



New Zealand DX Times

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<http://radiodx.com>



People's Radio in East Timor "Voice of Hope"

During the years of military occupation in East Timor, the East Timorese people were encouraged and informed by a clandestine mobile radio station, Radio Falintil.

In mid-December 1999, Radio Falintil became the first of East Timor's community radio stations when, with help from Australia's APHEDA - Union Aid Abroad and community broadcasters, Radio Voz de Esperanza, the Voice of Hope, began transmission in Dili. Funds raised in the community broadcasting People's Radio Appeal were used to establish the Dili station and a mobile station in Baucau.

Ironically, Radio Esperanza is located in the notorious former Dili headquarters of Indonesia's Kompassus interrogation and torture centre.

APHEDA, the overseas aid agency for Australian trade unionists, also assisted Radio Esperanza establish a second station in January, this time a mobile station in Baucau, East Timor's second largest city. When the third station in the network becomes available, it will be permanently stationed in Baucau, and the mobile station will move on to another town. The East Timorese have expressed the hope of eventually having a network of stations, so as to be able to reach all the population of East Timor.

The East Timorese people and their leadership through the coalition known as the National Council for Timorese Resistance (CNRT) considers a radio network as one of their priorities in rebuilding their country. Radio Esperanza currently broadcasts 16 hours a day, and their coverage includes news, feature stories, community service announcements, information on health and better agricultural techniques, broadcasts by East Timorese organisations and music.

Almost all the equipment in the two stations is second-hand; some of it donated by community radio stations in Australia including full time ethnic station 2000FM in Sydney. More equipment, however, is needed for the next several stations and also to provide a more powerful transmitter for the Dili station - its range at the moment is only about 30 kilometres.

Our thanks to listeners, programmers and stations who contributed to the People's Radio for East Timor Appeal - your contribution has made a difference! If you haven't already donated it's not too late to help bring community radio to all of East Timor. Donations from stations, programmers and listeners are very welcome. As the NEMBC becomes aware of what second hand equipment is required in East Timor we will circulate the list to all stations. If you can assist please do so

Contribution deadline for next issue is Wednesday April 5th - PO Box 3011, Auckland

How you can help

Make a tax-deductible donation to APHEDA. Mark it for the East Timor radio project, and send it off today.

Donate old cassette music tapes or CDs. Tastes are wide - anything from Mozart to Madonna, and remember, if you haven't listened to it in the past year, you will never miss it! Send donations to APHEDA, Trades Hall Box 3, 4 Goulburn St, Sydney NSW 2000, Australia. (via Bryan Clark)

talkback@radiodx.com *with David Ricquish, Wellington*

Ian Cattermole, Blenheim raises the issue of writing reports to Latin American stations, and potential for mail theft. He writes 'mail theft seems to be a topic that comes up from time to time, and Latin America is one of the regions frequently mentioned.

I wonder if really is as prevalent in this area as generally thought? Undoubtedly there is some, human nature being what it is, but I doubt it's as bad as reputed.

Latin America is a 'pet' area and I've sent 500+ reports to the region. Over the years, the odd report comes back undeliverable. The latest was Radio Caiari, Brazil sent in May 1999. If mail theft is common, I wouldn't expect to get reports sent back, after 8 months! This is my fourth return since last June, the others being two each from Brazil and Peru.'

(What do other members think? Is mail theft a problem in Latin America? We've sent parcels covered in stamps to Peru and every one is delivered within days!)

Ken Baird, Christchurch continues the South Island contributions this month with 'I've been working my way through radio-portal and found three good sites. These two give access to the websites of thousands of broadcasters and are very useful: www.ilgradio.de and www.transmitter.org/stations.html

Also found the site for DSWCI which has really good practical tips on aerials, feeders, earthing etc. Visit: www.nordicdx.com for details. It's worth checking each month, for special items. This month is MLBs, matching transformers etc and makes very interesting reading.'

Chris Martin, Brisbane notes that 2TM Tamworth (1287) has dropped country music much to local anger in Australia's Country Music Capital. The city may even lose the 'Country Music Awards' as a result.

Meanwhile, Christchurch has a new 24 hour country music outlet on 1593 with a relay of local FM 88Country being heard since the beginning of March.

Radio Bougainville, Papua New Guinea officially opened at Buka on February 29. AUSAID funds are used to repair and upgrade transmitters at Hutjena and Rabaul, and new studio facilities in Hutjena. 1000 solar-powered radios are being distributed to primary schools on the island to encourage listening. Full details: <http://pidp.ewc.hawaii.edu/pireport/2000/March/03-02-16.htm>

Radio Australia's Tok Pisin Radio broadcasts to Papua New Guinea are preparing for their 50th anniversary on September 16. For an excellent article by Ian Boden in Port Moresby, including details of 'famous 9PA' (remember them on 1250 with 2kW) and special programs on Radio Australia, check out: <http://pidp.ewc.hawaii.edu/pireport/2000/March/03-02-15.htm>

Radio Niue has a new GM in Shona Pitt (ex Director of Cook Islands TV) now that Hima Douglas has become an MP. The station is well-equipped and we'll be looking at adding

more local production to TV as well' says the full report at <http://pidp.ewc.hawaii.edu/PIReport/2000/February/02-18-19.htm>

Countries List is due for another change says Chris Martin, Brisbane. He reports that the former Irian Jaya province is now renamed Papua. With quite a few changes to world maps, and more to come (how long before Papua merges with Papua New Guinea?) perhaps an updated Countries List should be located at radiodx.com and members without Internet access could receive a free updated copy with their annual renewal.

I wonder how many members share my view that points should be brought back as part of the Countries List, and be required for all QSLs entered into the magazine? I think this would reintroduce an element of competition, with members points being updated monthly in a revamped Competitions section.

Jack Searle, Haumoana writes 'in the February Shortwave Mailbag, Barry Williams raises the question of counting (or not counting!) QSLs using the same frequency or transmitter site.

I simply can't see members deleting QSLs from their totals, or having to check through thousands of QSLs to see which ones would still be acceptable. The QSL rules clearly state that 'a change of ID or slogan, where slogans are used, is classed as a different QSL' and I believe this covers the situation where different broadcasters are using the same transmitter site or frequency.

A classic example is where Radio Denmark's broadcasts go out over Radio Norway's facilities within a minute of each other.

(Interesting point. The case of Radio Denmark is clearly that of another broadcaster using another site. But, if Radio Denmark changed its name to Radio Copenhagen, I suppose that comes under a change of slogan, and we all rush to relog the same transmitters and frequencies.

So, technically, Solid Gold Hits FM is a new QSL on 1260 in Christchurch. It's the same transmitter, same frequency, maybe even 3XA still, but because a new station format is broadcast, with a new slogan, it falls within the rules. I wonder if the rules were designed with changes of format or, more broadly, ownership, in mind? How do we deal with transmitters now owned by a 'tower' company, and simply rented out to anyone who pays for time? 24 broadcasters each with 60 minutes on the same transmitter = 24 separate QSLs?

Now, a reminder of other issues raised recently and open for comment: what's your story of the longest time it took a QSL to reach you; what are your current DX targets (eg: mine is to reach 100 QSLs from the Pacific on MW); your experience with e-mail reports and e-mail QSLs; QRM from Sky Digital TV satellite systems (maybe the Saturn/Telstra cable deal for Auckland and Christchurch will reduce dish installations); daytime DX on MW; and of course, a reminder that introductions are very welcome! Tell us about yourself, where you DX, what you enjoy about the hobby etc.

More Pacific news from Radio Tahiti which has radio and TV services currently restricted by a staff strike in protest at the imposition of a 35 hour working week. Full details: www.uq.oz.au/jm/coco/tv3.html

The same site has news about Marie-Claude Tjibaou (widow of assassinated New Caledonian independence leader) being appointed to the RFO Board in Paris. Another New Caledonian, Walles Kotra, is the new Director of International Relations at RFO and driving force behind the RFO Regional Satellite TV initiative www.pim.com.fj/current/index.html)

South Pacific DX Report continues this month. Hear Paul Ormandy every second Sunday at 8:30pm on David Miller's NUU Country program on 4XS Hills AM 1575 Dunedin; and during Jazz Jottings every second Saturday at 4:15pm on 2YB Access Radio 783 Wellington. Discussions are currently underway to extend the program for DXers in Auckland and Christchurch.

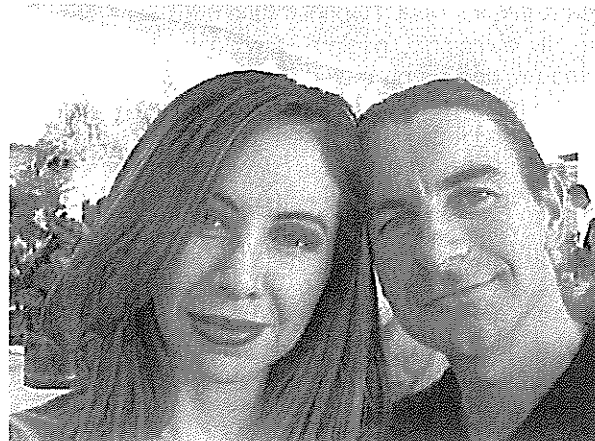
Contact the Wellington community newspaper, which with 170,000 readers is the country's third largest paper recently ran an article on South Pacific DX Report and our website. More good publicity for the hobby.

This month, my station of the month is the Trito Program (3rd), Cyprus Broadcasting Corporation. Broadcasting 24 hours in Greek from Nicosia, the station uses mainly FM as well as 603 and 1044 MW. For those who've been watching the BBC series 'Sunburn' on TV1 recently, you'll appreciate what a beautiful island Cyprus is, and you'll enjoy great Greek music at www//media-spidernet.net/cybc3-live.ra so grab some fetta, black olives and a bottle of ouzo and visit Cyprus without the jetlag! Enjoy! Ciao.

editorial@radiodx.com with Andy Gardner, Mexico

The column this month is going to be a little longer than usual. Most months, I have to keep it short due to space constraints, but this month I've got almost a whole empty page to fill, so I get a chance to splash out. It's good timing, too as I have a very important (for me, anyway) announcement to make.

The DX Times has always been a good source of useful information so remember that you read it here first - yes indeedie doodie, Andy is getting married! Ana Lilia is gorgeous, and Mexican and that means fluent in Spanish, so ID'ing Latin stations will not be a problem in the future - but that's not the main reason I'm marrying her - honest! For those of you interested in more details, please visit the website <http://engaged.to/ana> for photos and the opportunity to sign our engagement guest book.



So it looks like my immediate future involves residency in Mexico. As land here is ridiculously cheap and plentiful, I can see my dreams of a large beverage site coming to fruition pretty soon, so the DXpeditioners among you had better start saving your pennies for the airfare. Whenever I'm out travelling, I'm continuously looking at large empty tracts of land and quickly evaluating them as potential radio listening locations. I've been wondering what I should call the site when I finally get it?

Waianakarua has a nice ring to it - I wonder what that means in espanol? My guess would be "place where radio conditions deteriorate rapidly whenever Bryan Clark arrives". Hmmm.

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

Welcome to the March edition! All times in UTC and frequencies in kiloHertz (kHz). Sources this month: DXLD — Glenn Hauser's DX Listening Digest; BCDX - Worldwide DX Club Top News, edited by Wolfgang Bueschel; Cumbre - Cumbre DX (items marked "copyright" cannot be used without permission). A new broadcasting season kicks in on March 26 - look for lots of changes to summer schedules by northern hemisphere broadcasters.

