA R Free Asia Moderate in unidentified Asian language Id 0127 6/6 KVB
 17535 0400 ISRAEL Kol Israel Good in EE with News to 0415 1/7 AMQ
 17665 2030 UNKNOWN LOCATION World Beacon Poor in EE with Religion pgm Much better on // 7360 from Russia 8/7 AMQ
 17715 1036 SRI LANKA D/Welle Good in CC Id 1038 5/6 //21695 Fair and leading first freq by a significant mount 5/6 KVB
 17790 0205 ROMANIA RRI Poor in EE with strong QRM from BBC on same channel // 15380 also suffers QRM 6 & 7/6 RP
 17845 0216 USA? R Taipei Int? Strong in SS with YL speaker 15/6 CC
 17890 0758 CHINA CPBS Beijing Good in CC with Nx after Id at 0800 24/6 KVB
 21630 0210 UAE R Abu Dhabi Strong in AA with chanting by OM //21735 the same 17/6 CC
 21700 0532 UAE R Dubai Good in EE, news and weather in EE id //17830 weaker 11/6 CC
 21795 0530 THAILAND R Thailand Strong opening in EE with News with QRM from VORWS on 21790 18/6 BDC

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. 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 Upper Hutt. 73's, Andy McQueen.

Shortwave Exchange

AMQ Andy McQueen Trentham Sony 6800 & 40m long wire / BDC Bryan Clark Mission Bay Auckland AOR 7030 and Alpha Delta Sloper / CC Cliff couch Paraparaumu Sangean ATS 803A with 60 m horizontal loop / HJS Jack Searle Haumoana Hawkes Bay Icom R71 100 m longwire & 19m & 60m dipoles / IC Ian Catermole Blenheim JRC NRF535 T2FD Alpha Delta / KSB Keith Barton Ingle Farm South Australia Sony 6800 and 30 m wire / KVB Kelvin Brayshaw Levin (where the deer play with broccoli) FRG7 Sony ICF 2001 Collins 51J4 5 MHz dipole & 40m horizontal loop / RP Robert park Lower Hutt Kenwood R1000 40 foot long wire / TTS Tristram Speedy Manurewa Auckland Yaesu FRG7700 with 55m N/S random wire.

utilities@radiodx.com with Evan Murray, Auckland

Life in the Canadian Arctic

Reading old correspondence I found a letter, doubling as a QSL, from Chris Strube, Flight Service Manager of FSS Cambridge Bay, NWT Canada. The functions of the Station

after hours also if you can arrange accomodation for us NM

11297 0155 Rostov Volmet in Russian JC
11300 0453 Tripoli/UN 283 JC
11306 1040 New York/TWA 934 FL 310 Boyma at 1142 Minus 35o fuel 27.5 EM
11309 0957 Singapore/Cathay 737 FL 390 SC KQFH EM
11396 1020 New York/UPS 773 EM
11396 0956 Singapore 226/Perth Contact Jakarta EM
11396 0956 Eva 238/Perth EM
11396 0957 Speedbird 16/Perth FL 390 Contact Baala 120.7 Estimate Baala 1119 EM
11396 1000 Manila/Cathay 781 Report Masab EM
11396 1009 Manila/Eva 238 FL 370 EM
11396 0934 Speedbird 10/Bali BJ
12356 2020 ZLM Taupo Radio WX and Nav warnings NM
12359 2045 Unid/Russell Radio Can you spell name of your boat "NORDSTJEREN" in English
North Star Copy that NM
13098 2025 Cyprus Radio Telemonitoring Service on tape NM/PC
13261 0534 Nadi/Kiwi 472 Climbing to 095 reporting 220 EM
13261 0540 Brisbane/Ascot 3634 FL360 Estimate Itsek 0619 Can we go direct to Legat Now
15 miles South EM
13261 0543 Nadi/Qantas 8 EM
13261 0555 Nadi/Kiwi 472 Maintaining FL 220 Do you have clearance EM
13261 0559 Nadi/Ascot 3635 EM
13261 2310 UPS 6901/Nadi Sigmat Severe turbulence FL 250-390 in a line 12 NM 10S 170E -
15S 171E - 20S 172E - 25S 173E NM
13261 2330 CF AFI/Nadi clear to Nelson No reported traffic NM
13261 0116 Auckland/CF AFI Gisborne next NM
13261 0153 Auckland.CF AFI require Nelson WX NM
13261 0116 ZK JFM/Auckland Estimate Norfolk 0348 Report Ops Norfolk 0245 NM
13261 2227 Nadi/RAF 7499 NM
13261 2227 RAF 7499/Nadi Confirm you have crossed position E -call again position H NM
13270 0459 Gander Volmet followed by New York Volmet at 0500 BJ
13330 0832 Houston/Pionair 558 advises off San Salvador departed El Sal International for
Guatemala JC
15034 1027 Trenton Mil with WX Bagotville Ottawa and Pearson International EM
17925 0200 Bangkok Volmet WX Jakarta BJ
119.2 2206 Ohakea/Air Force 01 Abeam Otaki Beach You will be radar monitored to
Wanganui NM
Thanks to contributors - JC John Charlton, Greymouth, Kenwood 5000, 30m wire - NM
Neville McKenty, Napier, NRD 545 and ICOM R70, 60 foot antenna sloper, Shortwave Lis-
tener, Discone D130 - BJ Basil Jamieson, Oamaru, Kenwood 5000, DrakeR8, 30m wire - EM
Evan Murray, Auckland, Kenwood 5000, T2FD

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

Hi all, as mentioned last month the Sun has played a significant role in MW propaga-

tion and whilst I struck the wrong conditions on June 24th, there have been some good openings around the 27th of the month. Peter Chambers called a few nights ago to report conditions on the lower SW bands were very good and that is often a portent for better MW signals.

And while I think about it, have been reading references in technical articles to signal and noise levels in dB figures and if you've been wondering how that equates to S-meter readings, every S-point equals 6dB, so S-9 is 6 x 9 or 54dB... a couple of examples: if an amplifier is quoted as giving a gain of 20dB, that's just over 3 S-points, or if the attenuator on your receiver has a setting of -30dB then that will knock the signal back by 5 S-points...

And also of a technical nature... a differentiation exists between Greyline and Sunrise/Sunset lift. For a Greyline enhancement, sunrise and sunset occurs simultaneously in both the transmitting and receiving location. Most notable occurrences of Greyline here are European signals that peak at those times. When only one end of the transmit-receive path is experiencing sunrise or sunset, then it's a one-way enhancement though as Peter Chambers notes in his trail items, it really does boost signals...

John Allchin, Seednee "A QSL received (would you believe) from WHKT-1650, first verie of any type in 19 years for state 38!!" *Hey! Only 12 to go!*

Lindsay Robinson, Invercargill "Logs from home over the last couple of months are Waatea 603, Thailand 1575, AM Alive 1620 (2AM??), 2NTC 1701, Kidnappers 1431 and at Tiwai KKTR 1650, XEJP 1320, the night the power went off, packing up to come home, went to change the battery over to charge, place went into darkness and to make things worse had left the torch at home, One of the batteries had died after 25 years. One QSL in, WTDY 1670" *Guess that saga could be called "The Night the Lights Went Out at Tiwai"...*

Peter Chambers, Napier "...been doing a bit of listening lately. Surfcasting season now pretty much finished, Haven't hit much Latin DX. June 6th and 7th produced a few Latins but otherwise very poor. Had some good X band North American reception including right up the East Coast. Sunrise lift peaking really prominent for 4 nights or so around the 27th. Power-line noise not too troublesome lately with enough rain to keep things quiet. The enhanced X-band N. American signals actually came up strong enough to over-ride what would have been normal power noise levels anyway. Pity it was too cold and horrible on those nights to visit Bluff Hill. Could have got some interesting results on MW" *Saving them all for October???* And a Brazilian DXer has reported 2380 as the second harmonic of 1190!

