



New Zealand DX Times

Monthly journal of the

New Zealand Radio DX League (est. 1948)

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<http://radiodx.com>



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

Millennium Celebrations on January 1, 2000 sure brought home to us just how small our world has become as we watched the world celebrate live on TV3 and CNN. Spectacular live fireworks from Sydney, Paris and Toronto, whilst our friends and family in those cities watched the celebrations in Auckland. These global broadcasts on free-to-air and cable TV are a long way from early last century, when founder members of our club first tinkered with crystal sets to listen to the few radio stations on air.

As we watched the new millennium roll across the timezones of the world, did you realize that the concept of dividing time into zones is a very new one? **Barry Williams, Auckland** writes "time zones are something I've always accepted and never given much thought to. However, in the December 27 1999 issue of TIME magazine there's a very good article called 'The Riddle of Time' and here's a brief extract on the origin of time zones: ' Then came trains and factories, and with them, the need to co-ordinate the schedules of hundreds, and even thousands of people. It was the railways that invented timezones, in 1883. Because of the earth's rotation, the sun was highest at different times in New York City and say, Washington, which lay a bit further west. The eleven minute difference in local noon could lead to disasters at rail intersections." And, of course, the reason why the new day starts in New Zealand is because we're in the middle of the Pacific. This is the part of the world with most water and less populated land. Imagine the problems if the new day really began at Greenwich? You'd be crossing from one day to the other by crossing the street!

David Miller, Dunedin carries on our time theme with this item: 'one thing that always throws a DXer or anybody talking to someone in another country is time conversion. Here's a website with a World Clock: <http://www.timeanddate.com/worldclock/> which I'm about to check out as I'm needing something like this to talk to people overseas.' As anyone who receives phonecalls from European relatives at 2am because they have no notion of time differences can agree, getting the time right can make or break a good night's rest! Of course, you can always phone them at 2am their time. We did. They now understand the time difference!

JUST A REMINDER that The Continents Listings column will be in next months edition of The DX Times. The featured Continent is **Africa** so please send in you're list of the best QSL you have from there to me by the end of the month - Andy McQueen

Contribution deadline for next issue is Wednesday Feb 2nd - PO Box 3011, Auckland

Jack Searle, Haumoana joins in this timeless debate with the view *'the matter of Bandwatch listings in time order was defeated at the AGM, and in my opinion, quite rightly so. Such a listing would be a mess of jumbled up entries that would be almost impossible to follow. Now, we're going to continue with such a listing as a separate section for reason's I can't follow. If the section were to list only broadcasts in English it could possibly be of use to some members.'* and adds, *'why do Bandwatch Editors now ask that dates of loggings be listed? What can this achieve? This is a waste of space.'* [CE note: As I am able to edit each bandwatch entry and abbreviate words until the entry fits best, the addition of dates usually does not take up more space, making this argument mute. On the subject of the Time Order bandwatch, we are able to carry this column due to space savings and printing cost reductions. People who find this column useful, please advise us! - Andy]

David Norrie, Auckland meanwhile, writes *'I think a big thanks are due to Ken Baird and Mike Butler for their English broadcasts schedule published last month. Truly excellent and would be a useful stand alone publication to lure new members to the club, at least in the Pacific.'*

Keith Brookshaw, Totara Flat, West Coast agrees. Having just rejoined the club after some years absence, he says *'regarding the English broadcasts list in the December DX Times - excellent, and very useful. I've been using the Benelux DX Club list of transmissions to Europe and the US from the Internet with very mixed results. They also have DX programs listed. The site is <http://www.425dxn.org/swls/bdxc/page21.html>. I've also been having fun with my Drake SPR4, a bit different to the Sony 6800W I had 14 years ago. I really feel like a DXer, turning the dials left, right and center!'*