Afghanistan 7072v Voice of Sharia. Here's a translation of a Russian news report concerning the Russian broadcasts from Afghanistan. Afghan Radio used to have a Russian service before the Taliban movement came to power. "The Taliban is to start propaganda broadcasts in Russian. The Afgan movement Taliban, not officially recognized by any state in the world, is preparing for an information war with Russia. According to the sources in Dushanbe (the capital of Tajikistan), the Taliban has entrusted their radio station "Sadoj Shariat" ("The Voice of Sharia") with a task of conducting a series of propaganda actions aimed at discrediting the policy of the Russian leadership in Asia and Caucasus. The first Russian broadcast (of "The Voice of Sharia") will go on the air on March 7th. Afterwards, the programs will be aired daily on medium and short waves, in the 41-meter band. This Afghan radio station is considered to be one of the most powerful in the region. Currently it broadcasts in English, Uzbek, Turkmen, Urdu, Pushtu, and Dari." (The report of the Russian news agency "RosBiznesKonsalting" from March 6 via Sosedkin, Cumbre) And you can hear it for yourself: 7073 Voice of Shari'ah open the English program at 1500 with song in English "Afghanistan ... Afghanistan..." then ID by man as "This is The Voice of Shari'ah, English Service of Afghanistan", then continued with the song and "You listening our English program on 1107 kHz and 7000 in SW", then time in GMT was given. Much better audio on that day (Mahendra Vaghjee, Feb 21 BCDX)

Brazil R Nacional da Amazonia Brasilia was heard back on air this morning at 0735 tune in on 6180. A booming S9+20dB at first, so it seems all is well with the transmitter once again. Was playing Brazilian music and announcing "Bom dia Amazonia"(Green, Feb 26 BCDX) I read somewhere that's not a technical matter on the studio or transmitter side. They are a reshuffling procedure on their ownership from the Brazilian so-called Telecom authorities to another organization (Bueschel, Feb 29 BCDX)

Cambodia National Radio of Cambodia Overseas Service continues according to schedule (including English 0000-0015, 1200-1215 -BBCM), but 1360 MW appears to be inactive. Even in Phnom Penh groundwave reception of 11940v is poor, being the sum total of old studio equipment, a poor studio-transmitter (cable) link and an old, poorly maintained transmitter at Stung Mean Chey, 7 km SW of Phnom Penh. The 1200 broadcast suffers from heavy QRM — also in Phnom Penh! - by BBC Singapore in Chinese on 11945, a rather unfortunate move by the BBC. Correct address: Overseas Service, National Radio of Cambodia, Rukhak Viithei Phrea Kossamak (Street 106), Phnom Penh. NRC started "FM-96", a commercial service of Phnom Penh, early this year. BBC WS is on 100.0 MHz, but the sat-fed facility badly needs realignment (Maarten Van Delft via Dave Kenny, March BDXC-UK Communication via DXLD)

Egypt Radio Cairo schedule: 0030-0130 9900 Arabic; 0045-0200 9475, 9740, 11715 Spanish; 0200-0330 9475 English; 0200-0000 12050 General Program (Arabic); 0200-2200 9755 Holy Quran; 0300-0600 9855 Voice of the Arabs (Arabic); 0300-0030 15285 Voice of the Arabs; 0350-0700 9620, 9770, 9800 General Program; 0600-1400 11980 Voice of the

Arabs; 0700-1100 15115 General Program; 0700-1400 15475 General Program; 0700-1500 11785 General Program; 1015-1215 17745 Arabic; 1100-0000 9850 General Program; 1100-1130 17800 Arabic; 1115-1215 17770 Thai; 1215-1330 17595 English; 1215-1315 17770 Malay; 1300-1900 17670 General Program; 1300-1330 15160 Persian; 1320-1450 17770 Indonesian; 1330-1430 17595 Bengali; 1330-1530 11560 Persian; 1300-1600 15220 Arabic; 1500-1600 17690 Hindi; 1500-1600 17710 Pashto; 1500-1530 9780 Azeri; 1530-1630 9620 Uzbek; 1530-1630 15155 Afar; 1530-1730 11975 Swahili; 1600-1800 Urdu; 1600-1645 11875 Zulu; 1600-1800 6230 Turkish; 1630-1730 15155 Somali; 1630-8130 15255 English; 1645-1730 11875 Shona; 1600-1800 9950 Albanian; 1730-1815 11875 Indebele; 1730-1900 15155 Amharic; 1800-0030 9700 Voice of the Arabs; 1800-1900 6120 Russian; 1800-1900 9988 Italian; 1800-2100 15210 Hausa; 1900-2000 9990 German; 1900-0030 11665 Voice of the Arabs; 1930-2030 17840 Fulani; 1930-2030 15375 Bambara; 2000-2200 11980 Arabic; 2000-2115 9990 French; 2030-2200 15375 English; 2030-2230 15335 French; 2100-2200 15210 Yoruba; 2115-2245 9990 English; 2215-2330 15420 Portuguese; 2300-0030 9900 English; 2330-0045 15590 Arabic; 2330-0045 17770 Arabic. (Radio Cairo direct)

Germany Croatian Radio via Juelich for A00: 9925 2300-0059, 9925 0100-0259, 9925 0300-0459, 9470 0500-0659, 13820 0700-0859, 11805 2000-2059. (DTK sked via BCDX) Trans World Radio via Juelich: 6045 0645-0850 Sat, 6045 0645-0820 Fri, 6045 0655-0820 Sun-Thu, 9490 1230-1245 Sun-Thu, 9490 1230-1300 Fri-Sat, 7260 1600-1645 Sat, 7260 1630-1645 Sun/Fri (DTK sked via BCDX) Radio Television Belge de la Communaute Francaise (RTBF) via Juelich 9490 0300-0459 Mon-Fri, 9490 0430-0459 Sat/Sun, 17580 0500-0712 Mon-Fri, 17580 0500-0959 Sat, 17580 0500-0806 Sun, 21565 1000-1206 Mon-Fri, 21565 1000-1117 Sat, 21565 1100-1117 Sun, 17570 1500-1712 Sun-Fri, 17570 1600-1712 Sat (DTK sked via BCDX)

Indonesia 5046.4 RRI Yogyakarta has reactivated and been heard on various days on this frequency (Francis)

Liberia Radio Liberia International 5100 Back here at 2300 on Feb 18, had been on 5000 the previous day per Pennington of the British DX Club. Please note that 5000 is the frequency that they started out on when they first came on in July 1996 (Johnson, Cumbre) Note also the return on 4760 of ELWA as heard during mid-February by many reporters 0600-0730. Address for reports: SIM Liberia, 08 BP 886, Abidjan 08, Cote d'Ivoire (Francis) ELWA, 4760 was subject of long interview with Cordell Hogan, formerly of Liberia, now at HCJB's transmitter manufacturing facility in Elkhart, Indiana. He installed the antennas which consist of 4 inverted V dipoles, broad beam with main lobe at 57 degrees. The transmitter and the power supply were also new designs, brought into the country in one suitcase each (HCJB DX Partyline Feb 26 via DXLD)

Mexico DX programs on Mexican stations: Three of the four currently active Mexican SW stations include DX programs in their schedules. There are also a couple of programs on MW that talk about radio, without becoming DX programs, not mentioned here due to their local or regional coverage at best. XEPPM-OC Radio Education Their program is titled "Entre Medios" [Among Media], a very nice show with the special characteristic of being hosted only by women. They present a variety of themes with their own commentaries on radio, its development, technical matters and problems, and the development of telecommunications. It's easily digested in 30 minutes. There are also interviews and phone calls on the air, reading correspondence and reception reports. You can hear it every UT Thursday at 0430, repeated Fridays 0630, Wednesdays 0230. These are the times best heard here [so are there more? gh]. Don't forget to request a QSL card which this year are on archaeological

themes. Frequency is 6185, and if you can hear it outside Mexico, also MW 1060. XEPPM-OC, A. P. 21-940, 04021 Mexico, DF. XEOI Radio Mil Belonging to the Nucleo Radio Mil group, thanks to the efforts of two great friends, Dr. Julian Santiago Diez de Bonilla and Engineer Hector Garcia Bojorge (always assisted by the restless Alejandro Morales), have made possible a new DX show on this important station which retransmits its AM programs on SW. A couple of months ago their "Encuentro DX" program began, after a few weeks of testing. We invite everyone to assist this new DX program, sending reports, comments and input. The best heard time is 0330 UT Mondays, or 9:30 pm Sundays Central Mexico Time. The broadcast that is recorded goes out every (UT presumably) Thursday at 0500, repeated Fridays 1700, Saturdays 0000, 1430 and 2200, and Sundays 0230, 1500, Mondays 0000. There are lots of repeats, so with luck you should hear some of them. Radio Mil transmits on 6010 SW and 1000 MW. Send correspondence to: Radio Mil (onda corta), A.P. 21-1000, 04021 Mexico, DF. Nor neglect to ask for their pretty QSL card, the first the station has issued in half a century. XERMX-OC Radio Mexico Internacional is another SW station which has a DX program, called "Estacion DX". It is conducted by our friend Juan Jose Miroz L., who besides being a DXer, is a ham who can be contacted on the bands. This program airs every Wednesday at 0300, repeated Saturdays 2100, Mondays 0300. A new QSL card came out a few months ago, so don't delay in sending your reports in order to receive it. Write to them at: Radio Mexico Internacional, A.P. 21-300, 04021 Mexico, DF. Tel. 5604-7846 and 5628-1720. E-mail: rmi@eudoramail.com URL: <http://hello.to/rmi> Regarding the other SW stations: We do not know if R. Huayacocotla has a DX section, but their directress indicates they have not. Radio UNAM, inactive currently due to the strike, has no such program either. XERTA, Radio Transcontinental de America is inactive at the moment readjusting its transmitter, antenna and programming (Ivan Lopez Alegria, Azilan, Jan-Feb, Nayariit DX Club, Tepic, translated by Glenn Hauser for DXLD)

New Zealand RNZI from 19 March: 1650-1755 11695 Mon-Fri, 1755-0705 17675 Mon-Fri, 1850-0705 17675 Sat-Sun, 0705-1205 15115 Daily (RNZI)

Papua New Guinea Radio Bougainville 3325 returns, per this report from 'The National' newspaper in Port Moresby: Radio Bougainville is now able to broadcast across the entire province for the first time since the crisis erupted on the island. Australian High Commissioner Nick Warner officially opened Radio Bougainville in Buka on Wednesday last week. The Australian Government, through its aid agency AusAID, committed K3 million to the repairs and upgrading of radio transmitters in Hutjena and Rabaul, along with the supply of broadcasting and other equipment. "Radio Bougainville has and will continue to play a key role in getting clear and accurate information to the people around the province. It provides Bougainvilleans with a chance to hear what's going on in respect of the peace process and restoration activities, what's going on in respect of Bougainville, the rest of PNG and of course, the rest of the world," Mr Warner said. To further facilitate access to Radio Bougainville broadcasts, Mr Warner also announced that the Australian Government would provide 1,000 solar powered wind-up radios. These will be distributed to primary schools across the province by mid year. ('The National', 28 Feb). And heard here in Canberra with sign-off at 1200, with reference to SW transmitter on Buka Island (3325) and FM 100.1 (Francis)

United Kingdom Radio Free London has suspended its short-wave service for the time being after an act of vandalism at our site. There have been a number of strange happenings and attacks at the short-wave site over the past year with little idea who is behind them as very little or no damage was done to the transmitter. Other strange happenings

have been the pulling up of buried mains cable and aerial coax, which only four members of RFL staff knew were buried. (RFL source) Was being heard in the Pacific quite regularly on 15060, but another of these stations done more for the benefit of hack broadcasters than their audience (Francis)

USA WBCQ-2 started up on the 21st [Feb-ed.] with the Christian Media network running 8am-5pm [EST; 1300-2200 UT]. Transmitter blew its power supply the 22nd. Off air 22nd and 23rd. Back Mon the 24th. On the 28th Christian Media Network moved to 5pm-2am eastern [2200-0700 UT]. All running well. Weekends are still unsold and I am trying to find some alternative radio folks to take the time. I am only charging \$20 per hour in a bulk time (4-6 hour blocks) so hopefully I can get some good radio people on the air for the weekends. (Al Weiner, WBCQ in DXLD)

Vanuatu Radio Vanuatu will soon reactivate 7260 kHz with 10 kW, or may already have done so. This frequency will be used at 2100-0500. At 0500-1115 and 1900-2100 either 3945 or 4960 will be used. Two years ago the station started "Tude FM" (Today FM) on 98.0 MHz, only for Port Vila, at 1900-0700, After 0700, the FM outlet carries the same programme as on SW and 1125 MW. Radio Vanuatu belongs to VBTC (Vanuatu Broadcasting & TV Corp.) and has this E-mail address: vbtnews@vanuatu.com.vu. In Port Vila, BBC WS and France-Inter are heard around the clock on 99.0 and 100.0 MHz respectively (Maarten Van Delft, via Dave Kenny, March BDXC-UK Communication via DXLD)

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

Well after a great break in Brisbane I'm gearing up for the Autumn/Winter DXing. Hopefully there will be plenty around to log. First up this Month is our South Australian Member Leigh Morris Who has logged twenty-eight on a DX-pedition to Long Point South Australia and has Replies in from Radio Flamingo via SWRS 11470, Radio Maryja Poland via Samara 12010 and Radio Fana Ethiopia 6940. There should be plenty next Month Leigh.

Ian Cattermole Blenheim Has another large list in. Voice of Russia Via Yerevan 11510 [em] REE 17850,12035, Radio Canada International via wofferton 11710, Radio for Peace International 25930, Radio Deutsche Welle Sines 9725, Julich 6140, Sackville 9535, Radio Rio Mar 6160, WHRA 7385, 17650, NHK Gabon 12030, Yamata 12000, 17875, Radio New Zealand 17690, Voice of Sudan 9517 [em], HCJB 9780, Radio Maryja 12010, All India Radio 15020, Radio Romania 21480, 17720, KSDA 15725, Radio Algeria 7245, Radio Transmundial 11705, Radio Oman 11805, Radio Hrvatska Julich 13820, 11880 [em], Que Huong Radio 17510, WSHB 9860, Once again a great list Ian.