Laurie Boyer, Invercargill "Veries in WKBI 1440, 2UH 1044, 2ML 720" *How have conditions been in the deep South?*

Sutton Burtenshaw, Hamilton "...these are my June doings; Reports away to; 1XU, 1YP, 1YW, 3YA, Southern Star 576 & 657, R Sport 1503, and R Pacific 738. QSLs in from; 1XC, 1XU, 1XHC, 1YP, 1YW, Southern Star 576, and ppc from 1XP, 1ZK, 1ZE, 1ZN, and R Sport 729." *Very timely bunch of QSLs there... see below!*

David Norrie, Auckland, "Enclose a couple of logs from Point Wells an hour north of Auckland. Receiver AOR 7030, aerals both east to north east, 60 ft and 1000ft respectively the latter feeding receiver via FS balun. All 24th June. Great assistance from Bryan Clark finding my way below 2Mhz." *Aha! Another DXer finally seeing the light and discovering MW DX! Thanks for the trail items.*

Paul Ormandy, Oamaru "Well I haven't been too motivated lately and the one trip to Waianakarua was a disaster... one of the main aerial poles has a guy snapped, the Latin aerial was down and the food & crockery cupboards were covered in mouse droppings!

Spent a couple of hours cleaning and fixing before settling into the DX only to find condx were very poor. Fortunately that didn't stop the e-mail postie delivering a QSL from Brazilian Sistema LBV Mundial 940kHz."

Merv Branks Trophy

Final result: Winner - Sutton Burtenshaw with 18 QSLs! Well done Sutton! And the competition starts anew next month so get logging!

Best of the Month

Paul Ormandy with Sistema LBV Mundial, Rio de Janeiro 940kHz 100kW

BroadcastTrail

- 640 0923 USA KFI Los Angeles CA, good copy powering through local 630 National Radio splash. Remarkably strong. PC
- 870 0629 HAWAII KAIM Honolulu, great signal "The right choice for the new millennium KAIM" DN
- 1000 0609 COLOMBIA HJAQ RCN Cartagena, weak but good copy & splash free under Bluff Hill. RCN ids. 6th June. PC
- 1110 0709 USA, KRLA, Pasadena CA (p), with cost of oil and ad for "Galpart or Golfin Motor dealers for Ford.. Lincoln featuring Mary Washington.". a satisfied customer... from "heart of San Fernando valley" DN
- 1130 0549, USA, KWKH Shreveport LA (p) relaying Larry King with "presidential year and interview with Tiger Woods as he leaves for the British Open, phone... 888 609 2529", identifying as "The Big One and .CNN Larry King live..?. Radio Network" at 05.58. DN
- 1180 0604, USA, Radio Marti, Marathon Key FL with lovely "flamenco like" guitar music// 6030. (First time it was good to have Marti on 6030, normally cursing it for blocking other stations), fair. DN
- 1380 0549 CHILE R Corporacion, Santiago, good copy w/ Spanish relig. Exc w/id on hour. 6th June. Bluff Hill killing 1377 splash. PC
- 1470 0604 PERU CPN Radio, Lima, exc copy w/id. PC
- 1560 0430 MEXICO XEFAJ R Consentida, Mexico C, ID & call on half hour, good on peaks. PC
- 1570 0920 MEXICO XERF Cd. Acuña, good w/id "La poderosa". PC
- 1580 0957 USA KCWW, Tempe Arizona with ID as "Radio Tempe" with kids "hands on head", fair to good. DN
- 1580 0447 UNID location but ID as "Radio Disney" and piece about "computers we want". DN (Most probably KMIK Tempe AZ-ed)
- 1620 0458 USA, WTAW, College Station Texas, with full ID and news of political asylum possibilities for Eilan Gonzales, fair. DN
- 1630 0837 ARGENTINA R Buen Aire, exc w/strong signal and copy with regular "Dieciseis Treinta AM" ids, only heard 8th June. PC
- 1650 0934 USA, KDNZ Cedar Falls, identifying as "KCNZ" with "Mattel software legal dispute" and E.coli beef scare . CBS News at 10.00 featured arson in Australia read by Steve Paton and " advised that they were on 1650 and 1250", Louis Armstrong at 10.07 and Commander Doug at 10.09. DN
- 1650 1100 USA KBDJ Denver CO, Id on the hour "Christian music, AM 16-50, The Beat" regular "The Beat" ids between mx. Peaking very strong at this time. PC
- 1660 0505 USA, KXOL Brigham City (I) no firm ID but distinctive oldies, "Magic moments",

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2000/2001
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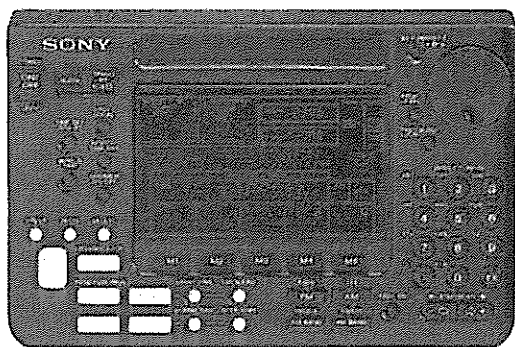
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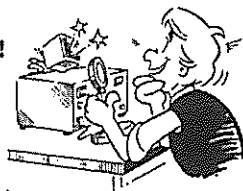


The New Zealand Association of Radio Transmitters Inc.

Phone: 04 528 2170 Fax: 04 528 2173

Hibiscus Coast Branch contact 424 8083 or emancor@family.net.nz

TALK around the WORLD



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Perry Como at 5.05, "Crazy" Patsy Cline at 05.24, fairly good at times. DN
 1120 v.strong signal June 8. Very fluttery & broken, audio horrible even in AM sync. PC
 1670 0800 USA WTDY Madison WI, "AM 16-70 WTDY" fair copy w/id then news, Id again 0803. Much stronger 0915-1000 on sunrise peak. PC
 1670 1023 USA WRNC Warner-Robins GA, excellent strength on sunrise peak, totally dominant after WTDY fade-out "WRNC Real Country Music" id. PC
 1680 0846 USA, WTTM, Princeton New Jersey (I),with sports phone in and many callers answering 6 questions. 3 way tie and Linda from New Jersey wins" ESPN radio ID at 08.55, snips from sporting occasions, co mixing with black music station (WJNZ?) poor to fair. DN
 1680 0952 USA WJNZ Ada MI, esc strong signal right on end of sunrise peak at this time, rubbish music and "16-80 Jam" id. Faded right down by 1000z. PC
 1690 0909 USA, WPTX Lexington Park MD ID at 09.12 , "getting better" Beatles, phone in caller from Cincinnati on Mike Tyson adverts for Makers Insurance phone 1-800-781-EERM, major league baseball results at 09.29. DN
 0932 massive sunrise peak at this time then rapid fade-out. No Id heard. Sports program "Sports Overnight America" PC
 1690 0644 USA, KDDZ Arvada CO (p) "A whole new day" from Walt Disney film, poor, tentative only. DN
 1058 excellent signal with Radio Disney program. No id heard 1100. Just audible after WPTX fade-out, building up stronger and stronger to 1100.
 Contributors: DN - the converted David Norrie, Point Wells and PC - Peter Chamber from home and Bluff Hill