Mark Nicholls, Wellington completes this theme of time: *'moving from Christchurch to Wellington, and having my mail redirected, has made me think about QSLs I may miss when the redirection order expires! I know some members have received QSL's back after many years when the station cleans out old files or a new CE comes along. Maybe members could share with Talkback some details of the longest time between sending out a report, and getting a QSL back. Did it just arrive? Were followups sent? Did the station give reasons for the time delay?' Well, my contribution would be some 9 years! In 1972, I heard KMTM Midway Island on 920 with 250w and sent my report. Years later, I was visiting another DXer and got chinwagging about great catches that never verified. Imagine my surprise as he shows me his QSL letter from KMTM, heard a few weeks after me back in 1972! Imagine my shock at seeing the words 'we were also heard by David Ricquish' and listing my reception details! And, as some members know (and, frankly, sick and tired of hearing about it! - Andy :^)), I'm still waiting for Bahamas (1973) and Cuba (1970) so maybe I'll set a new record yet! I'm not holding my breath!*

Worldspace Satellite Radio launched Afristar in late October 1998, and has spent the past year testing. Now, it's begun the first commercial direct satellite radio service to Africa. One beam from Afristar covers 14 million square kilometers, and they have three such beams. The first covers Africa, the others will blanket the Middle East and Mediterranean. The rollout began in South Africa, where former President Mandela is an open supporter, to be followed by Nigeria. Receivers will then be distributed in order to Kenya, Ghana, Senegal, the Ivory Coast and the rest of the continent.

Hitachi, JVC, Panasonic and Sanyo make the Worldspace receivers, that downlink audio and multimedia programs directly from Afristar using small antennas and chipsets. It's taken Worldspace ten years of planning, financing and engineering to reach commercial

launch. (Via Satellite, December 1999)

Meanwhile, Mark Nicholls also looks to the future with the following item based on a report called 'Opportunities in streaming media' which 'estimates an active world monthly market of 45 million streamers. One-third of US internet users now tune into Internet Radio, or around 30 million people. Users are an increasingly international group, with one-third of downloads now originating outside North America.

Each week, 45,000 hours of live content are broadcast over the internet; some 3,000 radio stations were webcasting at the end of the last century; over 125 TV stations are webcasting, including 58 from the USA; more than 4 million users have digital music players (up 400% during 1999) and there was a 100% growth in just the last 4 months of 1999. In August, the BBC Online solar eclipse microsite served 1 million viewers in just one day. The BBC estimates that its streaming audience of 1 million a month, is growing by 100% every 4 months.

For more information about the report, broadband expansion, and its implications for handling multimedia services such as radio and TV, check out this site: <http://www.visionconsult.com/summary.htm> and have another glimpse of our media future.

Shortwave a historic relic: Traditional broadcasters have created a familiar radio landscape for listeners and radio enthusiasts like ourselves. Powerful home country based transmitters, linked to relay stations, and local networks that began on AM and gradually moving to FM in many populated areas. Late last century, we saw diesel polluting 500kW transmitters on small islands like Bonaire poised for migration to FM and satellite program delivery. We saw Worldstar launch a satellite direct to receiver radio service across Africa. We saw audio streaming (or using the internet to hear web radio and TV) boom to reach 30 million listeners a month.

We saw the start of the wireless internet, and the use of mobile telephones as wireless internet receivers. We're seeing a convergence of technology that is changing our radio landscape in front of our eyes. Dr Nicholas Negroponte, founder of the MITMedia Lab in Cambridge, Massachusetts told me the watershed was in 1995. In that year, more personal PCs were sold into American homes than TV sets.

Five years on, I'm writing this listening to an FM station in Paris, and later today, I'll watch live TV from Chilevision in Santiago, Chile. On our cable system we have BBC World Service radio, BBCTV, CNN, CNBC-Asia, Bloomberg TV, C-SPAN, Deutsche Welle TV, MCM-TV Paris and the world of shortwave radio seems like it's from another century. For convenience of listening to programs, or being a SWLer, there's no doubt that shortwave and AM radio are becoming historic relics in comparison to the quality of audio achievable via webradio.