Arthur de Maine Wellington Has 5 out and one Reply Radio Nederlands via Russia.

Jack Searle Haumoana Has them back from Que Huong Radio 17510 via KWHR, Radio Maryja 12010 via Samara, Voice of Russia via Irkutsk 17570, Radio Exterior de Espana 21610, Radio for Peace International 15050, WSHB 18910 in 378 days.

Paul Peacock Blenheim Has Radio Vlaanderen 11980, Radio Canada Sackville 9670, Voice of Hope 5975 via Julich, VOIRIB Iran 15084 with numerous publications and station stickers.

Best of Month

Under 9MHz - Radio Algeria 7245 100kw Ian Cattermole. Over 9Mhz - Voice of Sudan 9517 Ian Cattermole.



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. Also, would you please add the date of logging to your information.

KHz UTC Country, Station, Programme, & Reception Details

- 2850 0936 NTH KOREA?? KCBS fair with prgm of music, choir singing etc — KVB 12/2
- 3290 1540 CHINA?? CPBS?? Fr in CC w/ mx & male announcer, steady QRN - CC 17/2
- 3315 1530 INDIA, AIR gd in EE, time pips, nx. Some QRN//3223 much weaker - CC 17/2
- 3325 0902 PNG, R Bougainville fr/mod EE/Pidgin w/ NBC & local nx, ID 0912 - KVB 12/2
- 3380 1945 MALAWI, Malawi BC with hip-hop music with announcements in vernac, ID in Ee at 2000 then EE news — LM 29/2
- 3915 1619 SINGAPORE, BBC WS good in EE with pop music prgm, stronger than 2/2 // 7160 & 9740 as good — CC 17/2
- 1656 SINGAPORE, BBC WS fair in EE with talk about BT expansion — CC 2/2
- 3976 1601 INDONESIA?? RRI?? Gd, unid lang with refer. to Indonesia, then mx - CC 17/2
- 3985 1650 STH KOREA?? Echo of Hope (tent) poor but improved in Korean with some EE songs, world news and long item about China, possible ID 1700 — KVB 20/2
- 4534.2 1130 PERU, R Horizonte weak but readable with lots of non stop Peruvian music, canned announcements at 1143 — IC 16/2
- 4760 0656 LIBERIA, Radio ELWA fair in EE with relig prgm, IDs 0701, 0722. There most nights but very weak. — BML 16/2
- 4782 1030 ECUADOR, R Oriental fair in Spanish with good IDs — IC 16/2
- 4785.1 0855 BRAZIL, R Caiari fair in PP, interesting sound effects w/ IDs 0925 - BML 14/2
- 4789.2 0912 INDONESIA, RRI Fak Fak with call to prayer, good signal — DN 6/2
- 4800 1730 INDIA, AIR good in EE with ID and news — CC 2/2
- 4825 1815 BRAZIL, R Cancao Nova good in Portuguese — IC 21/2
- 4830 1000 VENEZUELA, R tachira good in Spanish with nice songs and IDs — IC 16/2
- 4855 1010 BOLIVIA, R Centenario fair in Spanish with ute QRM — IC 16/2
- 4915 0801 BRAZIL, R Anhanguera with full ID good but strangely not in // 11830 which was another Brazilian stn — DN 7/2
- 5046.4 1156 INDONESIA, RRI yogyakarta re-activated poor with ID 1158, song of coconut islands then Central Jakarta News Relay at 1200 — LM 29/2
- 5070 0630 USA, WWCR good in EE with relig prgm, clear ID at 0638 and 0700 — RP 24/1
- 5085 0700 USA, WGTG good in EE with talk back prgm, host Mark — RP 29/1
- 5090 1721 CHINA, CPBS Beijing good in Chinese with western style music — KVB 23/2
- 5145 1015 CHINA, CRI v good in Russian — IC 16/2
- 5500 1738 ETHIOPIA, V of Tigray fair/good // 6315 not as good — IC 8/2
- 5915 1733 SLOVAKIA, R Slovakia Intl gd in EE w/ nx //6055//7345 not so clear - CC 21/2
- 5930 1820 CZECH REP, R Prague with Talking Point in EE, fair // 7315 better, ID 1825 — KAB
- 6015 0544 AUSTRIA, R Austria Intl good in EE with music // 6155, 13730 as good, 15410,

17870 weaker — CC 27/2

6045 0600 CANADA, RCI good in EE on this new freq. — IC 31/1

6055 0540 SPAIN, REE good in EE with Radio Club — KAB 14/2

6065 0600 SWEDEN, R Sweden P1 in Swedish, fair with ID and news at 0600 — KAB 2/2

6080 0820 BRAZIL, R Novas de Paz excellent in Portuguese //9515 also excellent - IC 21/2

6110 0515 CANADA, R Japan fair with Hello From Tokyo // 7230 poor — KAB 12/2

6140 1646 GERMANY, DW good in EE with ID and Sports news, a little noisy — CC 11/2

6150 0746 COSTA RICA, University N/W with Dr Gene Scott in EE poor with long sermons, Ph No. and web site on 18th — PRP# 18/2

6155 0530 AUSTRIA, ORF Austria fair in EE with news, very interesting at the moment — KAB 12/2

6160 0906 ANTIGUA, DW good in EE with talk about Kosovo // 17820 from Sri Lanka weaker, ID 0908 — CC 24/2

6170 0825 BRAZIL, R Cultura v good in Portuguese — IC 29/1

6185 0730 MEXICO, R Educacion gd in SS with music and ID at 0815 — RP 6/2

0855 CHINA, CHBC opens w/ CC/EE IDs, sev co-channel QRM frn Mexican - IC 11/2

6295 1743 NETHERLANDS, R Spaceman in EE with pops and ID, phone number - KB 28/2

6890 0630 USA, WGTG v good in EE, talk back, ID 0630 with web site details - RP 22/1

7150 0700 CIS, V of Med good in EE but fading with Malta news, EE off at 0730 — RP 5/2

7150 0720 ??? UNID with news comment on Pinochet etc, ends 0727. Station seeks feed-back, fair — EM 24/1

7180 0555 CIS, V of Russia v good, EE, comm. on Russian poet Boris Pasternak - KAB 2/2

7184 1840 BANGLADESH, B Betar in EE, "National Service of Bangladesh Radio" - DN 5/2

7190 1810 BANGLADESH, B Betar fair in EE with comment and typical music, Moslem gathering. Many mentions of Bangladesh — KAB 1/2

1945 IRAN, VOIRI poor/fair with EE ending at 2027 // 9022.1, 11765 — BML 11/2

7200 1700 SUDAN, Sudan Natl BC Omdurman poor/fair with EE best after 1730, address and schedule at 1758 — BML 3/2

7230 0540 UK, R Japan v good in EE with Asian Watch — KAB 2/2

0834 ITALY, AWR Flori weak but clear in Italian. Chinese station on at 0855 swamps this - IC 15/2

7250 0640 VATICAN, Vatican Radio v good with Latin Mass — EM 24/1

7260 0340 CIS, V of Vietnam fair in EE with local news and comment, ID at 0357 - KAB 2/2

0735 VANUATU, R Vanuatu good in Bislama and eth. Music. Changed freq to 4960 at 0745 (good) — KVB 5/2

7265 0658 GERMANY, Sud West Rundfunk Stuttgart good with Australian tennis - EM 22/1

7275 1900 STH KOREA, RKI with IS, ID, news in EE, severe QRM — KAB 21/2

7295 1820 MALAYSIA, R Malaysia Intl w/ light pop mx in EE, fr w/ QRM, ID 1831 - KAB 16/2

7410 1807 INDIA, AIR Bangalore fair with Asian news in EE, ID 1810, 1815 — KAB 16/2

7435 0600 USA, WHRI good in EE with relig prgm, ID and address given 0557 with DX prgm at 0600 — RP 29/1

0803 USA, WHRI with Southern gospel music, good — PRP# 4/2

7440 2000 RUSSIA, V of Med Malta fair with EE hour — BML 14/2

7510 0530 USA, KTBN poor in EE with relig prgm — KAB 12/2

7560 1730 GUAM, KSDA excellent in EE — IC 8/2

Thanks to all the contributors for this month. Bill McLeod's Liberia, ELWA at 1000 watts into an inverted "V" would have to be the logging of the month - well done Bill. 73's, Ken Baird

CONTRIBUTORS FOR THIS MONTH

BML - Bill McLeod, Christchurch, NRD 545, 60m wire, 12m vertical: 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 : EM — Evan Murray, Auckland, R5000, T2FD and occasional Sony 2001D : IC — Ian Cattermole, Blenheim, JRC NRD 545, 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 : KB — Keith Brookshaw, Reefton, SPR4, longwire : LM — Leigh Morris, Long Point, Sth Australia, AOR 7030, R8A, longwires/Beveridges : PRP — Paul Peacock, Blenheim, Sony 6800, SW Listener : RP — Robert Park, Lower Hutt, R1000, 40ft longwire.

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

bandwatch.over9@radiodx.com with Andy McQueen

Greetings from Trentham and congratulations to Russell Coutts and the crew of Team New Zealand for retaining the America's Cup. What is the Trentham connection? Well a little known fact is that Russell Coutts grew up here in Trentham and went to Brentwood School just across the road from where I live. There is no shortage of wind down here so perhaps next time the yacht races should be held around Wellington?

A special welcome to new contributor George Muzyka from Auckland, the editor of the Timeorder section of The DX Times. All times are UTC

KHZ TIME COUNTRY STATION & PGM DETAILS INITIALS

6015 0630 AUSTRIA R Austria Int With EE news items, temperatures and ID 20/2 AD (This is a relay via Sackville Canada — This is also the wrong end of the bandwatch - Ed)

9335 11540 NORTH KOREA R Pyongyang V/good in EE for an hour // 11710.1 23/2 BML

9335.2 1913 NORTH KOREA R Pyongyang Good signal in EE but poor copy 21/2 HJS

9370 0630 USA WTJC Good in EE Music pgm Clear Id with address at 0705 30/1 #RP

9375 1920 GREECE V of Greece Tentative Poor in EE HJS

9385 1450 GUAM KSDA Good in EE with Network Seven pgm AWR Id and KSDA Id at S/off 1500 25/2 #AMQ (My report sent by email via awr.org Internet site with QSL back today 7/3 — Ed)

9515 2015 GUAM KSDA Fair in Korean / 9370 15/2 IC

9535 2038 THAILAND R Thailand Good in EE with talk about Thai cultural festivals and other Thai news 13/2 CC

9565 0600 GERMANY D/Welle Wertachel V/good in EE S/ on and I/sig at 0600 News then Weekend Review 24/1 #RP

9570 0854 SOUTH KOREA RKI Good in EE with quiz and Id // 13670 weaker 24/2 CC

9600 2030 MOROCCO VOA Relay V/good in Serbian EE announcements at 2030 6/2 #RP

9605 0259 VATICAN CITY Vatican Radio Fair to good with religious pgm in EE 20/2 AD

9615 0805 ALASKA KNLS Poor, EE w/ pgm 'Eye on the World' on info technology 9/2 #PRP

9645 1650 SRI LANKA VOA Relay V/good signal with short fades due to QRM from un-

known station underneath possibly Vatican Radio Pgm Press Conference USA AMQ

9655 0500 MORROCO VOA Relay Good in Arabic TTS

9655 1748 AUSTRIA ORF R Austria Int. Political crisis discussion //6155/13710 2/2 CC

9660 0500 VATICAN CITY Vatican Radio Fair with African news in EE. Id as "You are listening to Broadcasting from the Vatican" TTS

9670 0600 CANADA RCI Fair in EE News, 'Arts in Canada' Clear id Some QRM 30/1 #RP

0609 Good in EE to Africa with replacement pgm due to ongoing strike 2/2 #PRP

9680 1930 Unknown location VOA Strong in Albanian HJS

9680 2127 SPAIN REE Good in EE with soccer results, weather, news headlines 20/2 AD

9690 0334 SPAIN CRI Relay Good in EE to Nth America with CC pop songs 2/2 #PRP

9720 1500 MONGOLIA V of Mongolia Poor in EE closes 1525 23/2 BML

9725 2000 PORTUGAL D/Welle Sines relay Good in EE with News Sports and Affairs with Id at 2016 22/1 #RP

9785 1945 GERMANY VOA Lamperthiem relay Fair in special EE. Lots of QRM, Nx 1/2 #RP