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

NEW ZEALAND TRN (The Radio Network) launched a brand new format for New Zealand radio on 16 June - a '60s and '70s era soul / disco station on Hawkes Bay 1530AM. JO 1530, broadcasting on a frequency recently purchased from the Xtreme group, replaces the previous classic gold station. The music log will be produced in Auckland, says TRN Programming and Marketing Manager David Brice, but the station will feature local presenters. "It's a soul-driven format, going from the '60s Motown sound through to the '70s disco era... so we'll have artists like The Supremes, Smokey Robinson, Heatwave, Donna Summer. "We've looked at similar formats in the US, but this is very much a Kiwi version. A lot of the songs were huge hits here in their day but have been largely overlooked since. We think it has good potential." If the format works with its target 35-50 year old audience, TRN may look at opportunities in other markets, says Brice. (Median Strip via BC)

Good (long term?) news for BCB DXers — are we about to see another significant step in the gradual move away from medium wave broadcasting in New Zealand? National Radio Auckland 756 will officially commence on FM 101.4 on 5 August, with a 1kw transmitter. (But I suspect there will be a simulcast on AM756 for a long time. BC) This is the first NZ frequency allocation to the presently vacant 101-108 FM range. Later this year the Taupo station on 1494 will commence simulcasts on 101.5 (with a low power repeater on 107.9 covering Acacia Bay) and 1494 AM will close soon after! At this stage these National Radio FM transmissions will be in mono. (Barry Hartley/Bryan Clark)

Auckland's Access 810 AM loses access to their current transmitter site from end of July. Apparently, alternative AM sites are hard to find, and Broadcasting Minister Marion Hobbs has told Access Radio they'll be urgently allocated an FM frequency in the 100-108 band. All other AM Access stations are likely to be offered first choice for an FM frequency in 100-108 range. (David Ricquish)

The address for all Radio Network (TRN) radio stations in Auckland, including Radio Sports now Private Bag 92 198, Auckland. This address will read TRN's Technical Manager John Bloomfield who has previously signed Radio Sport QSLs. (Barry Hartley via BC)

AMERICAN SAMOA WVUV Leone 648 has been off-air, but was due to return to air in June with a hot adult contemporary format, parallel to Los Angeles station KKHJ. (IRCA DX Monitor)

ARGENTINA LT9 Radio Brigadier Lopez, Santa Fe on 1150 replied with a brief e-mail QSL from Mariano Colombo, DJ 4 weeks after I sent snail mail SS report with Argentine mint stamps. He promised written response as well. E-mail address: primera_edicion@yahoo.com (Paul Ormandy)

AUSTRALIA 3AK Melbourne 1503 will move to new frequency 1116 on 1 January 2001. Simulcast on both frequencies will continue till 28 February then the vacated 1503 will then be available for a new community radio station. 2 additional open narrowcasting radio services will be available in Melbourne on 1422 from Werribee and 1593 from Epping. A third open narrowcasting service may be available in Melbourne on 1341, as the service may be used to serve both Geelong and Melbourne. More on new radio services for Melbourne, Geelong and Colac can be seen at the ABA Web site: http://www.aba.gov.au/about/public_relations/newrel_2000/39nr2000.htm (Dave Onley)

LITHUANIA All Lithuanian Radio's mediumwave transmitters, except Sitkuni 666 have closed down for financial reasons. However, Baltiyskaya Volna [Baltic Wave] Radio, which uses 612 with 50kw continues. (Voice of Russia)

THAILAND On 1 July, Radio Thailand introduced a new service in English for domestic listeners on 918 AM. Schedule is 2200-1600 UTC and programming mostly consists of uninterrupted American & British pop oldies, with a short recorded ID just after the top of the hour by an American-accented male saying 'Radio Thailand, the sound and the soul of Thailand', or 'Radio Thailand, your companion in the Land of Smiles'. The station also relays the external service programme 'Voice of Thailand' with chit-chat and tourism promos at 1300-1330. As with all Thai domestic stations, 'ticking-clock' music, chimes, a time signal, time announcement and National Anthem are carried at 0100 and 1100. A more detailed announcement is made at the end of relay segments, and also just before sign-off, when it is repeated in Thai. (Davies via Glenn Hauser's DX Listening Digest)

EXPANDED BAND UPDATE (1610-1700 kHz)

Items from IRCA "DX Monitor" magazine 2-6/00

- 1620 WTAW College Station TX first heard 31 March. Heard with Art Bell. (Pat Martin OR) QSL card received. Address 2700 East Bypass, #5000, College Station TX 77845. (Gary Jackson CA) Previously allocated KZNE and KAZW calls.
- 1640 KDIA Vallejo CA format changed from CRN Catholic talk to EWTN Catholic.
- 1650 KCNZ Cedar Falls IA new call. Ids as as "The new 16-50 KCNZ The Talk Station". (Shawn Axelrod MB) Verified by prepared card from Robin Rogers; 721 Shirley St, P O Box 157, Cedar Falls IA 50613. (Pat Martin OR)

1650 KGXL Torrance CA format changed from standards // KGIL 1260 to jazz //KJAZ 1260. Per later report, station was sold by Mount Wilson FM to Chagal Communications for US\$30 million. Format now Korean, parallel to KFOX/KREA 93.5 FM Redondo Beach/Ontario. (Gary Larsen & Denis Gibson CA)

1660 KAXW Merced CA new with JRN Spanish Adult Contemporary format not on air yet (23 May) (Gary Larsen CA)

KBJC Kansas City KS construction permit has new call KWSJ "Wichita Smooth Jazz"

1670 Moreno Valley CA currently silent on 1530 is expected here. (Gary Larsen CA)

1680 KAZJ Seattle WA construction has not started. The chief engineer says station will probably have sports format and will apply for KSEA call. (Pete Taylor WA)

1690 WPTX Lexington Park MD new call ex WMDM. (Axelrod MB) Carries Adult Standards 6am till noon, 3pm till 7pm, otherwise talk format.

1700 KBGG Des Moines IA has switched format from BNN Business Talk to CNN Headline News. Identifies as "CNN Headline News on The New AM 1700". (Eric Bueneman MO)

American DXer Patrick Griffith advises he is now the QSL coordinator for new X-band station KBJD Denver 1650. Replying to my reception report, Patrick wrote "The station forwarded your reception report to me today and your QSL letter will be on the way soon. Although we have received previous reports from Finland and Italy, yours is the first report we have received from New Zealand. Thanks for your great report. I hope you enjoy the QSL." Patrick's email address is AM-DXer@webtv.net (Bill Woller via Paul Ormandy)

USA WSCR, the all-sports format in Chicago on 1160 will move to 670 on 1 August 1, and the historic WMAQ calls will be retired. (via Christos Rigas, Wood Dale, Illinois, Chicago Area DX Club via NRC-AM via DXLD)

NORTH AMERICAN CHANGES from IRCA's "DX Monitor Feb-June 2000

- 540 KNOB Costa Mesa CA has changed callsign to KKGO.
- 550 KUZZ Bakersfield CA slogan "Bakersfield's best country." (Tim Hall)
- 570 KKfJ slogan "country music you love & the fun you want." (Tim Hall CA)
- 610 KVA Albuquerque NM has changed callsign to KHTL.
- 660 WORL Altamonte Springs FL is new, carries AP news, talk programming.
- 740 KTWK Colorado Springs CO has new call letters KVOR.
- 820 KCBF Fairbanks AK format changed from oldies to JRN classic country.
- WYPA Chicago IL now carries EWTN Catholic format.
- 830 KPLS Orange CA format changed from CRN Catholic talk, to EWTN.
- KNCO Grass Valley CA has construction permit for 5kw nights DA.
- 900 CHYC Sudbury ON has construction permit for move to FM 98.9.
- 920 KIHM Reno NV QSL letter from Jerry Usher, Director of Programming. Address: P O Box 70685, Reno NV 89570. (Pat Martin OR)
- KHTL Albuquerque NM call changed to KVA "Shepherd's Voice".
- 930 KKHJ Los Angeles CA changed callsign back to KHJ on 15 March. (Gary Larsen CA)
- 960 KIXW Apple Valley CA format was Spanish hits, now talk.
- 970 KANM Modesto CA has new callsign KESP "ESPN Radio".
- 1040 WJNO Boynton Beach FL changes call to WBZT.
- 1050 KMAP Frazier Park CA format was was classical, now Radio Disney.
- 1060 New station applied for St-Nicolas, Quebec with 10kw DA-1. Format to be FF country.
- 1130 KSDO San Diego CA format was business/talk, now all-talk.