Fortunately, there's no replacing the magic of radio. I once stood in the middle of a sugarcane plantation on the Hawaiian island of Kauai, and stared up from the base of a tall tower towards the blue sky. As night would fall, 5000 watts from a tiny transmitter at the back of a Dairy Queen franchise down the road would power the tower and send the music of KUAI 720 all the way across the Pacific, down to my hometown of Christchurch.

I still can't figure out how it all happens. It just does. It's still magic to me. And, it's still magic to our growing roll of members and readers of this fine magazine who join us again this new millennium!

David Norrie, Auckland continues *'how about members contributing their current DX targets? It would give active members an insight into other club members interests and might stimulate a bit more DXing.'*

I find the tropical bands the biggest challenge, especially Latin American stations. Not the best time of year to hear them currently. Miskut on 5770USB is a real tricky one to get a clear ID as are some low band Indonesians. The African Minurca on 9900 would be a great catch in NZ also. Eventually, I'd like to get into MW DXing, especially USA stations, but my current urban location doesn't help'

South Pacific DX Report begins this month on two new outlets. Hear Paul Ormandy's informative shortwave program every second Sunday from January 23 at around 8:30pm on David Miller's NUU COUNTRY show on 4XS Hills AM 1575 Dunedin and every second Saturday from January 29 at 4:15pm on 2YB Access Radio 783 AM Wellington. Both programs also encourage listeners to join the club and receive the DX Times.

We want to place the program on other local access radio stations. If you live in Invercargill, Christchurch, Nelson, Kapiti, Palmerston North, Napier, Hamilton or Auckland, you could help get SPDXR on your local access radio. Please contact me at talkback@radiodx.com or write to PO Box 14339, Wellington if you can help this project. What better way of reaching people interested in radio than by using local radio!

Next month, Ian Cattermole shares a survey of sending e-mail reception reports, and how the replies came back. It's a real eye-opener! Now, I wonder if you're as disappointed as me that the WRTM 2000 only lists international shortwave stations, no tropical band or domestic services. For a publication claiming to serve the DXer to fail to provide such a list seems to be a fundamental flaw. As always, the column is yours to share, and we hope to hear from you in the coming months.

In the meantime, my station of the month is Radio Bleue from Paris. One of the Radio France networks, this one broadcasts classic French hits of the 1960s and 70s, and has no commercials. It occupies many of the former ORTF domestic transmitters on AM, including the Nice outlet on (now) 1557 which can sometimes be heard in New Zealand. I have a QSL from 1971 when they used 1554. You can also find them via their own website, and at the bigger one: <http://www.radio-france.fr> so, enjoy. Ciao.

editorial@radiodx.com with Andy Gardner, Mexico

Hi everyone. I have to keep it reasonably short again this month, as we have another bumper issue, full to overflowing with great radio stuff.

I have been spending some of my spare(?) time updating the NZRDXL website at <http://radiodx.com>. If you haven't visited recently, take a look. We now have a searchable database of Radio related websites. That went live today so please go there and add as many sites as you can. We want to build it into the definitive Radio Site List on the Internet, to get the DX League more exposure. Also, I have added a page that provides you with a list of all the links appearing in each edition of the DX Times, so instead of typing in the links appearing in the magazine, you can go to that page, and click each link!

As a quick indication of the space saving improvement we can now make, after adding the Bandwatch columns to this month's mag, I was going to have to hold over the Digital Broadcasting feature until next month, but by selectively abbreviating word in certain Bandwatch entries, I was able to fit it in again! Magic!

And finally, just minutes before going to press I received an e-mail from Chris Wright notifying us that Dxing With Cumbre's 0800UTC transmission to the South Pacific has been cancelled, so update the DX Programmes List ing in your December 1999 DX Times!

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

Welcome to the first 'Shortwave Report' of the new millennium! Your editor has been found to be Y2K compliant, so it's on with 2000! All times in UTC, and frequencies in kiloHertz (kHz) Sources: Cumbre — Cumbre DX newsletter; DXLD — Glenn Hauser's DX Listening Digest; BCDX — Worldwide DX Club; VOA's Communications World program; Ripple — The Ripple email list supplied by NZRDXL.