9810 0400 UKRAINE R Ukraine Int Vgd, 1 hour EE pgm Full sked at 0458 //9600 24/2 BML

9840 1945 ? VOA V/good in EE with Border Crossings music request pgm 2/2 #RP

9845 0800 USA WSHB Excellent in EE with Bible reading & comment 6/2 #RP

9870 0720 ECUADOR HCJB Good in EE with DX Partyline 19/2 AD

9870 1630 SOUTH KOREA RKI Fair in EE, YL announcer, mx. ID 1637 A little distorted 11/2 CC

9870 1820 SAUDI ARABIA BSKSA Good in AA to Europe Some QRM 9/2 IC

9900 2116 EGYPT R Cairo Fair in EE with frequency list Id and Main news items 19/2 AD

11510 1900 RUSSIA ? VORWS Fair in EE with some fading News and current affairs 5/2 #RP

11590 0855 CHINA CHBC (China Hua-yi BC Corp) Good opening with Chinese and EE Ids "This is CHBC China Hua —yi Broadcasting Corporation" 11/2 IC

0855 Sign on with EE Id then time pips and easy listening music 19/2 #RP

11600 0300 SEYCHELLES FEBA Gd sig in Farsi? With clear I/sig several times at S/on 0300 talk pgm 31/1 #RP

11615 1718 FRANCE RFI Strng, EE with discussion on origins of Aids.//15210 weaker 3/2 CC

11620 1900 INDIA AIR Good in EE with slight interference. News then Id 19/2 AD

11665 0300 FINLAND YLE R Finland Fair in EE, nx then 'Starting Finnish'. EE ends 0330 4/2 RP

11690 1704 JORDAN R Jordan Good in EE News about Jordan 2/2 and 21/2 CC

11710 0205 ARGENTINA RAE Fair in EE with some fading YL announcer gave frequencies Id and address 22/2 AD

11715 2045 INDIA AIR Fair in EE with squeal on freq News then clear Id as AIR overseas service 2052 24/1 #RP

2122 Good in EE with listeners letters 21/2 AD

11730 0901 CHINA CRI Good in EE with News // 15210 as good 24/2 CC

11740 0215 TAIWAN R Taipei Int, fr, EE, slight interfer., weather, talk abt education 22/2 AD

11750 0300 NETHERLANDS ANTILLIES D/Welle Fair sig with Id and I/sig at 0300 News and Current Affairs 29/1 #RP

11750 0700 ECUADOR HCJB Excellent signal in EE with usual pgm of religious pgm with Good Id at 0729 22/1 #RP

11775 0630 ROMANIA RRI V/good in EE with News and comments 5/2 #RP

11795 0400 CANADA? RCI Fair sig, nx, weather & sport, ID as 'Africa Sce' at 0428 RP 27/1

11795 0500 NETHERLANDS ANTILLIES D/Welle Fair signal in EE with news then Newslink hosted by Mark Caldwell 29/1 #RP

11825 0515 PHILIPPINES VOA relay V/good signal News sports. SWL pgm at 0535 5/2 #RP

11830 0640 ROMANIA R Romania Int In EE with DX Mailbag pgm mentioning a Mr Steer from New Plymouth 20/2 AD

11865 0215 CANADA RCI Poor to fair in EE with interview with woman about films 21/2 AD (W hat type of films ? Not naughty ones I hope !! — Ed) 0239 Fair in EE with Mapleleaf Mailbag and offering free email service // 9535 weak with QRM // 9755 weak and other // 9780 not heard 28/2 AMQ

11865 2200 SRI LANKA D/Welle Trincomalee relay Excellent sig, opening in Indonesian HJS 2200 V/good signal but with fading Indonesian ? D/Welle mentioned often also Indonesia several times 22/1 #RP

11880 0600 CROATIA R Croatia Excellent signal, EE nx, ID 0617 then into Croatian 22/1 #RP

11880 2040 AUSTRALIA R Australia fair in EE with Science feature subject to slight QRM from RAI Italy which I identified by the Interval signal . I was trying to hear Italy to see if they mentioned the Americas Cup. But signal too weak AMQ

11930 0630 GREECE VOA Kavala relay Excellent signal with News Now and Press Conference USA pgms 29/1 #RP

11980 0400 NETHERLANDS ANTILLIES RVI Fair but noisy in EE with item on the link between cars and road rage 3/2 #PRP (Get rid of the cars = no road rage? — Ed)

0400 V/good signal with clear Id at S/on 0400. Nx, 'Focus on Europe'. S/off 0430 25/1 # RP

410 Good in EE with Radio World then tourist pgm 21/2 AD

11980 1430 CANADA RCI Weak in EE with News and Wx then Venture Canada pgm // 17820 via Skelton weaker but with clear audio 25/2 AMQ

11980 1900 THAILAND BBCWS Good in EE with World News AMQ

11995 0830 MARIANAS ISLANDS VOA Tinian V/good in EE. News, Encounter pgms 6/2 #RP

12005 0330 UAE R Dubai Good. EE. Clear ID, News, Stories from the Prophets 31/1 Also heard at good strength on //13675 25/1 and on 27/1 on //15400 with fair signal #RP

12015 1930 THAILAND VOA Udorn relay Good in Special EE with News Development report and This is America pgms S/off at 2000 31/1 #RP

12070 0745 ALBANIA TWR Good with interval signal Id and Family Bible Pgm 19/2 AD

0745 Excellent signal in EE with religious pgm 29/2 #RP

12080 2200 AUSTRALIA BBC Brandon Qld fr sig but faded rapidly ID 'BBCWS' 2206 28/1 #RP

12095 2030 GREAT BRITAIN? BBCWS Weak in EE with Newshour. ID 'BBCWS' 2049 23/1 #RP

12172U 2130 USA WGTG Fair in USB With Religious talk My umpteenth report so far no joy 25/1 HJS 2200 Poor signal with fading in USB mode with EE pgm of current affairs and religious comment Id at 2200 4/2 #RP

13640 1915 GERMANY VOA Lamperthiem Excellent signal in Special English with pgm of News Words and their stories with id at 1935 23/1 #RP

13650 0830 MARIANAS ISLANDS VOA Tinian Fair in EE with Id at 0830 as "VOA News Now" 16/2 GYM 0830 V/good in EE with VOA News Now pgm 5/2 #RP

13660 2005 GERMANY SRI via Julich Fair in EE with some QRM Clear Id given often News and Affairs pgm 3/2 Also on // 13790 via Germany V/good signal 24/1 # + # RP

13660 2040 CUBA RHC Good in EE in USB mode with news from Cuba, many ID's 26/1 #RP

13660 2100 CUBA RHC V/Good in Portuguese after Id and I/ signal 19/2 HJS

13680 2030 CUBA RHC Vgd, Urdu to Europe//21460 equal 17/2 HJS (Do you mean R Pakistan?— Ed)

13725 1930 GERMANY VOA Lamperthiem Weak in EE with Border Crossings pgm with QRM

from 13730 kHz 8/2 #RP

13745 2130 IRAN VOIRIB V/good signal in EE with fading News and comments 28/1 # RP

13820 0800 GERMANY Radio Croatia Excellent signal in EE with News till 0820 5/2 #RP

15060 0758 GREAT BRITAIN R Free London Weak in EE 30% copy 27/1 # HJS

15070 0640 HOLLAND Radio Alfa Lima International In EE with Rap/pop Mx Id and web and email address & Phone No. Good signal with some fading 27/2 (Keith also reports hearing on 5/3 another Dutch station Radio Blue Star on 6308 kHz at the same time period with EE Pop classics of the 60's —Ed) KB

15084 0430 IRAN VOIRIB Strong with id in Farsi ? HJS

15110 0618 KUWAIT R Kuwait Good in EE, pgm 'Kuwait in the International arena' 20/2 AD

15135 2115 SRI LANKA D/Welle Trincomalee excellent, EE, 'Newslink' //17560 the same HJS

2135 V/good signal in EE but with fading News and Sport pgm with plenty of Id's 21/1 #RP

15140 0430 ECUADOR HCJB V/Good in SS to Mexico 26/1 #HJS

15150 0930 USA VOA Good in EE with Id at News at 0930 then science item on the universe 29/2 GYM

15150 2033 INDONESIA V of Indonesia V/good in EE Pgm 'My Country My People' about umbrella making in Jureng village . Announced // 9525, 11785, but these were not heard Id at 2036 18/2 KVB

15160 1940 ? Music and songs under heavy jamming Who? 6/2 HJS

15180 1940 PHILIPPINES VOA relay Good in EE, 'Kaleidoscope' pgm, S/off at 2000 6/2 # RP

15185 2010 EQUATORIAL GUINES R AFRICA Finally got this one Weak, EE, relig pgm 9/2 IC

15200 1900 INDIA AIR Strong in EE with news // 9950 also good 25/1 HJS

15200 0859 GUAM KTWR Fair in EE with OM offering copy of New Testament, ID 26/2 CC

15215 0558 SOUTH AFRICA Channel Africa Fair in EE with pgm of Nx in EE from around Africa until 0630 then into PP 10/2 #PRP

0615 SOUTH AFRICA Channel Africa Good with Network Africa pgm in EE 20/2 AD

0647 Moderate to good in presumed PP Id 0652 and off 0655 16/2 KVB

15240 2145 MOROCCO VOA relay V/good in EE with VOA News Now pgm Business News and item on Books S/off 2158 21/1 #RP

15250 1000 USA? VOA Poor /Fair in EE with id then World News 29/2 GYM

15250 1938 ? Warbling jammer over spoken audio HJS

15255 0800 CZECH REPUBLIC R Prague V/good in EE with some QRM Id's often I/sig and S/off at 0830 29/1 # RP

15275 1935 SRI LANKA D/Welle Trincomalee relay Possibly the strongest signal I have ever seen on my 'S' meter at S9+40db Pgm was in EE HJS

15315 1810 NETHERLANDS ANTILLIES R Nederland Bonaire Good in EE with Sports pgm featuring Golf . Into DD after I/sig and Id at 1830 AMQ

15325 0440 ITALY RAI Int V/good in Italian to East Africa 26/1 HJS

15325 1940 CANADA RCI Good with EE / RR language lessons 25/1 HJS (That explains the station I heard on this freq at 1850 playing a Canadian C & W song in EE about Blue Mountains then comments in RR —Ed)

15335 0320 OMAN R Sultanate of Oman Weak in EE but improving End of news followed by Country Music pgm Id as 'Super FM' Into AA at 0400 AMQ

0330 Weak in EE lady with songs and chat 5/2 #RP

15355 1710 GABON NHK/ R Japan Fair in EE with World News and news about Japan Id 1714 Scratchy reception 2/2 CC

15420 0447 SEYCHELLES BBCWS relay Fair in EE with drama about life in Africa and interview with author Id 0500 13/2 KVB

15420 1800 SOUTH AFRICA Meyerton relay Fair but fluttery signal in EE with World News Much better on // 15400 via Ascension Island AMQ

15425 0215 SRI LANKA R Sri Lanka Fair/ Moderate with Sunday magazine show Pop Mx and letters answered Id 0304 13/2 KVB

15435 2030 LIBYA Voice of Africa V/Good signal with clear Id at 2034 & 2041 News pgm with language change at 2042 3/2 # RP

2033 Fair in EE with News for 9 minutes also heard at 2333 26/2 BML

15475.6 1900 ANTARTICA R Arcangel San Gabriel Fair in SS with Id's on the half hour Closes 2046 16/2 BML

15515 1745 RUSSIA VORWS Good in EE with 'Timelines' pgm about good Moscow women Id at end with email address S/off at 1800 AMQ

15530 0200 PHILIPPINES R Veritas Asia Fair signal in Telegu? Clear EE Id at 0228 4/2 # RP

15530 0345 SEYCHELLES FEBA Radio vgd sig, AA, clear I/sig at S/on 0345 Talk pgm 4/2 # RP

15565 0730 GREAT BRITAIN BBCWS V/good signal in EE with Agenda pgm 30/1 RP

15565 2045 USA WYFR At excellent level with EE religious pgm 26/1 HJS

15595 0730 VATICAN CITY Vatican Radio Good in EE with News and Id at 0745 then language change 5/2 # RP

15615 0730 ISRAEL Kol Israel Poor/fair in Hebrew with Home Sce pgm with adds including 'British Airways from Tel Aviv to London' 2/2 #PRP

15665 2157 USA WSHB Good signing off in EE with full Id 4/2 HJS

15685 2030 USA WWCW vgd EE rel pgm 'Voice of the Prophets' Clear Id at 2100 29/1 # RP