- 1150 WTAW College Station TX callsign changed to KZNE "The Zone".
- 1190 WAJL Pine Castle FL call changed to WIXL "Excel 1190".
- 1200 KOQL Soquel CA is new, on air testing.
- 1210 KQEQ Fowler CA format is now Norteno, slogan "R. Canon".
WNMA Miami Springs FL requests 49kw days, directional.
- 1220 KWPA Pomona CA format changed from Regional Mexican to SS talk //KWKW but retains Regional Mexican overnight. Call now KWKU.
- 1230 KRSY Alamogordo NM format was classic C&W, talk, now ESPN sports, talk.
- 1250 WJIT Sabana PR is a new station, tropical format, slogan "Radio Hit".
WDAE Tampa FL call changed to WHNZ, slogan "1250 WINS".
- 1260 KJAZ Beverly Hills CA new call ex KGIL with new jazz format. (Mike Sanburn CA)
Slogan K-Jazz.
- 1290 WDLF Panama City Beach FL becomes WPCF "Panama City Florida"
- WBZT West Palm Beach FL callsign becomes WJNO.
- 1300 WJSH Terre Haute IN callsign becomes WSJX "The X"
- KTWK Colorado Springs CO new callsign ex KVOR. (Bill Nittler CO)
- 1310 KIQQ Barstow CA has returned to the air with regional Mexican format.
- 1340 KATA Arcata CA format is now ESPN sports.
- KJAZ Oroville CA has changed callsign to KEWE. slogan "Kiwi".
- KIST Santa Barbara CA new call ex KXXT. Format oldies, slogan "Cool".
- KTMM Grand Junction CO new call ex KQIL. Slogan "Team Radio". (Bill Nittler CO)
- 1370 KFRO Longview TX format was urban AC, now ESPN sports.
- 1380 WWRF Lake Worth FL is new callsign replacing WLVS.
- 1390 WXTC Charleston SC format is black gospel.
- 1410 CIGO Port Hawkesbury NS has construction permit for 101.5 FM.
- 1450 KVEN CA slogan is "Ventura County's news talk, where the news watch never stops,
News Talk 14-50. (Tim Hall CA)
- 1460 WZEP DeFuniak Springs FL applies for increase to 10kw days, non-directional.
- 1480 KSBQ Santa Maria CA format is regional Mexican, simulcasts KXLM-FM overnight.
- 1510 KJQI San Rafael CA changes callsign to KMZT "K-Mozart".
- 1520 KVTA Ventura CA is "Ventura County's talk authority". (Tim Hall CA)
- 1540 KCTD Los Angeles CA callsign changed to KMPC. See 1560.
- 1550 KXTO Reno NV new format - Liberty Works new age/cult talk (a pretty creepy station!)
- 1560 KCJK Iowa City IA returns to air w/ABC hot AC format & talk //KCJJ.
KMPC Abilene TX has become KZQQ "The Zoo".
- 1570 WGSR Fernandina Beach FL verified by letter from Dick Boekeloo, C E. (Pat Martin OR)
- KOSZ Vermillion SD has change of call letters to KUTK.
- 1580 KRAN Merced CA callsign change from KTFN.
- 1580 KTFN Merced CA format was sports, now JRN SS hits (watch for new call letters soon).
- 1590 KQLO Sun Valley NV format changed from regional Mexican to Spanish hits.
- 1600 KTAP-CA Santa Maria CA format is Regional Mexican, slogan "Radio Ranchito, musica de Mexico". (Tim Hall CA)
- KIVA Albuquerque NM here ex 1580 with 10kw non-directional. Change occurred in early February due to local signal problems, says v/s Max Gabaldon, Satellite Operator. (Pat Martin OR)

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

1999 ARGENTINE DX AWARD The following DXers qualified for the special award made by the NZ Radio DX League to commemorate the 75th anniversary of the first DX radio contact between NZ and Argentina in 1924: **SERGEY KOLESOV** (Ukraine), **NICOLAS AMUCHASTEGUI** (Argentina), **HELMUT LESSER** (Germany), **IGOR YAREMENKO** (Russia), plus League members **JON STANDINGBEAR** (USA), **PAUL ORMANDY**, **BRIAN WEBB**, **BARRY WILLIAMS** and **BRYAN CLARK** (all from NZ). All will receive a commemorative certificate the design and printing of which has still to be finalised. Well done gentlemen!

MILLENNIUM COMPETITION Congratulations to League member **GUNTER JACOB** (Germany) who was clear winner of this contest arranged by NZDXRA. Others to earn certificates were **RON KILLICK**, **DAVID NAIRN**, **ROBERT PARK**, **WALTER SINGLETON** and **BRIAN WEBB**.

WITH REGRET, we record the recent passing of Canterbury member **RAYMOND LEWIS** of Hawarden. Our sympathy to Mrs Lewis.

G5RV INVENTOR DIES A number of our members use the world-famous G5RV antenna for shortwave reception. The designer **LOUIS VARNEY** died on 28 June at the age of 89. The G5RV multi-band wire antenna is among the most popular of all antenna designs and was first described by Varney in the November 1966 issue of the RSGB Bulletin. He was an RSGB member for 74 years and served as life president of the Mid-Sussex Amateur Radio Society. (BC-DX bulletin via Barry Hartley)

KIWI SPORT BACK ON SHORTWAVE! Radio New Zealand International has signed a one year contract to re-broadcast selected sports commentaries from Radio Sport. RNZI Manager Linden Clark says she is delighted to be able to resume coverage of major New Zealand sports and believes that RNZI's audience in the Pacific will warmly welcome this announcement. She says that the one year contract allows for a more targeted approach to coverage. RNZI will be broadcasting rugby (All Blacks matches, selected Super 12 (two or three weekend matches) and selected NPC matches), one day cricket internationals and Sports World, Radio Sport's Sunday morning sports program. From time to time, coverage will also feature netball internationals and some key Rugby League matches. Coverage started 15 July with the Tri-nations Bledisloe Cup rugby match from Sydney. (via John A. Figliozzi, SWL e-group via Cumbre DX)

FM TRANSMITTER MAPS Keen FM DXers know that VHF DX openings usually are focussed on geographical areas. **IAN BAXTER**, Editor of the Pacific FM Megabase 2001 is offering the first series of Australian FM transmitter site maps. The A4 landscape-format maps have plotted on them all FM stations that broadcast from a transmitter site where at least one FM broadcast transmitter radiates a power of 20kw or greater. The maps list all transmitter site names, callsigns or station names, frequencies. Separate maps are produced for each Australian state. The 7 map set is available for AU\$20 (postage included). For DXers who have previously purchased the Pacific FM Megabase (1998 to 2000 versions), the price is reduced to \$15. Payment to be made to Ian Baxter by money order ONLY or at own risk with cash. To order, reply first by email to: pacificfm@hotmail.com

PHILATELIC ITEM Winner of the special commemorative postal item sent in by German member **GUNTER JACOB** was our club Treasurer **PHIL VAN DER PAVERD**.