Argentina: RAE sked to Mar 5 0900-1200 6060, 15345 Spanish; 1000-1200 11710 Japanese; 1200-1400 11710 Spanish; 1800-1900 15345 English; 1900-2000 11710, 15345 Italian; 2000-2100 11710, 15345 French; 2100-2200 15345 German; 2200-2300 9690, 15345 Spanish; 2300-0000 9690, 15345 Spanish; 0000-0200 11710 Portuguese; 0200-0300 11710 English; 0300-0400 11710 French. All transmission Mondays to Fridays. The most important local soccer matches as well as those of the National Soccer Team are broadcast in live during the whole week over frequencies 6060 and 15345 kHz. QTH: Casilla de Correos 555, Correo Central, 1000 Buenos Aires, Argentina. Fax 54-11-4325636 E-mail barrera@arg.sicoar.com (Slaen, in Cumbre)

Brazil: Radio Trans Mundial (RTM), Sao Paulo. Effective December 24, RTM will change the frequency of its daily broadcasts from 11705 kHz to 11735 kHz. This is done in order to comply with orientations from the Ministry of Communications of the Federal Government of Brazil. Tests for this alteration have already started. The schedule from Dec 24 on will be the following: 5965, 9530 and 11735, at 0700-0100, in Portuguese. RTM Brazil's programs are also broadcast from TWR Bonaire, 800, daily at 0700-0900 and 2300-0000. Radio Trans Mundial requests reception reports about this change. Accurate reception reports will be confirmed with QSL cards. In December RTM is issuing a new edition of its QSL card. RTM's mail address is: Caixa Postal 18300, 04626-970, Sao Paulo - SP, Brazil. Electronic mail that may also be used for these reports are transmun@dglnet.com.br (Radio Trans Mundial or amigosdoradio@transmundial.com.br (Rudolf Grimm/Jose Eduardo Dias (Radio TransMundial, via Ripple)

France: Radio France International current sked for India: 0100-0200 17710(C) French, 0100-0200 15440(C) French, 1400-1500 11610(C) 17560 17620 English, 1400-1500 17650 French, 1500-1600 15605 French, 2300-0100 9805 French. China/Korean peninsula: 0930-1030 9810(R) 9660(J) Mandarin, 1030-1200 9830(J) 7140(J) French, 1200-1300 7430(R) 7140 Mandarin, 2200-2300 7315(R) 7430(R) Mandarin, 2300-0100 12025(R) 15535(R) French. For South East Asia: 1030-1200 9830(J) 11890(J) French, 1100-1200 12015(R) Lao, 1100-1200 11600(C) French, 1200-1300 11600(C) 12015(R) Khmer, 1400-1500 17620 English, 1400-1500 6120(J) 11985(J) Vietnamese, 1600-1700 6090(C) French, 2300-0000 12075(R) 17890(R) French, 2300-0030 9805 15440(J) 17710(J) Relays: (C) China, (R) Russia, (J) Yamata, Japan (Extracted from current RFI sked by Francis)

Germany: Voice of Democratic Path of Ethiopian Democracy ("Finote Demokrasi Ye-Ethiopia Andinet Dimts" in Amharic) is a new program via Deutsche Telekom at Juelich, on 11670 Weds 1600-1700, also Suns 0800-0900 on 21550. (Various) Deutsche Welle made many changes to its schedule on Jan 1, including the deletion of Portuguese, Japanese, Russian and Spanish language services on shortwave. Changes to English include: add 0100-0145 9765 via Sackville; delete 0400-0445 11785; delete 1300-1329 6140; add 1300-1400 6140 via Julich; add 1400-1500 6140 via Julich; add 1500-1600 6140 via Julich; delete 1900-1945 11785

via Wertachtal. Andreas Volk, BCDX and Greenway, Cumbre)