15745 2030 USA WEWN Excellent in EE with item on Euthanasia in Holland HJS

15785 0840 ISRAEL Galei Zahai Fair — Good in Hebrew with phone calls etc. 4/2 IC

15820 0320 ARGENTINA Radio Continental la Plata Fair in LSB Mode in Spanish? with unidentified sports commentary with "Continental" mentioned at 0311 2/2 # RP

17510 2328 HAWAII Que Huong Radio fr/gd, Vietnamese via KWHR. Prompt QSL 26/1 #HJS

17560 2124 GERMANY? D/Welle Good in EE with Id then item on Cebit computer show in Hanover S/off 2145 29/2 GYM

17595 0400 RUSSIA ? VORWS vgd, EE, nx, Sunday Panorama pgms Id at 0407 24/1 #RP

17605 1920 NETHERLAND ANTILLIES R Nederland Bonaire relay moderate in EE with pgm about food advertising techniques Id 1924 20/2 KVB

1930 Over a 5 minute period signal dropped out completely then took around 15 minutes to slowly return back to S9 strength. 5/2 HJS

17640 0500 CYPRUS BBCWS fr, EE, S/on, nx, 'The World Today' pgm with Alec Scot 30/1 # RP

17650 0815 ASCENSION ISLAND NHK/R Japan Good in JJ for Africa 16/2 IC

17650 2215 USA WHRI Good in EE with religious pgm, clear ID & address at 2230 21/1 #RP

17660 0645 GREAT BRITAIN? BBCWS Good in EE with News some fading 6/2 #RP

17665 0730 SWITZERLAND SRI Excellent signal with clear Id News sport and weather S/off with id at 0759 24/1 # RP

17675 1715 NEW ZEALAND RNZI Good in EE, Mailbag with Paul Ormandy & Myra Oh JSB

17690 0705 NEW ZEALAND RNZI Excellent signal in EE with fascinating talk on Hokonui Hill region near Gore 30/1 #RP (Have you ever tried Hokonui whisky ? Ed)

17705 2015 GREECE V of Greece Good in Greek to Nth America HJS

17770 1456 SOUTH AFRICA Channel Africa Fair in EE till 1530 23/2 BML

17790 0315 SINGAPORE BBCWS poor in EE with QRM from R Australia 17795 kHz Good Id at 0341 22/1 #RP

17830 0530 UAE R Dubai Good in EE, nx, 'Stories of the prophets' S/off 0550 22/1 # RP

17835 0100 JAPAN NHK/R Japan Poor in EE Only got the odd word but clear id at 0109 Language change at 0200 22/1 # RP

17835 0815 PAKISTAN R Pakistan Good in Urdu World service // 21460 the same 17/2 # HJS

0830 Weak with Urdu pgm for Europe // 21460 also weak but audible 10/2 IC

17885 2000 ASCENSION ISLAND VOA fr, EE but with fading. 'Africa World Tonight' 2/2 #RP

18960 1445 SWEDEN R Sweden V/good in EE // 13800 & 21810 23/2 BML

21470 0710 IRAN VOIRIB Good in FF S/of at 0726 29/1 IC

21530 0800 SOUTH AFRICA Amateur Radio Mirrors Int 1 hr weekly, Sundays, fair, EE Address PO Box 1842 Hillcrest 3650 Sth Africa. 20/2 # HJS

21550 0800 GERMANY Voice of Democratic path of Ethiopian Democracy Opens at this time on Sundays Fair in Amharic 30/1 IC

0800 Signs on with Id by MA 'Foneta Demokiasi Mainly talk with more mentions of 'demokiasi' and 'Africa' 27/2 #PRP

21630 0300 UAE R Abu Dhabi (tent.) exclnt, AA, Abu Dhabi mentioned in ID 0300 26/1 #RP also heard at 0420 on // 21735 22/1 #

21660 0400 THAILAND BBCWS Poor in EE with Id at 0405 News pgm Best signal after 7 days listening 29/1 #RP

21670 0130 NHK R /Japan Very good in English 21/2 HJS

21700 0400 INDIA AIR Tentative Unidentified with weak signal in EE, music pgm 5/2 #RP

21735 0200 GUAM KSDA V/Good signal but fading EE id at 0300 and 0359 Religious pgm Sat & Sun only Announcer clearly stated freq at 21735 but sked shows 21770 with nothing heard on 21770 kHz 22/1 RP

21740 2157 AUSTRALIA R Australia Excellent in EE with Innovations pgm then Id at 2157 with News at 2200 Still there at 2346 though signal gradually faded a bit 29/2 GYM

21820 0900 AUSTRALIA R Australia Good in EE with World News then Australian Talkback pgm Severe fade out by 0920 29/2 GYM

25595 2303 UNIDENTIFIED LOCATION UNID Station. Fades in probable KK language with intense public speech, pgm of class. songs. 23/2 heard other days up to 0800 KVB

Thanks very much to all this month's contributors. A # mark indicates a report has been sent to the station. Now a couple of responses to Jon Standingbear's query on the rejection of his reception report of R Australia using 11550kHz from Taiwan.

Firstly from Bryan Clark "Relying a little on memory from last September or so, when Radio Australia's 'Talkback' programme reported that Merlin Communications of the UK had won a contract to lease out shortwave transmitters of Taiwan's Central Broadcasting System (CBS). The first relays brokered by Merlin over these transmitters were Radio Australia 11550 and Herald of Christian Science 11725 (see my reports on these in your Bandwatch column of October 1999). At the time I found a press release on the Merlin Communications internet website about this arrangement. So, Radio Taipei International are probably technically correct to say they aren't relaying Radio Australia. But I suspect that RTI themselves are also being relayed by the same Merlin/CBS transmitters. 73, Bryan "

The second reply is from Leigh Morris of South Australia "As far as I know Radio Australia is still leasing time from CBS Taiwan, (0900-1000UTC in EE on 11550Khz) whilst Special

broadcasts from Shepparton on 9500 and 11660Khz from 1330 to 1430UTC) but I'm not sure if the Portuguese broadcasts are still continuing. (Radio Australia special broadcasts are actually produced by Francis Leach of Radio Station Triple J I would suggest any reports or references to Radio Australia broadcasts be sent by E-mail to Nigel Holmes Transmission Manager for Radio Australia, and not to the transmission site at Taiwan (As you are probably aware the Australian Radio DX has been QSL ing on behalf of R Australia)"

So there you are Jon there is some hope you may get a QSL after all!!!

Now for this months query Robert Park our contributor from Lower Hutt is looking for Addresses for Voice of Africa Libya and R Continental La Plata Argentina preferably standard mail but an email address is better than none. Robert also comments that his contributions "are based on the broadcast list put together by Mike and Ken in the December Times and from those who contribute to the monthly trails, so here is one person who gets a lot of use out of your efforts".

You are welcome to contact me either via P O Box 3011 Auckland or direct to me at 36A Brentwood Street Trentham Upper Hutt or you can use email. - Andy McQueen

Shortwave Exchange

AMQ Andy McQueen Trentham Sony 6800 AD Arthur De Maine Dxing from Whatamongo Bay Marlborough Sounds with Drake R 8 & 30 metre longwire / BML Bill McLeod Christchurch NRD 54560m wire & 12 m vertical / CC Cliff Couch Paraparaumu Sangean ATS803A with 60m horizontal loop GYM George Muzyka Auckland Win Radio WR —1000i with 40m long wire HJS Jack Searle Haumoana Hawkes Bay Icom R71 100m longwire + 19m & 60m dipoles IC Ian Catermole Blenheim JRC NRD 545 with T2FD and Alpha Delta antennas JSB Jon Standingbear Beaumont California USA Palstar R30 Drake Sw2 & off centre fed dipole KVB Kelvin Brayshaw Levin FRG7 Sony ICF2001 5 MHz dipole and 40m horizontal loop PRP Paul Peacock Blenheim Sony 6800 RP Robert Park Lower Hutt Kenwood R1000 with 40 ft longwire TTS Tristram Speedy Manurewa Auckland.

utilities@radiodx.com with Evan Murray, Auckland

A report in a Rotorua newspaper says that a local group are intent on having scanners banned, due to an invasion of privacy. In the hands of burglars scanners are said to be used to interfere with day to day phone conversations and to keep track of police movements. Some years ago Auckland branch members visited Auckland Central Police Control Room and amongst other things it was announced that the Police were to go digital soon. This has not happened yet but would avoid some problems if it happened. (From memory, AKL Police were to be digital prior to the APEC meeting in AKL, with other regions following soon after? - C.Ed)

The International Express of London reports that the British Government may ban some airlines flying into England. In past years there have been a number of incidents which have caused alarm, such as aircraft landing with almost dry tanks, near misses in flight, straying into prohibited airspace and other instances of unsafe flying practices. The more prolific offenders are from Asia, Africa, South America and the Middle East, and we only have to listen to some flights in those areas to appreciate control difficulties. Who has forgotten the accident over South Africa, involving an American and a German aircraft?

4125 1443 Fishing boats giving Anchorage ETA JC
5505 0816 Shannon Volmet Paris Orly and CDG Santa Maria EM
5598 0727 Virgin 30/Santa Maria Sigmet occasional turbo below 390 EM
5634 1741 Antanarivo/Springbok 386 but QRN JC
5598 0638 Air Belgium and Air France/Shanwick BJ
6577 0900 American 956/New York Posn FL 410 EM
6604 0831 New York Volmet/Milwaukee Minneapolis and Chicago EM
6637 0938 NZ 184/Dispatch with WX CHCH 4000 ft light drizzle EM
6754 0924 Trenton Mil with WX Halifax Shearwater etc EM
8812 1004 Hong Kong Marine Radio ID WX JC
8855 1008 Belem very active with American United and Canadian aircraft JC
8918 1649 Bahrain active JC
8924 1926 Dublin/Sounded like British Air 001 JC
8930 1844 Stockholm/Reach 440 we fuelled Sofia & filed direct to Shannon JC
8948 1303 Nagpur with flight info to Delhi JC
8930 2017 Stockholm/Asian Express over Miami BJ
8933 0609 Cedar Rapids/Continental 94 ETA Houston Intercontinental 1220 JC
10024 0845 Cordoba/Unid station calling EM
10024 0830 Punta Arenas/Qantas 116 Posn 0835 FL 340 705 110W next EM
10024 0912 Bogota Radio/Unid in SS Station calling Punta Arenas say again EM
10024 0913 Asuncion/Unid in SS EM
10024 0834 Lima/American 946 FL 350 Next Radem ? EM
10024 0842 Avianca 8381/Bogota in SS Note Bogota airfield at 8361 ft ASL has second longest runway in world at 12467 ft EM
10024 1030 Punta Arenas/Qantas 116 Posn 63S 125W 1030 JC
10024 1030 Puerto Montt/Qantas 115 49S 110W JC
11256 1935 Holloway/Ethiopian 0750 on ground Roma/Fiumicino 1922/33 JC
11256 1950 Holloway/Ethiopian 0461 Dep Fiumicino 1930 ETA Beirut 2114 JC
11256 0413 Holloway/Ethiopian Flt Dep Zanzibar 0359 ETA Nairobi 0457 JC
11300 1851 Tripoli/African Intl Airways 816 Tripolo to Nairobi ETA 1946 EM
11300 1852 Addis/Reach 173T FL 330 Dep Pisa for Djibouti C17 EM
11300 0601 Khartoum/Gulf Stream 34 Jeddah to Khartoum BJ
11300 0538 Khartoum/United Nations Alpha Zero BJ
11306 0551 Lima/American 963 S/C DLHE BJ
13306 2005 Air France 322/New York cleared to 370 Report reaching EM
13306 0954 Qantas 63/Perth Maintain S/C watch I'll relay to Mauritius EM
13333 1421 Speedbird Ldn/Jetset 247c-D1 -> Ops, request diversion Tenerife to Arrecife JC
13333 1425 Speedbird London/Saudia 7647 Dep Riyadh Request WX Zurich JC
17323 0942 Monaco Radio with WX Guinea Gulf ID Music Box Interval EM
118.0 0817 Auckland/November Sierra Delta on finals downwind R/W 21 EM
118.5 0331 Echo Uniform Bravo/Christchurch FIS QNH 1018 EM
124.3 0342 Qantas 43/Auckland Approach Contact Control 124.3 at 6000 ft EM
126.0 0625 Eagle 668/Christchurch Control EM
127.8 0413 Auckland Auto Term Info Service WX and Terminal Info EM
128.3 0416 Whenuapai Auto Term Info Service WX and Terminal Info EM

LOCAL VHF AND UHF FREQUENCIES CAN BE SUPPLIED FOR YOUR AREA

Contributors JC John Charlton Greymouth Kenwood 5000 30m wire BJ Basil Jamieson Oamaru Drake R8 Kenwood 5000 30m wire EM Evan Murray Auckland Kenwood 5000 T2FD

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

Hi all, and a warm welcome back to Sutton Burtenshaw, formerly of Invercargill and a DXer I admired for the quality of his logs back when I started DXing in the mid to late 70s. And as Sutton gets comfortable with the radio scene these days, he has a couple of questions of general interest "Where can an up to date list of NZ call-signs be found?" Well, very good question as the Ministry seem to have dispensed with them, and I guarantee there are more than the odd station that don't even know they've got a call-sign! Question 2, "What is the policy where two stations are on the same frequency but locations are different? WRTVH lists 1YX National radio 837 as both Kaitaia and Whangarei". Not quite true, Kaitaia is 1YK and Whangarei 1YX. I would say that unless you visit each town, then you'd have to count them as 1 station, though there is the possibility that one or the other may be off for maintenance which would allow for the possibility of QSLing both stations - and opportunities for that may be few and far between as RNZ have said they intend to shift all National Radio stations to FM, starting with Auckland and Taupo, so long them while you can. [Note - many synchronous stations have their frequencies set slightly differently - say 10Hz - so if you have a receiver with an accurate read-out, and an audio frequency meter (or can use the sound port on your computer), you can measure the signals zero frequency quite accurately - C.Edj

And by the time you read this Bryan Clark and I will have spent a week at Waiānākara and if true to form, we'll have some interesting listening to report next month. First up, one of the original 'Tiwai Tuners'.