BIRTHDAY GREETINGS 50 years ago on 4 July 1950, Radio Free Europe started transmissions from the Lampertheim station, north of Mannheim in Germany. The tinny 7.5kw

transmitter unit had the nickname "Barbara". Who could have imagined then, that 50 years later Radio Free Europe would be headquartered in Prague, in the Czech Republic! (thanks to Harald Kuhl, A-DX July in BC-DX 472 via Barry Hartley)

2000 ANNUAL GENERAL MEETING/MINI-CONVENTION Mark your calendars now for the DX social event of the year 2000 — the DX League's 2000 Annual General Meeting and Mini-Convention to be held at Motu Moana Scout Camp at Green Bay Auckland from Friday afternoon 13 October to Sunday afternoon 15 October.

branch.news@radiodx.com

Auckland

With most of the branch members at Waipu on a DXpedition the number of those present on 25 June was naturally low.

Daniel spoke on the upcoming meeting on 30 July. This was planned for a visit to Com Centre New Lynn, but it was possible that an alternative might be necessary, in which case a mention would be made in the magazine which was expected to be delivered prior to the end of the month

Mike Butler read out his monthly loggings for May, in excess of 12. Mike has consistently made available his loggings which is an encouragement to members.

Barry spoke of one or two American friends with whom he had made contact through his "ham" operations, and subsequently had "spoken" to by email. Two of those had recently joined the League and it was hoped to hear of their hobby through the "Talkback" column in the magazine, edited by David Ricquish of Wellington.

Daniel mentioned that an ex League member, Rod Bell of Northcote, had very kindly donated a National DR 49 receiver to the League for the use of a needy member. It was decided that this should be Marce, a blind young girl who was obviously delighted to have a receiver which would give her a great deal of pleasure. Bob Kay, a near neighbour of Marce, volunteered to erect an antenna, and get an understanding of the DR 49.

North Otago

The July meeting was held at Ray Davey's place with good attendance. Correspondence from the Southland branch giving us an invite to Tiwai Point for a weekend of DX'ing. It was decided to choose one of the last 2 weekends in September.

Peter Grenfell and Kelvin Brayshaw won the frequency competition with 14 correct. Alistair Sutherland gave a very interesting and fascinating talk about his recent trip to Sydney, Australia. Also, our recent display in the local library created some interest, but as yet, no new members. Our recent DX day down at Waianakarua was a great day with an excellent turnout thanks to Paul Ormandy. Cheers from the North Otago DX'ers.

marketsquare@radiodx.com

For sale - "Equinox" baluns, 9:1 ratio housed in waterproof box, standard PL259 UHF plug connection, easily converted for two wire or single wire aerials, designed for broad coverage i.e. 150kHz to 30MHz. Price \$40 shipped anywhere in NZ. Please order from Paul Ormandy, 33 Greta Street, Oamaru 8901, tel 03 434 5931, e-mail paul@radiodx.com

WANTED: Digital receiver such as Sony 6800W and/or Sony 2001/Sangean ATS803a. Should have AC/DC power packs and be in reasonable condition. Contact Sutton Burtenshaw, 69 Galloway Street, Hamilton. Email to suttonb@xtra.co.nz or z14qj@i4free.co.nz

DXISIMO - FOCUSING ON LATIN AMERICAN, AF- RICAN AND EXOTIC DX with John Durham

BOLIVIA. Radio Yura 4761.8. Has been sending a Email Diploma to those who have reported it. (WOR Klemtz) Noted here in NZ by David Norrie around 10.25.

BRAZIL. Radio Sao Carlos is to be reactivated on 2420 shortly at any moment. They have intentions to transmit on 49/60 metres in the future and will verify reports especially on the occasion of there 60th anv. in Sept. (WOR)

BRAZIL. Radio Pioneira 5014.99 0810-08.21. ID iRadio Pioneira iotra vez, (no oi iRadio Nacional, Teresina i como la semana pasada). (Mohrmann jul 14 CD)

DOMINICAN REP. Radio Villa. 4960.25 02.12. Reactivated and heard playing Bachata music. Noted on July 12. (WOR Mohrmann)

MALAWI. MBC. 50kw 3380 05.00-08.00. 7130 06.00-11.00 (CDX)

PERU. Radio Andina. 6673.03 09.19-10.15. Musica Andina, Local time and lds. Good signal. (Mohrmann jul 14 CD)

SOMALIA. Radio Galkayo. 7012kHz. In a update letter from Sam Voron he states that Hans Johnson of the USA has donated output tubes and fuses to keep Galkayo on the air after the station asked for help to keep its 100 watt amplifier spare parts handy. The station is 100 watts because it needs a new 16 KVA 230 or 240 volt generator to operate its 1000 watt amp. Any SWLer in the generator business or contacts in this field who can organise a donation and transport of such a generator should contact Sam. Anyone with a multiband vertical such as the C/craft R8 and antenna remote changeover switch RCS 8VX who can donate such to replace a damaged aerial they have would help to re establish an international broadcast capability there.

The Galkayo business community pay \$ US100 per barrel of fuel to keep the generator on the air for 20 days. If SWLers are interested I could re-establish the international aerial if I can get help with a return ticket. My idea is that interested SWLers could pay \$US100 to pay for fuel for the international broadcasts which could identify using the name of the country and fuel contributor. Eg. "This is New Zealand Friendship Radio (name of fuel contributor) broadcasting from Galkayo Somalia" for the life of the donated fuel. My idea is to retune their current aerial to a clear spot above 7.5 MHz and explain why that is better than 7.012MHz.

If any SWLers would like to help this radio station which has done a great job in a country which still after 10 years has no internationally recognised government, they can call me on 61-2-94171066 number anytime. Has been heard here in NZ on 7012 16.00-17.00.

UNIDENTIFIED. 5530.50 08.24. Commercial anouncement for iWheatiesi. Translated into EE iWhy donit you ask your mother to let you have a big bowl of crackly, crunchy, golden brown Wheaties flakes tomorrow morningi (Mohrmann July 14 CD)

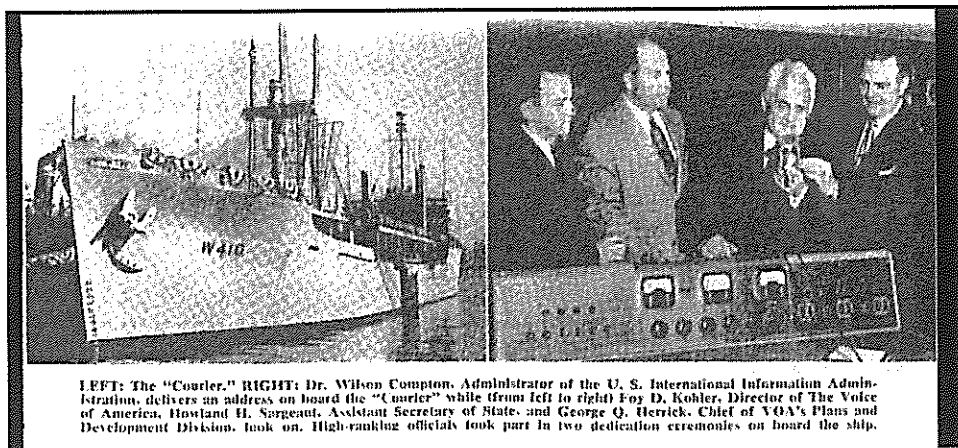
CD = Conexion Digital. WOR = World of Radio. CDX = Cumbre DX