Guam: The following is a letter I received from AWR, KSDA in Agat, Guam with my QSL card: "This is to let you know that Adventist World Radio is centralizing the Listener mail dept. Instead of handling listener's mail in different areas, it was felt that we can be more effective if this would be handled just in one place. It was, therefore, decided that listener mail to Guam be phased out and all our monitoring be handled by Bernd Friedewald in Germany in cooperation with our Frequency Coordinator. In view of this change, we are requesting you to send your reports to the following address where you will receive further information: ILG Software, Bernd Friedewald, PO Box 1112, D-34567 Homberg, Germany. E-mail awr.monitor@ilgradio.com Reception reports will no longer be processed here on Guam. Guam Listener Mail Dept." (Veldhuis and Mizuno in Cumbre, Dec 16)

Hawaii: As of Jan 1, Que Huong Radio will expand its transmissions on shortwave as follows: Mon-Thu 1300-1359 on 9930, Mon-Sat 2300-2359 on 17510 (Maes, Cumbre) These programs, produced by an American-based organisation, are transmitted via KWHR (Francis)

Israel: Israel Radio International has added 7475 for English 0500-0515 (Moshe Oren, in DXLD)

Kazakhstan/Tajikistan: 9920 via Kazakhstan, Voice of Tibet from Oslo Norway, 2309-2359*, open carrier with tones until 2312, three pips and instrumental mx prior to opening announcements and ID by woman at 2315. Long talk program with closedown announcement at 2358. Fair. (Richard D'Angelo/FCDX-PA, NU, Dec 18 via BCDX) At 0100-0145 Voice of Tibet 9920 Tajikistan, 1215-1300 9910 Kazakhstan, 15650 Tajikistan. (Wolfgang Bueschel, BCDX) Has added Chinese which commences at 1245 immediately after the Tibetan program (Mizuno Mitsuki, Cumbre)

New Zealand: Radio New Zealand International schedule to March: Mon-Fri 1650-0605 17675; Daily 0606-1005 17690; Sat-Sun 1850-0605 17675. Occasional Use 1105-1505 6105, 1505-1650 6145 (Adrian Sainsbury, via Ripple)

Pakistan: 3663 Azad Kashmir Radio noted Dec 31 at 1600 with relay of R Pakistan news in English, regularly a fair signal in N India //792 & much stronger 4790v in local evenings. Afternoon frequency 7267v is also well heard, e.g. at 1000 on Jan 1. In general this station sounds much like a standard R Pakistan regional, with frequent relays of news and other programming from Islamabad. (Davies, Cumbre)

Sri Lanka: SLBC is using new 11670 for its Middle East service in Sinhala 1615-1845. (Various, BCDX)

Switzerland: Ron Popper, head of English at SRI, tells me that SRI will continue broadcasting on shortwave until its current franchise expires in 2002. In the meantime, other media, particularly the Internet, are being developed. While there is a shift to other media, it has not yet been decided that SRI shortwave will end after 2002. Only one shortwave broadcast transmitter remains in Switzerland. SRI leases time via Julich, Germany, and other sites for most of its shortwave coverage (Kim Elliott, Communications World, VOA, Dec 17) What remains of SRI's home-based operations can be heard from Sottens: 9885 0030-0545 and 2200-0000, 11910 1830-2130, 13685 0830-1030, 15185 1400-1615, 15555 1630-1815, 17665 0600-0815, 21770 1100-1330 (HFCC via Francis). The 1998 edition of the "Transmitter Documentation Project" (TDP) by Ludo Maes reminds us that there used to be shortwave transmitters used by SRI at Lenk, Sarnen, Schwarzenburg and Bermomunster, as well as Prangins pres Nyon which was used by the UN. (Francis)