Sutton Burtenshaw, Hamilton "Been a few years, don't know why I've got the 'itch' again. Will go with the flow and see what happens. Was in Northland during January and have since sent 8 reports out. Only one back is R. Rhema, Kaitaia 549" Will answer those other queries via e-mail.

Lindsay Robinson, Invercargill "One log, KXOL 1660 (2nd time). QSL in from WTTM 1680 (very nice!) and R Symban 1674, 400 watts from home. Looking forward to the Equinox". Yes Lins, me too.

Laurie Boyer, Invercargill, Unfortunately having to pass up the trip to Waiānākara due to a spot of ill health "Have Veries in from 2RPH 1224, 4CC 1584, 3BT 1314, 2KY 1314, 2AD 1134, 2NC 1233. About twelve more out including WTIR 1680 heard with Ray Crawford at his home. Would like to thank Ray and Rayleen Crawford, along with Chris and Lynne Martin for their hospitality and help during my visit to Queensland." Laurie, any of those Aussies logged in NZ? Need to know for the Merv Branks Trophy. Ta.

Chris Martin, Ormeau, Queensland "Conditions here at Ormeau (south of Brisbane) have been mostly just awful. But some nights are interesting. Like last night. Sunset skip delivered nothing - dead. But at around 1030 - 1130z cx caught my interest. 1570 had oldies on it over XERF. I believe a Canadian. CKEG plays country though. Who plays stuff like Eric Burdon and the Animals on 1570?" then more recently "I have a lone QSL from Radio Symban 1674 Sydney. Conditions noted to be on the up. Latins have been heard at the Boreen Point shack around sunset skip time with Santa Rosa & Dos Mil coming in at fair level on 1500 kHz. Some northern auroral activity also noted and the X-Band has been active too. Keep your

ears on." 1570 could be CKTA Taber AB I reckon.

Paul Ormandy, Oamaru, Just the one QSL, YVNV Radio Nacional de Venezuela 1240 - saving myself for next week.

Best of the Month

Lindsay Robinson with WTTM Princeton NJ 1680kHz 1KW

Ormeau Trail from Chris Martin

1470 1100 CANADA CJVB Vancouver BC. OK with news in CC.

1521 1930 RUSSIA Unid w/R Mayak Interval Signal o/China.

1560 1135 USA Unid w/a cattle market report.

1600 1055 USA very much alive 4 stations.

1630 1045 USA strong o/c and het against the Aussie.

1660 1115 USA WWRU Elizabeth NJ 1115 with SS talk back.

16901112 USA WMDM Lexington park MD w/ community annc for Maryland and service of 1690 WMDM

On 14/2/00 there was northern auroral conditions delivering Asians at good level over the Aussies. Noted for the first time RRI Bandung on RRI Central news // 4750 at 1100 way over the Aussies on 1395. Has this Indo moved to the correct freq finally? Many Filipinos noted and RCI Beijing over the Aussie with EE Nx at 1200 on 1341. Some unid Indo's on 1370 and 1388.8 as well.

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

NEW ZEALAND 88Country Christchurch is new on 1593, first noted on 26 February. Quite strong reception in the central city, with crisp clear modulation. Simulcasts "88Country" (88.6 MHz) and appears to be full time. (Chris Wright) 1593 is a solid clear signal in Wellington. Announcements include 'now covering Canterbury on 1593' and asking listeners to call and tell them where they can be heard 'so we can put your town on our Country map'. This frequency is held by Radio Rhema partner UCB and is probably being leased to raise funds for the cash-strapped Rhema network. (David Ricquish) Another Rhema frequency, 1233 Wellington is currently leased to Solid Gold Hits FM who, despite the format, use AM only here in Wellington since January. (David Ricquish)

Here in Auckland, the 603 transmitter has returned to air during February. Initially it carried Maori language programming from Ruia Mai 1179, otherwise non-stop vocals. Now identifies as "Urban Maori Radio-Waatea 603 AM". Station is located at 31 Calthorpe Close Place, Mangere, Auckland but Telecom Directories have no telephone listing as yet under the station name. (Bryan Clark) Radio Waatea, the newly launched Auckland iwi station run by the Manukau Urban Maori Authority and Te Whanau o Waipareira Trust, has come in for criticism from fellow Maori stations for accepting Te Mangai Paho funds to air Maori language programmes they did not produce themselves. The station, operating on Radio Aotearoa's old 603AM frequency, has been given \$220,000 by Te Mangai Paho on the condition it play at least 3.5 hours te reo Maori content. However, most of its current te reo Maori content is sourced from other iwi stations - who also receive funding to produce the shows in the first place - raising accusations that Te Mangai Paho is wasting taxpayers money by paying twice for the same thing. (Median Strip 2/00)

AUSTRALIA The ABA released mid December 99 it's draft LAP for Melbourne, Geelong and Colac and called for submissions till close off at January 28th 2000. This draft discussion paper is of some 200 pages and contains a lot of information. Most of the activity is on the FM band with 2 new commercial stations becoming available after a price based allocation system later this year. The changes to AM stations are as follows: 3EA, 3PB, 3EE, 3AK, 3AW, 3MP and 3UZ will enter a trial for 18 months of day night switching 10Kw/ 5Kw to effect a solution to increased interference from noise on the AM band. 3CR will also trial day night switching with 5kw days 2kw nights directional. The trial period will commence in the second half of 2000. SBS-Radio had put a submission to the ABA for more night power to overcome reception problems due to co-channel interference but the ABA couldn't allow further interference to 2RPH, 6RN and Invercargill. 3PB is to get 5kW directional at night on 1026 to protect 4MK and NZ. 3CS Colac is to have its licence area increased. (Chris Martin)

Reclusive Gold Coast business man, Bill Caralis has recently made a format change to his regional network after the acquisition of 2SM 1269 last year for \$8.25 million. Mr Caralis owns some 16 AM stations and 15 FMers. 2SM has now become the hub whereas before 2TM, 2MW and 2ZZZ-FM were feeding the network at various times of the day. 2TM carried the country music out to the truckies plying the New England Highway from Sydney to Brisbane and relayed the music to 4WK. Since the country music has ceased being played from mid February the country music fans have lost their fix and the locals are 'up-in-arms'. Tamworth now has only a low powered FM'er on 87.8 playing country music and the city is in real fear of losing the multi-million dollar 'Country Music Awards' held in January to another major centre. 2MW no longer carries Paul Tully's 'Australia Tonight' talk program over the regional network of stations 4GY, 2LM, 4WK, 2MO, 2AD, 2NZ, 2GF, 2DU, 2TM, 2LF, 2PK, 2MG, 2VM & 2RE. The networks telephone number now is 13 12 69 the 1269 being 2SM's frequency. Currently at night the music format is a mix of Gold and Ezy but the telephone number is the tell tale give away! Another regional network called 'Easy Listening Australia' is also being formed with some of the stations on 531,639 & 1089 since the AM'ers have moved to FM. Keeps your ears out for additions to this network. (Chris Martin)

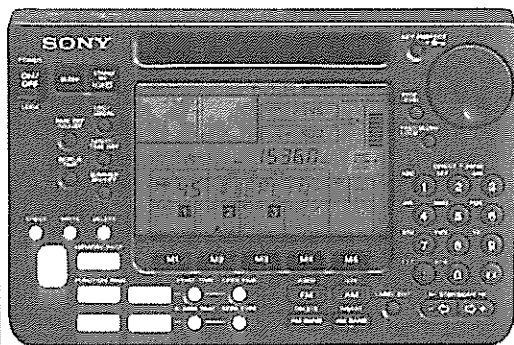
CHINA China Radio International 1323 is being heard on 1322.9 with Mongolian 1200-1300, Russian 1300-1600. New strong CNR-1 is being heard on 945/1593 (Arctic) CRI uses 1241 in English as follows 1130-1157 & 1200-1227 in Tagalog/English to Philippines; 1200-1257 to Asia/South Pacific //1188; 1300-1357 to Asia & 1430-1457 in Tagalog/English to Philippines (Arctic Radio Club via IRCA DX Monitor)

CHINA — TAIWAN Family Radio are operating on 1557 from a transmitter site near Kou-Hu on the western coast of Taiwan. The station programme originates in Oakland, California and is sent as a 'live' MP3 stream point to point on the internet to the Merlin/BBC control centre at Bush House in London. From London it gets uplinked with BBC and other broadcasters material as an Mpeg II Stream on Intelsat, down in Cyprus, up to AsiaSat II, and down to Taiwan. Testing Started January 15th at around 15kw. Some Mandarin language Christian music was broadcast on the 19th at 50kw. Regular programming started on 20 January and, on 2 February, power was run up to 75kw. It was due to increase to 300kw by the end of February. The station will have predominantly Mandarin programming, but with two 3-hour English slots. (Bjarne Mjelde "the world's northernmost DX'er - 71°N, 29°E in

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Arctic Norway, where 1557 provides a very stable and clean -75dBm signal throughout the evening, via Hard Core DX via PWO)

ERITREA Asmara is using 100kw on 837 (pgm2) and 945 (program 1) (ARC via IRCA DX Monitor 2/00)

HAWAII Format updates KQNG Lihue 570 is talk & news; KSSK Honolulu 590 is Adult Contemporary, Oldies; KGU Honolulu 760 is all-sports; KHVH Honolulu 830 is talk & news; KNUJ Kahului 900 is Hawaiian oldies music, with ethnic programming on Sundays (moved from co-owned KMVI-550); KAHU Hilo 1060 is Hawaiian music and affairs; now 24 hours except silent period Monday mornings; KAOI Kihei/Wailuku 1110 talk, news, sports; KOHO Honolulu 1170 is still silent (tentatively returns to air in May 2000); KIFO Pearl City 1380 is news, talk, plus variety weekends; adds jazz nights (went from partial simulcast of KIPO-FM and KHPR-FM to total simulcast of KIPO-FM only in January); KUMU Honolulu 1500 adult standards (// KIDD-630 and KVIN-1390!). (Dale Park HI via IRCA DX Monitor 2/00)

NETHERLANDS ANTILLES On 23 February, Trans World Radio formally dedicated a new 100kw AM transmitter and directional antenna on Bonaire — frequency 800kHz. Since August 1964, TWR has been utilising a 500kw sender on Bonaire to broadcast Christian programming to Latin America. But powering this transmitter was an expensive undertaking, because electricity costs are high and maintaining older equipment can be extremely time-consuming. As a result, a Nautel NA 100 (100kw solid state MW transmitter was recently installed and is now fully operational. At the same time, four 480-foot towers designed by Kintronic Laboratories have been erected replacing aging ones. With a strong signal, this new system will enable TWR to continue broadcasting to Latin America more

than 100 hours of weekly Christian programming in 5 languages, for key target areas such as Cuba, Venezuela, Haiti, Dominican Republic, and the vast Amazon basin for years to come. (Because of the popularity of AM and FM radio among listeners in Latin America, TWR discontinued its shortwave operation from Bonaire on 30 June, 1993. (Kevin Maly via Hardcore DX via Paul Ormandy)

PANAMA: HOQ51-is broadcasting on 700 ex 710 Radio Caracol-Panama has been heard in Colombia using 790 and 1420, frequencies previously used by Southern Command Network (Arctic Radio Club via IRCA DX Monitor 2/00) (*The US withdrew from Panama Canal Zone on 31 December. Ed*)