English in Time Order with Yuri Muzyka

Time (UTC)	Frequencies (kHz)	Station Name	Station Country	Log Date	DXer Name
0100	15425	SLBC	SRI LANKA	6/6	RP
0100 - 0115	13770	YLE R Finland	FINLAND	8/6	RP
0154 - 0200	15245	SLBC	SRI LANKA	15/6	KVB
0205	15380, 17790	RRI	ROMANIA	6 & 7/6	RP
0206	15250	VOA	USA	15/6	KVB
0214 - 0215	11740	R Taipei Int	TAIWAN	15/6	CC
0217	17510	KWHR	HAWAII	17/6	CC
0230	9835	R Budapest	HUNGARY	7/6	RP
0230	13690	VORWS	RUSSIA	13/6	RP
0250	7305, 9605	Vatican Radio	VATICAN	26/6	CC
0255 - 0258	15250	VOA	USA	11/6	CC
0255 - 0300	11700	R Bulgaria	BULGARIA	18/6	AMQ
0300	11930	WSHB	USA	6/7	HJS
0320 - 0355	9475	R Cairo	EGYPT	26/6	CC
0330	9495, 15245	R Sweden	SWEDEN	11/6	AMQ
0330	9795	V of Vietnam	VIETNAM	11/6	RP
0330	15245	R Sweden	SWEDEN	8/6	IC
0350	6970	RFPI	COSTA RICA	12/6	IC
0400	11940, 15335, 15405	R Romania Int	ROMANIA	QRM	HJS
0400 - 0415	17535	Kol Israel	ISRAEL	1/7	AMQ
0404	4975.9	R Uganda	UGANDA	24/6	BC
0409 - 0428	3300	TGNA R Cultural	GUATEMALA	24/6	BC
0430	12095, 15575	BBCWS	UK	-	HJS
0446	6165, 13730	ORF	AUSTRIA	11/6	CC
0456	11870	R Yugoslavia	YUGOSLAVIA	11/6	CC
0503 - 0507	11720	Channel Africa	SOUTH AFRICA	28/6	KVB
0506	7290	RCI	CANADA	6/6	PRP
0515 - 0517	12080	VOA	USA	28/6	KVB
0516	11720	Channel Africa	SOUTH AFRICA	6/6	CC
0530	21795	R Thailand	THAILAND	18/6	BDC
0532	17830, 21700	R Dubai	UAE	11/6	CC
0600	7165	NBC	NAMIBIA	12/6	BML
0606	6090	Caribbean Beacon	ANGUILLA?	24/6	BC
0630	5935	University N/W	USA	5/6	RP
0650 - 0700	7255	V of Nigeria	NIGERIA	11/6	LM
0658	5935	WWCR	USA	4/6	CC
0745 - 0800	6160	CBC	CANADA	10/6	LM
0850 - 0906	11565	WHRA	USA	24/6	RP
0915	11930	VOA	USA	24/6	RP
0926	5050	SIBC	SOLOMON IS	7/6	KAB
1012	4890	Port Moresby	PNG	3/6	KAB

1040	6970	RFPI	COSTA RICA	2/6	DN
1055 - 1058	15240	VOA	USA	15/6	KVB
1200	9930	WHRI	USA	19/6	KSB
1200 - 1215	5030	BBS	BHUTAN	9/6	LM
1222	6970.5	RFPI	COSTA RICA	1/7	DN
1700	7215	Radio VOP	CLANDESTINE	24/6	BC
1710	15455	World Beacon	GT BRITAIN?	10/7	AMQ
1730	9925, 13710	RVI	BELGIUM	8/7	AMQ
1800	11765	VORWS	RUSSIA	1/7	AMQ
1804 - 1844	4965	R Christian Voice	ZAMBIA	6/6	KVB
1808 - 1813	4965	Christian Voice	ZAMBIA	24/6	BC
1815	15315	RTE	GT BRITAIN?	8/7	AMQ
1815	15410	VOA	USA	1/7	AMQ
1825	9550	R Bangladesh	BANGLADESH	20/6	CC
1830	3380	MBC	MALAWI	9/6	LM
1830 - 1900	6050	R Nigeria	NIGERIA	12/6	LM
1834	5920, 6055, 7345	R Slovakia Intl	SLOVAKIA	20/6	CC
1935	9550	VOA	USA	8/7	AMQ
1838	11990	R Kuwait	KUWAIT	20/6	CC
1840	7475	V of Greece	GREECE	10/6	TTS
1840	13700	R Nederland	HOLLAND	24/6	AMQ
1840	13730	ORF R Austria	AUSTRIA	16/7	AMQ
1842 - 1934	2310, 2325	ABC Territory Radio	AUSTRALIA	7/6	KVB
1845 - 1847	3385	R East New Britain	PNG	25/6	KVB
1900	11780, 11970	VOA	USA	13,14/6	RP
1920	9895	R Nederland	HOLLAND	18/6	AMQ
1926	3935	ZLXA	NZ	14/6	KAB
1930	7195	HSK9	THAILAND	14/6	KAB
2000	3366, 4915	GBC	GHANA	9/6	LM
2000	4810	V of Armenia	ARMENIA	26/6	KVB
2000	13700	R Nederland	HOLLAND	17/6	RP
2015	4760	ELWA	LIBERIA	9/6	LM
2025 - 2050	11880	RAI	ITALY	13/6	RP
2030	7360, 17665	World Beacon	?	8/7	AMQ
2030	9675	World Beacon Rampisham	GT BRITAIN?	-	HJS
2058 - 2100	7410	AIR	INDIA	1/7	CC
2100	3326	R Nigeria	NIGERIA	11/6	LM
2100	6050	R Nigeria	NIGERIA	9/6	LM
2100	6095	VOA	USA	5/6	RP
2100	11980	KSDA	GUAM	24/6	HJS
2102	5995, 7235	R Canada Intl	CANADA	1/7	CC
2105	11620	AIR	INDIA	-	KVB
2125	12085	R Damascus	SYRIA	-	HJS
2130	3270, 3290	NBC	NAMIBIA	10/6	LM
2130	13745	VOIRIB	IRAN	-	HJS
2130	15255	R Sweden	SWEDEN	8/7	AMQ

2130	15550	KSDA AWR Asia	GUAM	5/6	HJS
2159	6040	VOA	USA	20/6	KAB
2200	7230	R Yugoslavia	YUGOSLAVIA	9/6	IC
2200	9675	RAI	ITALY	-	HJS
2200	9990	R Cairo	EGYPT	9/6	IC
2200	11900	RAI	ITALY	9/6	RP
2200	11955	BBCWS	UK	-	HJS
2200	15600	R Taipei Int	TAIWAN	5/6	HJS
2208	13640	VOT	TURKEY	-	HJS
2245	13625	AIR	INDIA	-	HJS
2300 - 2330	11915	WWBS	USA?	11/6	LMM



LEFT: The "Courier." RIGHT: Dr. Wilson Compton, Administrator of the U. S. International Information Administration, delivers an address on board the "Courier" while (from left to right) Roy D. Kohler, Director of The Voice of America, Howland H. Sargeant, Assistant Secretary of State, and George G. Herrick, Chief of VOA's Plans and Development Division, look on. High-ranking officials took part in two dedication ceremonies on board the ship.