United Kingdom: Radio Free London is being heard by Dxers in the Pacific on 15060 in

the 0800-0930 period, including Bryan Clark who heard them on Jan 12 & 13. Very weak signal heard in Canberra around 0915. Their website gives this frequency and announcer line-up. Postal address: RFL, 101B Kings Cross Road, London, WC1X 9LP, or email to RFL@England.com. Their web site is at www.geocities.com/SunsetStrip/Villa/2375 (Francis)

USA: WGTG owner Dave Frantz reported on his "Survival Communications" program at 1800 Monday that starting December 22, 1999, transmitter #2 that is currently on 12170 USB from 1300-2300 will be moved to 12172 USB due to a request from the Army Materials Command, who already uses 12168 USB for an emergency communications network. He also reported that he is proceeding with installation of alternative (solar) power for his station in case of power outage. He plans to do some tests soon with 5kw power on 6890 USB and 5kw on 5085 USB, both powered by solar to see how far the lower power will get out. He also says that there will be testing at 100w SSB but did not specify a frequency at this time. No testing schedule was given; Dave indicated that it would be announced on the air soon. (Johnathan Grant, Dec 20, DXLD) I heard them on 12172 USB with a good signal on Dec 28 around 2030-2100 (Francis) WBCQ heard by various DXers overseas testing its second transmitter on 9340 USB in late December 2000-2100 period. WMLK 9465 1950-2001 Preaching about the Assemblies of Yahweh, call 1-800-522-2827 or write to P.O. Box C, Bethel PA 19507, etc. Very strong signal but undermodulated, not heard in a long time. Back on full power? (Yocis Dec 30) See past Cumbres, actually they have been off. Called them on Jan 3 and was told they are back on with low power and new antenna, testing between 1700-2200, but may not always be on as they are testing. (Johnson, Cumbre)

Yugoslavia: Radio Yugoslavia is now on the air on a single frequency only, instead of two in parallel. Transmitter site is in Bijeljina, Bosnia. 1530-1600 Arabic 11800, 1600-1630 Russian 6100, 1700-1730 French 6100, 1730-1800 German 6100, 1900-1930 Russian 6100, 1930-2000 English 6100, 2030-2100 Serbian (Sun to Fri) 6100, 2030-2100 (Sat only) 6100, 2130-2200 French 6100, 2200-2230 English 6100, 0000-0030 Spanish 9605. (Observer, Bulgaria, Ivo Ivanov, in BCDX)

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

Very small mailbag this Month. **FOR THE FEBRUARY NOTES COULD YOU PLEASE SEND TO BOX 3011 AUCKLAND AS I WILL BE IN BRISBANE FOR THREE WEEKS. I WILL BE BACK HERE ON FEBRUARY 17. THANK YOU.**

First up this month is Lindsay Robinson Invercargill with Radio Australia via Taiwan 11550, Radio Anhanguera Brazil 4915. Lindsay has 9 more loggings out.

Arthur de Maine Wellington has The voice of Vietnam 9830 back with 3 reports out.

Paul Ormandy Oamaru has just the one back La Voz de la Selva 4825 [em] How is the leg coming along?

Paul Peacock Blenheim also has one only verie Radio Prague 11600.

Ian Cattermole Blenheim With his usual lengthy list. Que Huong Radio 9930 [em] VOA Morrocco 13640, Radio Sweden 13800,7345, 9425, Swiss Radio International 17685, 21750, 21770, Radio Prague 15255, Radio Korea 9640, Radio Havana 13605, Voice of Russia Dushanbe17495 [em] Chita 17580 [em] Petro 17595 [em] Khabarovsk 15525 [em], La Voz De Espana 5980, Radio New Zealand 15325, WRMI 7460, Radio Taipei via Skelton 3955, VOA Greenville 6873,18275 [em], Voice of Mongolia 12015, 12085, Canada Radio International 9770, RTE Ascension 21630, RTE Sackville 13640, Radio Vlaanderen Bonaire 11980, Radio

Tashkent 15295, Voice of Greece 17565, Radio Clube Paranaense 9725, REE 17575, Radio Taipei International 15215, 17845, WHRA 7580, RDP 17725, 13770, Radio Australia Shepparton 21820, KOL Israel 15650. Great month lan.