PHILIPPINES Radio Mindanao Network's website at <http://www.rmn.com.ph/> has a separate page for each of its stations (Arctic Radio Club via IRCA DXM)

RUSSIA There is a new and very good web site listing MW & LW stations in the Russian Far East. The site is maintained by a Japanese MW DXer who seems to be keeping it up to date. It also includes links to web sites for many Russian Far East stations, but as would be expected they're mostly in Russian. Check: <http://www.asahi-net.or.jp/~MS8N-TKN/RUS-SIA/rsflist.htm>

AM Stations in the Yuzhno-Sakhalinsk area: 720 Radio Mayak 1900-1000, except 1000-1700 Voice of Russia, English and Japanese; 792 Radio Rossii, GTRK "Sakhalin", Radiostantsia. Tikhiy Okean 1900-1700; 1377 Radio Rossii 1900-1700; 1431 Radio One 2000-1500; 1548 Radio Mayak 1500-1400; 1575 Radio Yunost, GTRK "Sakhalin" 1900-1700; 1602 Radio Mayak (Irkutsk DX Circle web site via IRCA DX Monitor 2/00)

VENEZUELA: YVNO Radio Fe y Alegria is on 620 ex 800. Radio Lider heard on 680//1400. YVKG 950 now "Tu AM Popular. The Venezuelan counterpart to the FCC has a website with a downloadable list of AM stations in the country. To get there, go to <http://www.conatel.gov.ve/> and click on radiodifusion, from there you should find several items, one of which is the AM list in Excel spreadsheet format. (Bruce Portzer IRCA DX Monitor 2/00)

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

WELCOME TO THE FOLLOWING NEW & REJOINING MEMBERS: PETER BANKART, Flat F2, 30 Mailland Street, Greerton, Tauranga (via Teletext); PATRICK J. SMITH, 68 Moonshine Road, Trentham, Upper Hutt (via David Ricquish); MIKE KINRAID, 182/B Musselburgh Rise, Dunedin (via Teletext); REX GILLET, Unit 104, Victoria Grove Estate, 254 Greenhill Road, Glenside, South Australia 5065 and THOMAS HOESLE, Maria-Adelberger-Strasse 7, 85570 Markt Schwaben, Federal Republic of Germany. Peter is interested in all areas of DX and presently uses an AR8200 receiver. Patrick returns to our membership after an absence of 3 years. Mike has a Sangean ATS-803A receiver but is on the lookout for something better. Rex is a doyen of the Australian DX scene, with over 60 years in the hobby. Amongst Rex's many DX memories is his involvement in the very first shortwave programme dedicated to DXers - "Australian DXers Calling", first carried by Radio Australia back in July 1946. Thomas heard about the League courtesy of our friends at ZLXA, the Radio Reading Service in Levin. Welcome to you all - we hope your interest in the DX and SWL hobby is helped by the contributions of other members in the 'DX Times' each month. Please let us know about your DXploits!

VALUABLE PUBLICITY A special thank you to members who have taken publicity initiatives on behalf of the club in recent months. New Adcom member DAVID NORRIE's approach to the 'NZ Listener' magazine resulted in a very positive article on shortwave listening and the DX League by columnist Nick Bollinger in his 'Radio Review' column of 19 February. Entrepreneurial Wellington member DAVID RICQUISH has arranged for PAUL ORMANDY's 'South Pacific DX Report' to be carried by access radio stations in the capital city and Dunedin. He has also promoted shortwave listening to numerous ethnic organisations and personally written to a large number of former members in those two regions to encourage their return to the hobby. Certainly the joining/rejoining rate for the DX League in recent months has gone sharply against the trend of shrinking memberships in clubs like ours. Thank you gentlemen! The Administration Committee welcomes all suggestions and practical offers of help in promoting the DX and shortwave listening hobby.

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

WRTH DOMESTIC SHORTWAVE STATION SUPPLEMENT Would the Hawkes Bay member who ordered same on 1 March, please notify their name and mailing address so we can fulfil your order.

HALLICRAFTER SX130 Can anyone assist with a photocopy of the instruction manual and hopefully a circuit diagram for this comm's receiver from the mid-60's era? Please contact Doug Milligan, 6 Holmburn Street, Welcome Bay, Tauranga - telephone (07) 544-1442.

NZRDXL/RADIO NETHERLANDS 'MILLENNIUM CONTEST' Enthusiasts from 21 countries in all continents except South America submitted reports on news broadcasts aired on New Years Day by radio, TV and web-based broadcasters in 38 countries. Not surprisingly, the most prominent news stories were the millennium event itself, the impact (or non-impact) of the Y2K bug, the resignation of Russian President Boris Yeltsin and transition to Vladimir Putin, and the Indian Airlines hijack drama coming to a close. Amongst the "also ran" stories were Panama regaining control of the Panama Canal from the United States, the return of Macao to Chinese control, dissolution of the Sudanese Parliament and declaration of a state of emergency. In some countries New Year's Day news was dominated by government statements, e.g. Radio Tirana, Radio Malawi, Radio Taipei International. Iran's and North Korea's news headlines ignored the millennium altogether. All entries have been forwarded to Radio Netherlands for a prize draw later this month. The turnout from DX League members for this joint contest was most disappointing however - only 5 participants from New Zealand.

GOING OVERSEAS? We receive information regularly from overseas DX and SWL organisations about hobbyist gatherings. Most major clubs in North America sponsor such events and visitors from overseas are generally welcome. If you are considering an overseas holiday and would be interested in such events, please drop a note to Box 3011, Auckland with proposed travel period and destination countries, and we'll pass on any relevant information. Some examples - the Ontario DX Association are holding a Spring Radio Camp on a 340 acre property north of Toronto 7-9 April. The International Radio Club of America (medium wave only) is holding its 2000 Convention at The Homestead Quality Inn Hotel in Billings Montana 25-27 August.

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Auckland

The annual auction/BBQ brought out a good turnout on Sunday 27 February. Once again Alice and Barry Williams provided their home as well as catering for members. Daniel Bloomfield, President, became auctioneer for the day but reverted to his normal role in announcing activities for March and April which will be informal meetings at the clubrooms. In May there will be a visit to TVNZ studios in Victoria Street, which will be conducted by former member Wayne Huggard. Meet at 2 pm prompt on Sunday 28 May at the studio's entrance. Clubrooms are located at 3000 Great North Road, New Lynn and meetings are always held at 2pm on the last Sunday of each month, except December and on other occasions when specially advertised.

North Otago

The March 9th meeting was held at the Electricity Museum, in the historic part of Oamaru with a full turnout of members and their wives. Frequency Competition results: 17 - Peter Grenfell, Basil Jamison, Ray Davey. 16 - Jim Smyth, Paul Ormandy.

We were given a talk about an historic radio station starting up in part of the Lanes Emulsion building which houses a show of Moffat ranges from the 1920's, various vacuum cleaners etc., also a 20 seat theatre. Was shown 2 videos as well. It is hoped to have the station up and running by November. Happy DXing from Ray and the team.

shortwave in time order *with Yuri Muzyka*

Time Order summaries of Under & Over 9MHz loggings. The contributor's name is abbreviated here (for further details please see the Under & Over 9 MHz columns). Please remember to include the date with all your loggings, thanks. 73 - Yuri ("George") Muzyka, ZL1GYM. Author of WINRADIO for Linux/Unix/*nix Program Suite (see: <http://www.linradio.com/sources.htm>), a free software solution.

Time (UTC)	Frequencies (kHz)	Station Name	Station Country	Log Date	DXer Name
0100 - 0200	17835	NHK/R Japan	JAPAN	22/1	RP
0130	21670	NHK/ R Japan	JAPAN	21/2	HJS
0200 - 0359	21735	KSDA	GUAM	22/1	RP
0205	11710	RAE	ARGENTINA	22/2	AD
0215	11740	R Taipei Int	TAIWAN	22/2	AD
0215	11865	RCI	CANADA	21/2	AD
0215 - 0304	15425	R Sri Lanka	SRI LANKA	13/2	KVB
0239	9535, 9755, 11865	RCI	CANADA	28/2	AMQ
0259	9605	Vatican Radio	VATI. CITY	20/2	AD
0300	11750	D/Welle	GERMANY	29/1	RP
0300 - 0330	11665	YLE R Finland	FINLAND	4/2	RP
0315 - 0341	17790	BBCWS	UK	22/1	RP
0320 - 0400	15335	R Sultanate of Oman	OMAN	-	AMQ

0330	12005	R Dubai	UAE	31/1	RP	0700	5085	WGTC	USA	29/1	RP
0330	136750	R Dubai	UAE	25/1	RP	0700 - 0729	11750	HCJB	ECUADOR	22/1	RP
0330	15335	R Sultanate of Oman	OMAN	5/2	RP	0700 - 0730	7150	V of Mediterranean	MALTA	5/2	RP
0330	15400	R Dubai	UAE	27/1	RP	0705	17690	RNZI	NEW ZEALAND	30/1	RP
0340 - 0357	7260	V of Vietnam	VIETNAM	2/2	KAB	0720	9870	HCJB	ECUADOR	19/2	AD
0400	11980	RVI	BELGIUM	3/2	PRP	0730	15565	BBCWS	UK	30/1	RP
0400	21700	AIR	INDIA	5/2	RP	0730 - 0745	15595	Vatican Radio	VATICAN CITY	5/2	RP
0400 - 0405	21660	BBCWS	UK	29/1	RP	0745	12070	TWR	ALBANIA?	19/2	AD
0400 - 0407	17595	VORWS	RUSSIA	24/1	RP	0746	6150	University N/W	COSTA RICA?	18/2	PRP
0400 - 0428	11795	RCI	CANADA	27/1	RP	0758	15060	R Free London	GREAT BRITAIN	27/1	HJS
0400 - 0430	11980	RVI	BELGIUM	25/1	RP	0800	9845	WSHB	USA	6/2	RP
0400 - 0458	9600, 9810	R Ukraine Int	UKRAINE	24/2	BML	0800	21530	Amateur Radio Mirrors Int	SOUTH AFRICA?	20/2	HJS
0410	11980	RVI	BELGIUM	21/2	AD	0800 - 0820	13820	Radio Croatia	CROATIA	5/2	RP
0447 - 0500	15420	BBCWS	UK	13/2	KVB	0800 - 0830	15255	R Prague	CZECH REPUBLIC	29/1	RP
0500	9660	Vatican Radio	VATIC CITY	-	TTS	0803	7435	WHRI	USA	4/2	PRP
0500	11795	D/Welle	GERMANY	29/1	RP	0805	9615	KNLS	ALASKA	9/2	PRP
0500	17640	BBCWS	UK	30/1	RP	0830	11995	VOA	USA	6/2	RP
0515	6110, 7230	R Japan	JAPAN	12/2	KAB	0830	13650	VOA	USA	16/2	GYM
0515 - 0535	11825	VOA	USA	5/2	RP	0830	13650	VOA	USA	5/2	RP
0530	6155	ORF	AUSTRIA	12/2	KAB	0854	9570, 13670	RKI	SOUTH KOREA	24/2	CC
0530	7510	KTBN	USA	12/2	KAB	0855	11590	CHBC	CHINA	19/2	PRP
0530 - 0550	17830	R Dubai	UAE	22/1	RP	0859	15200	KTWR	GUAM	26/2	CC
0540	6055	REE	SPAIN	14/2	KAB	0900 - 0920	21820	R Australia	AUSTRALIA	29/2	GYM
0540	7230	R Japan	JAPAN	2/2	KAB	0901	11730, 15210	CRI	CHINA	24/2	CC
0544	6015, 6155, 13730, 15410, 17870	R Austria Int	AUSTRIA	27/2	CC	0902 - 0912	3325	R Bougainville	PNG	12/2	KVB
0555	7180	V of Russia	CIS	2/2	KAB	0906 - 0908	6160, 17820	DW	GERMANY	24/2	CC
0558 - 0630	15215	Channel Africa	SOUTH AFRICA	10/2	PRP	0930	15150	VOA	USA	29/2	GYM
0600	6045	RCI	CANADA	31/1	IC	1000	15250	VOA	USA	29/2	GYM
0600	7435	WHRI	USA	29/1	RP	1430	11980, 17820	RCI	CANADA	25/2	AMQ
0600	9565	D/Welle	GERMANY	24/1	RP	1445	13800, 18960, 21810	R Sweden	SWEDEN	23/2	BML
0600	9670	RCI	CANADA	30/1	RP	1450	9385	KSDA	GUAM	-	AWR
0600 - 0617	11880	R Croatia	CROATIA	22/1	RP	1456 - 1530	17770	Channel Africa	SOUTH AFRICA	23/2	BML
0609	9670	RCI	CANADA	2/2	PRP	1500 - 1525	9720	V of Mongolia	MONGOLIA	23/2	BML
0615	15215	Channel Africa	SOUTH AFRICA	20/2	AD	1530	3315, 3223	AIR	INDIA	17/2	CC
0618	15110	R Kuwait	KUWAIT	20/2	AD	1540	9335.1, 11710.1	R Pyongyang	NORTH KOREA	23/2	BML
0630	6015	R Austria Int	AUSTRIA	20/2	AD	1619	3915, 7160, 9740	BBC WS	UK	17/2	CC
0630	6890	WGTC	USA	22/1	RP	1630 - 1637	9870	RKI	SOUTH KOREA	11/2	CC
0630	11775	RRI	ROMANIA	5/2	RP	1646	6140	DW	GERMANY	11/2	CC
0630	11930	VOA	USA	29/1	RP	1650	9645	VOA	USA	-	AMQ
0630 - 0700	5070	WWCR	USA	24/1	RP	1656	3915	BBC WS	UK	2/2	CC
0630 - 0705	9370	WTJC	USA	30/1	RP	1700 - 1758	7200	Sudan Natl BC	SUDAN	3/2	BML
0640	11830	R Romania Int	ROMANIA	20/2	AD	1704	11690	R Jordan	JORDAN	2/2 & 21/2	CC
0640	15070	Radio Alfa Lima Int	HOLLAND?	27/2	KB	1710 - 1714	15355	NHK/ R Japan	JAPAN	2/2	CC
0645	17660	BBCWS	UK	6/2	RP	1715	17675	RNZI	NZ	-	JSB
0656 - 0722	4760	Radio ELWA	LIBERIA	16/2	BML	1718	11615, 15210	RFI	FRANCE	3/2	CC