2305 9600 Vatican Radio VATICAN CITY 15/6 IC

THE VOICE GOES TO SEA by Barry Williams

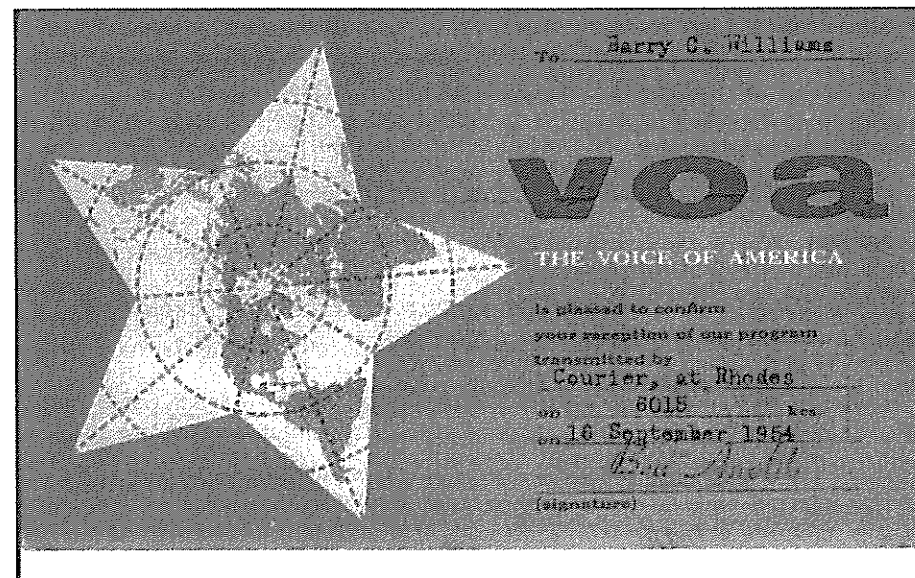
1952 saw the "USGC Courier", the first of a proposed flotilla of "Truth Transmitters" become a reality. The ship, Courier, filled with the most powerful marine transmitters of the time was designed with the special purpose of broadcasting "unbiased" information to behind the Iron Curtain, from the high seas and strategic harbours, during the height of the Cold War. Following her initial trip to Washington where President Truman dedicated the ship, the Courier had a shakedown cruise in the Caribbean. During this trip the Courier transmitted briefly from the Canal Zone giving some fortunate DXers the opportunity to log and verify that country. The ship was now ready for her task of covering areas beyond the reach of land-based transmitters and frustrate the Soviet jamming by operating as close as possible to target areas. The Courier, sailed for the island of Rhodes in Greece, where it commenced transmitting on September 7 1952.

From the hold of the 5000 ton vessel, a multi-tubed 150 kilowatt medium wave transmitter, three times the power of the largest American broadcast station at that time, threw voice broadcasts for 1600 kilometres. Two 35 kW shortwave transmitters and supporting communications equipment are also located in the hold of the converted navy cargo ship.

The floating transmitter usually relayed its programming from shore installations of friendly governments. Should the occasion demand however, the Courier could relay programs from the high seas by lifting an antenna skywards via captive helium inflated barrage balloon.

Commanded by Captain Oscar Wev, US Coastguard, the 338 foot vessel, was manned by a volunteer Coastguard crew of 80, including 10 radio officers. VOA engineers supervised the radio relay operations.

The Courier was constructed under a plan known as "Operation Vagabond". The project to build a number of sea-going transmitters was approved by the President in April 1951. The Courier's flight deck was for the launching of the barrage balloons. The ship carried



5 of these balloons 65 x 35 feet in size. A winch located under the flight deck, spooled the balloon cable up and down. A large compartment midships stored 150,000 cubic feet of helium for the balloons. Another hold contained diesel engines capable of generating 1,500,000 watts of power. The three transmitters were built on a platform of 8 inch thick concrete. The concrete "floated" on cork slabs which absorbed the ship's vibrations. Special announcements and original programs could be broadcast from a small studio and control centre located on the top deck.

On May 17th 1964, the VOA ceased transmitting from the "USS Courier", but continued from newly built onshore facilities on Rhodes. The Courier then returned to the USA for re-fitting.

What happened to the other proposed marine Truth Transmitters? To my knowledge, only one of the proposed flotilla was ever fitted out. Probably the VOA realised that they could cover the target areas from land bases. Not only was the VOA Courier well heard on shortwave, but its medium-wave outlet on 1259 kHz was one of the more regularly heard Europeans in New Zealand, during the early sixties.

Further research shows that the Courier was not the first American marine transmitter. The first took place off the coast of North Africa. The commander of the Western Task Force had a 5 kW MW transmitter installed on the "USS Texas". As the American invasion fleet approached its target on November 7th 1942, OWI-VOA personnel began transmitting in French on the frequency of Radio Rabat, 601 kHz. This station continued on air for some hours until the concussion from a salvo fired by the "Texas" put its own transmitter out of commission.

A second attempt by the VOA at seaborne broadcasting took place in 1945. A Greek vessel the "Phoenix" was commissioned for this purpose and its electronic cargo consisted of one MW and 2 SW transmitters. Test broadcasts were conducted off the US coast in 1945 and also in Far Eastern waters. But the ship was never used for regular broadcasting.

References: VOA Program schedule, July 1952, "VOA Relay Bases" by Adrian Peterson

The Beginning of Broadcast Regulation In The Twentieth Century

Book review by Richard A. D'Angelo

The Radio Act of August 13, 1912, provided for the licensing of radio operators and transmitting stations for nearly 15 years until the United States Congress passed the Radio Act of 1927. From 1921 to 1927, there were continual revisions and developments and these still serve as the basis for current broadcast regulation. Marvin Bensman's book, *The Beginning of Broadcast Regulation In The Twentieth Century*, chronicles that crucial six-year period of radio broadcasting in the United States using primary documents. There is an extensive section of notes, a bibliography and an index.

The journey begins with the administrative structure of the U. S. Department of Commerce and the personnel involved in the regulation of broadcasting. The book is arranged chronologically in five chapters: Chapter I - The Development of Radio Regulation; Chapter II - Broadcast Regulation and Policy from 1921 to 1924; Chapter III - Congestion and the Beginning of Regulatory Breakdown in 1924-25; Chapter IV - Regulatory Breakdown and the Passage of the Act of 1927; and Chapter V - Regulation Under the Act of 1927 which includes a discussion of the Department of Commerce divisions and their involvement until they were absorbed by the Federal Communication Commission.

Some interesting events chronicled in the book include broadcasting by the Bureau of Standards in 1920 when it pioneered an experimental radio market and crop report service on 485 meters. In 1923, the Bureau of Standards established radio station WWV in Beltsville, MD to transmit precise signals for frequency measurement to provide a means for broadcast stations to self-police themselves. The early age of DX'ing is covered when radio stations were encouraged to have silent periods in order for the general public to be able to hear more distant stations in other communities on the same frequency. One of the goals of silent periods was to see who could hear the farthest station. Silent nights in most communities were one of the few effective forms of self-regulation on the part of broadcasters during this early period of broadcasting. Another interesting event covered in the book was the battle with Zenith Radio Corporation and Commander MacDonald over broadcasting times and frequencies in 1926 prior to the passage of the Radio Act of 1927. The Zenith station, WJAZ, effectively became the first pirate broadcasting station. Zenith dressed its personnel as pirates in February 1926 to pose for promotional pictures and presented the operetta *The*

Pirate. They sent photos and a short story to newspapers to publicize the stunt. Finally, the role of Secretary of Commerce, Herbert Hoover, and his significant role in the development of radio regulations in the 1920's are covered. Essentially, the daily operations of the Bureau of Standards of the Department of Commerce through a trial and error process greatly influenced by the philosophy expressed and promoted by Hoover, who later became President Hoover just as the depression set in, helped shape the Act.

Marvin Bensman is a professor at the University of Memphis. He has taught such subjects as entertainment law and electronic media law for over thirty years. The author is the director of the university's radio program archive and has served two terms on the board of the national Broadcast Education Association. Much of the research that went into this book was conducted at the Herbert Hoover Presidential Library, the National Archives, and the Smithsonian Institution's Division of Electricity. The author began his research while a student at the University of Wisconsin in Madison. Research continued through a teaching career at the University of Vermont and the University of Memphis.