Jack Searle Haumoana has them back from WYFR 15565, Radio Vlaanderen International via Julich 13600, Radio Africa #2 15185.7. Nice one Jack.

Ray Crawford Brisbane has Voz Christiana 6070, Radio Nederlands Madagascar 6020, Caribbean Beacon 6090, Radio Anhanguera 4915. See You Soon.

Best of Month Under 9MHz Radio la Voz de la Selva 4825 Paul Ormandy. and Radio Anhanguera 4915 Lindsay Robinson [I notice that neither of these stations are listed in the World Radio Handbook Shortwave listings. Only received the book today so will have to delve more deeply into it. Over 9 MHz Radio Africa Equatorial Guinea 15185.7 Jack Searle

Thanks to all the contributors who sent their best wishes for the New Year.



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

- 2410 0937 PNG, R Enga poor/fair in Pidgin, with relig prgm, NBC news and weather, ID 1014 — KVB 28/12
- 2850 0930 NTH KOREA, R Pyongyang fair/moderate w/ tradit. & pop music - KVB 28/12
- 2899.1 1230 INDONESIA, Unid in weak Indonesian possibly an RPDT2 stations - DN 10/12
- 3205 0952 PNG, Unid with cookery and gardening lessons in a mixture of EE and pidgin, improving to good by 1018, suspect this is Sandaun — DN 7/12
- 3214.9 1014 INDONESIA, RRI Manado with ID in Indonesian at 1014 — DN 7/12
- 3310 0823 BOLIVIA, R Mosoj Chaski fair in eth lang with variety of mx, ID 0830 - KVB 26/12
- 3315 1224 INDIA, AIR Bophal with news in unid language, fair to good — DN 10/12
- 3325 0906 PNG, R Bougainville fair in Pidgin with classical music and NBC news and weather, ID 0913 — KVB 26/12
- 3381 1022 STH KOREA, V of The People (tent) fair with OM/YL in KK & eth mx - KVB 28/12
- 3850 0919 PNG, R Independence, in pidgin, ID at 0919, with pop music. Weak to poor, with deep fades and peaks, think this is about 60W so not suprising — DN 7/12
- 3960.2 1022 INDONESIA, RRI Palu fair to good, Indian type singing and announcements in Bl at 1030 but no Id for 25 minutes. Biak also on 6153.4 at 0955 — DN 20/12
- 4769.9 1742 NIGERIA, R Nigeria poor/fair in EE — BML 27/12
- 4770 1011 NTH KOREA, R Pyongyang with typical singing, short comment between songs, off by 1028, very intermittent signal — DN 20/12
- 4790.4 1800 PAKISTAN, Azad Kashmir Radio w/ call to prayer as Ramadan begins, good - DN 9/12
- 4820 1737 BOTSWANA, R Botswana in EE with Christmas carols, ID 1800, fair — KB 26/12
- 4870 1229 SRI LANKA, S L BC(Tent) in unid lang but w/ strng Indian overtones - DN 10/12