1730	4800	AIR	INDIA	2/2	CC
1730	7560	KSDA	GUAM	8/2	IC
1733	5915, 6055, 7345	R Slovakia Intl	SLOVAKIA	21/2	CC
1743	6295	R Spaceman	NETH?	28/2	KB
1745 - 1800	15515	VORWS	RUSSIA	-	AMQ
1748	6155, 9655, 13710	R Austria Int	AUSTRIA	2/2	CC
1807 - 1815	7410	AIR	INDIA	16/2	KAB
1810	7190	Bangladesh Betar	BANG	1/2	KAB
1810 - 1830	15315	R Nederland	NETH	-	AMQ
1820 - 1825	5930, 7315	R Prague	CZECH REP	-	KAB
1840	7184	Bangladesh Betar	BANG	5/2	DN
1900	7275	RKI	STH KOREA	21/2	KAB
1900	9950, 15200	AIR	INDIA	25/1	HJS
1900	11510	VORWS	RUSSIA	5/2	RP
1900	11620	AIR	INDIA	19/2	AD
1900	11980	BBCWS	UK	-	AMQ
1913	9335.2	R Pyongyang	N KOREA	21/2	HJS
1915 - 1935	13640	VOA	USA	23/1	RP
1920	9375	V of Greece (tent)	GREECE	-	HJS
1920 - 1924	17605	R Nederland	NETH	20/2	KVB
1930	13725	VOA	USA	8/2	RP
1930	17605	R Nederland	NETH	5/2	HJS
1930 - 2000	12015	VOA	USA	31/1	RP
1935	15275	D/Welle	GERMANY	-	HJS
1940 - 2000	15180	VOA	USA	6/2	RP
1945	9785	VOA	USA	1/2	RP
1945	9840	VOA	USA	2/2	RP
1945 - 2027	190, 9022.1, 11765	VOIRI	IRAN	11/2	BML
2000	3380	Malawi BC	MALAWI	29/2	LM
2000	7440	V of Mediterranean	MALTA	14/2	BML
2000	17885	VOA	USA	2/2	RP
2000 - 2016	9725	D/Welle	GERMANY	22/1	RP
2005	13660	SRI	SWIT	3/2	RP
2005	13790	SRI	SWIT	24/1	RP
2010	15185	R AFRICA	EQ GUINEA	9/2	IC
2030	15745	WEWN	USA	-	HJS
2030 - 2049	12095	BBCWS	UK	23/1	RP
2030 - 2100	15685	WWCR	USA	29/1	RP
2033 - 2036	15150	V of Indonesia	INDONESIA	18/2	KVB
2033 - 2333	15435	Voice of Africa	LIBYA	26/2	BML
2038	9535	R Thailand	THAILAND	13/2	CC
2040	11880	R Australia	AUSTRALIA	-	AMQ
2040	13660(USB)	RHC	CUBA	26/1	RP
2045	15565	WYFR	USA	26/1	HJS
2045 - 2052	11715	AIR	INDIA	24/1	RP

2115	15135, 17560	D/Welle	GERMANY	-	HJS
2116	9900	R Cairo	EGYPT	19/2	AD
2122	11715	AIR	INDIA	21/2	AD
2124 - 2145	17560	D/Welle	GERMANY	29/2	GYM
2127	9680	REE	SPAIN	20/2	AD
2130	12172(USB)	WGTC	USA	25/1	HJS
2130	13745	VOIRIB	IRAN	28/1	RP
2135	15135	D/Welle	GERMANY	21/1	RP
2145 - 2158	15240	VOA	USA	21/1	RP
2157	15665	WSHB	USA	4/2	HJS
2157 - 2346	21740	R Australia	AUSTRALIA	29/2	GYM
2200	12172(USB)	WGTC	USA	4/2	RP
2200 - 2206	12080	BBC	UK	28/1	RP
2215 - 2230	17650	WHRI	USA	21/1	RP

marketsquare@radiodx.com

For sale - "Equinox" baluns, 9:1 ratio housed in waterproof box, standard PL259 UHF plug connection, easily converted for two wire of single wire aerials, designed for broad Ormandy, 33 Greta Street, Oamaru 8901, tel 03 434 5931, e-mail paul@radiodx.com

tv.fm@radiodx.com with Brian Withers in Taradale

Your Editor has logged 88.3FM Napier, Solid Gold 93.3 & 97.5, The Edge 93.0 Palm. North, Life FM 95.7 & Rhema 97.3, Wairarapa FM 90.1, Radio Sports 89.4 & 95.4, 92.7.

STATION NEWS:-

The Edge in Wellington on 97.5 now. 88.3FM started up in Napier City area on 4 March with format of Dance Music. (via Brian Withers)

New station in Mole Creek Tasmania on 88.0 broadcasting 24 hrs a day. Format information about area & country & western music. In North Eastern & Eastern parts of Tasmania a community licence will be on sometime this year. Frequencies not know yet or locations. 7TAB now called TOTE Sports radio. (via Martin Greer)

WHEN IN NAPIER LISTEN TO INSTRUMENTAL FM 100.2 MONDAY To FRIDAY 7am to 4pm.

FM / TV DX trail of Martin Greer Launceston Tasmania:-

8/2 East Gippsland FM at 2.28pm with Ballarat FM, Melbourne FM including 3RIM 97.9 & Ringwood on 98.1 at 8.15pm. Mt Gambier FM at 9.09pm. Ballarat FM 11.58pm. 14/2 TVOne Hedgehope at 11.52pm. 15/2 RTQ0 at 2.14pm.

Note from C. Ed. I would like to thank Brian for his many years of compiling the TVM DX column. Being a section editor is a hard, (usually) thankless task and everyone deserves a break sometime. We require a new section editor IMMEDIATELY. The editor needs to have Internet e-mail access, both for receiving contributions from members and for delivering the completed column to the Chief Editor. The column can be typed up into an email message - no word processing software is needed. The editor does not have to be based in

New Zealand. At this point I would like to nominate ROBERT KRIGER as a suitable replacement. Hi Robert, how are you? :^). Anyone able to help out here, please contact either Andy at editor@radiodx.com or Bryan Clark at admin@radiodx.com. Thank you.

DON'T BELIEVE EVERYTHING YOU READ ON THE RADIO !

The internet is now very much part of the media scene, alongside radio, television and the printed word. But in my own experience, I think that people have still to come to terms with the fact that this gi-normous source of information contains both good and bad information, truth and fiction. Over time we learn to trust our local newspaper or broadcaster as a source of accurate information. But the internet has enabled millions of people to put their own information into the public domain, potentially with no constraint as to its authenticity.

I've been looking at 2 internet websites that demonstrate the internet's power to tell stories with a radio connection, but which may not have any factual foundation.

Recent detective work by journalists from Radio NZ International brought to prominence to a new internet website which introduces us to the Republic of Howland and Baker. This is an island group in the Central Pacific Ocean, just north of Kiribati, about 2500 kilometres southwest of Hawaii. Howland Island is best known as the last known destination of American aviator Amelia Earhart, who was lost in the area while attempting an around-the-world flight in 1937.

At this website, there's comprehensive information about the history of the Republic of Howland & Baker, the politics, investment opportunities, how to get there by sea and air, current news stories from the local newspaper, and even mention of an AM radio station. I haven't heard of any DX listeners hearing Radio Howland Baker as yet, but if they did it would rank alongside great radio hoaxes of the past like Radio Nibi Nibi.

Because The Republic of Howland & Baker Islands is one of the best examples of what is called an alternative history website. It is a complete fiction, a forgery, born out of a "what if" question — what if Amelia Earhart had reached the Howland Island and what if the islands had been used as a military base during World War II.

But if you want to learn more about the Republic of Howland & Baker Islands from the internet, point your web browser at www.metro2000.net/~stabbott/visithowlandbaker

Thanks to a tip in the excellent Cumbre DX email newsletter I have also discovered another intriguing Internet website at <http://members.tripod.com/~eyreland/radio.htm>. This website, which I think originates from Australia, has a proposal that Radio NZ International be given funds for a second shortwave transmitter that could be leased out for rebroadcasts by other organisations. There's also a proposal for a high-powered "Radio Marti-type" MW transmitter in the Falkland Islands to beam BBC and other broadcasts into South America. And another proposal to privatise Radio Canada International's Sackville transmitter site.

The New Zealand proposal includes a draft letter to be sent to the NZL Prime Minister supporting purchase of a second shortwave transmitter for Radio NZ International. But RNZI management advise they know nothing about the site and have not been approached regarding its proposal. So, here too, is an internet source of information that can give the wrong impression.

Despite a lot of spelling mistakes, it's also an interesting read, but a reminder to posi-

tively identify the source and validity of the growing sources of information that come our way! - Bryan Clark, March 2000

THE FUTURE IS DIGITAL – TELL ME ABOUT IT !

by Robert C. Bartz, Broadcast Systems Engineer, FEBC Philippines

Let's take a look at a of key areas where digital technology is going to benefit the listeners and then try to come back to define digital as it applies to FEBC.

DIGITAL AUDIO

One of the first areas to be affected will be in the audio area. This includes the recording and production of programmes for broadcast. There are some aspects of audio production that will be dramatically improved as a result of digitizing this aspect of the ministry:

1. The noise associated with tapes and record players will be a thing of the past. No more pops, skips, or hiss.
2. Putting a program together will be much less time consuming for the programming people. Rather than investing energies in the mechanics of production, they can invest it in creatively sharing the message.

Ultimately, this will mean a clearer and more understandable programme for our listeners. So moving to digital will mean an improvement in program quality for our listeners even with their existing radio receivers.

DIGITAL BROADCASTING

The second aspect of digitalisation will be the replacement of analogue transmissions with digital transmissions. This means that listeners, in order to benefit from the improvements will have to get a new radio. However there are some key improvements that will immediately be heard when the digital system is in place.

1. More people will be reached with the digital transmissions than with analogue transmissions because of the digital receiver's increased sensitivity.
2. Typical interference that disturbs programs on MW and HF bands will no longer be present. Listeners will not have the frustration of having a program fade out on them or having to listen to a noisy programme. When the programme is present, it will be clear.

The immunity that a digital signal has to noise means that the programme will become so much clearer and intelligible to the listener. The message of the programme is more easily understood. The listener can find the programme more readily and does not have to focus as much on the mechanics of listening, but more on the actual content.

One of the best illustrations I can think of is to take a wad of magnetic tape, unroll it and then try to find a particular part of it. You won't be able to play anything because the tape is all tangled and crumpled. Then take out a CD, pop it into your computer, and play something out in a matter of seconds.

What this ultimately means for the listener is that they will be able to hear a clearer presentation, given more creatively by programmers able to focus on content rather than on the mechanical drudgeries of radio programme production. Even though digital technology is more difficult to understand, the results are better than could ever be consistently obtained using the analogue technology. Analogue is rapidly becoming obsolete. To ignore digital technology is to eventually be isolated from listeners and unable to communicate with them. (Reprinted with permission of FEBC/FEBA NZ)

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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