The Beginning of Broadcast Regulation In The Twentieth Century by Marvin R. Bensman is a 280 page, softbound (6 x 9 inch) book, without any illustrations. ISBN: 0-7864-0737-9. It is available direct from the publisher (McFarland & Co., Inc., Box 611, Jefferson, NC 28640) for US\$35 plus US\$4.00 shipping and handling in the United States and US\$6.00 elsewhere. Also, orders may be placed by telephone (1-800-253-2187) or FAX (1-336-246-5018) or through the publishers' website <http://www.mcfarlandpub.com>. Orders can be charged to VISA, MasterCard, AMEX, or Discover cards.

The Beginning of Broadcast Regulation In The Twentieth Century By Marvin R. Bensman does a very good job in presenting a feel for what the early days of broadcasting in the United States must have been like. It covers the very formative years where self-regulation by the industry was encouraged and nurtured through the policies and direction of Secretary of Commerce Hoover. The complete breakdown of self-regulation eventually led to the Radio Act of 1927. The book is clear, concise, extensively documented and well written. Students of early radio broadcast history will find this book to their liking.

BBC Auckland

Aucklanders are fortunate to have a 24 hour relay of the BBC World Service available on the local AM 1476 frequency. These broadcasts have had a chequered history as evidenced from the chronological history later in this article. All material in this article is taken from the new internet website of the Auckland Radio Trust — www.aucklandradiotrust.co.nz

The A.R.T. is a non-profit organisation that exists for the sole purpose of ensuring the continued broadcasting of the BBC World Service in Auckland. The Trust consists of 10 trustees including the Service Manager and "voice" of the station Vince Geddes, representatives of major sponsors Flight Centre and Hesketh Henry, playwright/author Roger Hall, the British Consul General and retired journalist Sir Terence (T.P) McLean.

The former Radio Hauraki AM 1476 transmitter site near Puketutu Island in the Manukau Harbour, not far from Auckland International Airport, is used to relay the BBC signal to some 30,000 regular listeners in the Auckland region.

The BBC signal is transmitted from the United Kingdom to NZ via a chain of two satellites and various terrestrial radio and cable links via North America. In Auckland, the signal enters a piece of Kiwi ingenuity: it is buffered in a FIFO (First-In-First-Out) buffer for the first 3

minutes or so of every hour, and is replayed in an unnoticeably accelerated format thereafter. This means that listeners enjoy a full hour of quality BBC World Service programming every hour, 24 hours a day. As a result of this 'compression', the first few minutes of each hour are available for advertising sponsors, whose contributions enable the broadcasts to stay on air. This system was developed in Auckland, and the software was written by Geoff Hitchcox in Christchurch.

The service is made possible by contributions and donations from listeners and the support of sponsors. The Trust relies on contributions from listeners to cover its budget, as the amount of advertising that can be broadcast at the beginning of every hour is very limited.

A History of BBC Rebroadcasting in Auckland

January 1991

Radio Enthusiast Ken Wikely and John Kitching secure the rights and the frequency to re-broadcast the BBC World Service. The station broadcasts during the Gulf War on 91.8FM but shuts down after the duo's company Satellite and Terrestrial are unable to obtain a permanent frequency.

November 1991

Auckland Businessman Alan Gibbs is the highest bidder for a frequency that is subsequently used to return the World Service to NZ airwaves. Mr Gibbs says he expects the station to be operational early in 1992.

March 1992

Alan Gibbs together with daughter Debbie Gibbs - former manager at Auckland University station bfm - relaunches the World Service in Auckland and Wellington. The main aim of the station was to claim at least 4% of the market, Auckland at the time having 23 local stations in one of the most competitive markets anywhere in the World.

October / November 1992

Lindsay Perigo launches a new Breakfast programme in which local News and Views are given greater coverage than in the previous year.

July 1994

Fears that the BBC World Service in Auckland could go off-air are confirmed when Alan Gibbs puts the station's frequencies and equipment up for sale.

December 1994

The Company is sold to Christchurch businessman David Henderson, who states his intention to increase local content and reduce BBC's programmes.

December 16th 1994

The BBC's programme feed from London is abruptly terminated, following the sale of the station. The BBC contract had been with the Gibbs' organisation, and no written agreement was in place between London and the new owners.

March 1995

The station is relaunched on 1386 kHz as Radio Liberty with the Voice of America (VOA) replacing the BBC as a source of programmes. This frequency was bought a year later

when Radio Liberty went off-air, and is now used by the Hindi Station "Radio Tarana".

October 6th 1995

The BBC World Service returns to the air in Auckland on 990 AM with no local content other than advertising. The station is owned by Worldwide Broadcasting, a company jointly owned by New Zealand interests and Chris Woodward, a businessman from Hong Kong.

Worldwide Broadcasting is eventually disposed of, along with 990kHz. The frequency is now used to broadcast Mandarin and Cantonese programmes, both local and from the BBC's Chinese Service. The station is owned by Mr Eric Liu. Mr Liu is a trustee of the A.R.T. and the A.R.T.'s English service on 1476 and the Chinese service on 990 have a strong working relationship.

Auckland International Airport, whose Airport Radio operates on 1476, offers the BBC World Service a home and transmitters are used for re-broadcasting.
End of 1998

Auckland International Airport disengages from running a radio station. The Auckland Radio Trust is formed and now uses the 1476kHz frequency to keep the BBC World Service on air in the Greater Auckland Region.

OPERATING ON THE ELF FREQUENCIES

by Steve Meynell MOAIR (partly sourced from Internet)

We never venture into the 'basement' of the radio spectrum, yet some amazing and unusual techniques are used down there to communicate with submerged submarines.

VLF signals (3 to 30 KHz) only penetrate water to depths of 10 feet. It would be dangerous for a submarine to cruising at this depth for long lengths of time, as it may be seen by a spy satellite; while receiving of messages.

To communicate with submarines down to about 330 feet or deeper, Extremely Low Frequency (ELF - 300 Hz to 3 KHz) system is therefore used. The antenna is huge at these frequencies. The US 'Austere ELF' system for example, has an antenna some 200 km (125 miles) in length strung above an efficient earth. ELF has two other disadvantages. It suffers from high QRN in that part of the spectrum and also has a very low data rate. The Austere system passes just one three letter group in 15 minutes. With three letters it would be possible to signal some 17,576 codes (26 letters by 26 letters by 26 letters = 17,576). ELF exists to tell the submarine to approach the surface and deploy a float or mast mounted antenna to receive an encrypted HF or satellite signal. The messages are sent in a self checking computerised code at very slow speed.

An example is the US Military TACAMO system of the 1980's (Take Charge and Move out) which is the main means the US used to contact deep submarines. This system uses aircraft equipped with a long trailing aerial of 2.5 miles and 100KW transmitter operating at ELF frequencies. These aircraft fly a randomised route to mislead any clandestines. When transmitting the aircraft banks into a tight circle. This makes the aerial to hang down vertically. This facilitates transmission. Afterwards it regains normal flight. The aircraft are of the Boeing 747 AWACS type.

As both sides in the cold war would agree: the system works ! Submarines can be contacted even at great depths. It makes our efforts with aerials look very small !!

NEW ZEALAND RADIO DX LEAGUE (Inc.)

The New Zealand Radio DX League (Inc.) is a non-profit organisation founded in 1948 with the main aim of promoting the hobby of Radio DXing. NZRDXL is a founding member of the *South Pacific Association of Radio Clubs (SPARC)*.

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Annual Membership:

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Australia/Pacific Islands - A\$35.00
Asia/North America - US\$30.00
Rest of World - US\$33.00

All overseas members get airmail delivery of the NZ DX Times magazine.

Club Stationery - Address all orders & enquiries to NZRDXL Stationery, 4 Kay Drive, Blockhouse Bay, Auckland.

Club Magazine:

The NZ DX Times, PO Box 3011, Auckland.
Published monthly. Registered publication.
ISSN 0110-3636.

editor@radiodx.com - Andy Gardner

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