- 4975 0857 CHINA, Fujian PBS with good signal // 5094 — DN 12/12
- 5009.5 1840 MADAGASCAR, R Malagasy fair/good with Afro music — BML 27/12
- 5035 0703 BRAZIL, R Apareceda poor/fair in Portuguese, improved 0745 with news at 0730 // 6135 fair, 9630 fair(QRM), ID 0724 & 0746 — KVB 13/12
- 5085 0707 USA, WGTG gd in EE tlkg abt Y2K emerg. arrangements, ID 0708 - KVB 25/12
- 5745 0831 USA, WHRI good in EE with ID & DXing w/ Cumbre//7315 the same - CC 18/12
- 5800 1740 TAJIKISTAN, in USB in unid language. YL with ID then music, good — KB 15/12
- 5835 0755 USA, KAIJ good with Dr Scott prgm on this freq change — IC 23/12
- 5915 1754 SLOVAKIA, R Slovakia Intl good in EE w/ Listeners Tribune prgm & ID //7345 strnger - CC 5/12
- 5930 1825 CZECH REP, R Prague good in EE w/ story, ID & music //7315 stronger - CC 5/12
- 5955 0932 COLOMBIA, R Caracol Villaicenzio repoting news of Venezualan floods and "Santander", frequent Caracol IDs, nothing on // 5075 — DN 20/12
- 5970 1935 ITALY, RAI fair in EE — BML 27/12
- 5975 0850 GERMANY, V of Hope, Julich fair in EE with relig prgm, ID with Hereford address at 0900, faded sharply around 0930 — PWO 27/12
- 6015 0800 GERMANY, Radio for Remsheld & Solingen with Jan 1st broadcast only on SW, German with EE songs, signal peaked during 4 songs, didn't catch ID, have e-mailed report - PRP# 1/1
- 6019.8 0731 PERU, R Victoria, Lima w/ sermon & strng outbrsts of "Victoria Senor" - DN 13/12
- 6029.6 0851 CHILE, R Santa Maria (V tentative) s/on at 0851 with flute/pipe music and local singing. Impossible to ID due to competition on 6030 from Chinese stn, R Marti and Cuban jammer! - DN 3/12
- 6070 0822 CHILE, V of Christiana good in SS w/ mx & commtry // 15375 weaker - CC 2/12
- 6080 0803 BRAZIL, R Novas de Paz with mention of Curitiba in Portuguese, fair - DN 7/12
- 6080 0826 BRAZIL, R Navas De Paz fair in Portuguese — IC 23/12
- 6105 0900 USA, WYFR v good in Spanish — IC 23/12
- 6165 1840 ZAMBIA(tent) with music and comments, v poor - NMK 16/12
- 6195 1305 SINGAPORE, BBC WS good in EE with World News - KAB 18/12
- 1900 ??? BBC WS with news in EE after ID, v poor — NMK 16/12
- 6290 0650 NETHERLANDS, Pirate Alfa Lima Intl fair with back to back EE pops till 0700 then full ID with mailing address etc. Another weaker pirate noted on 6275 also with pops as well as unid Spanish Stn on 6980 — PWO 26/12
- 6315 1840 ETHIOPIA, V of Tigray Revolution fair with Afro music and mention of Tigre / 5500 — BML 22/12
- 6480 1805 STH KOREA, RKI in GG w/ cmtry. on Nth Korea & USA, ID 1814 in EE - NMK 14/12
- 6520 1745 NTH KOREA, R Pyongyang 1757 anthem, ID 1800 then into Arabic — NMK 13/12
- 6575 0800 NTH KR, R Pyongyang(tent) all spoken w/ severe ute QRM on 6577 - NMK 12/12
- 6873 0700 USA, VOA v good with SSB broadcast in EE — IC 23/12
- 6890.3 0730 USA, WGTG on USB w/ Millenium Marathon Broadcast, full ID 0800 - GRD 1/1
- 6975 0705 COSTA RICA, RFPI w/ Glenn Hauser's Wrld of R., not hrd 2 days later - DN 13/12
- 7075 1849 TAJIKISTAN, V of Free Tajikistan?? Poor with Russian type music, open carrier from 1856 — KB 13/12
- 1900 NTH KOREA, R Pyongyang fair in EE with ID then news - KB 13/12
- 7115 1832 ??? OM with ID "Radio Ukraine" in Russian — KB 15/12
- 7125 0730 GUINEA, RTV Guineene fair to poor in FF w/ gd East African mx - GRD 23/12

- 0715 ITALY, IRRS in SSB with IDs and address with special QSLs on offer, they gave 7125 SSB as freq. — KB# 27/12
- 7145 1814 RUSSIA, excl w/ ID "Radio Rossii Nostalgie"" then bck to tlk in Russian - KB 15/12
- 7150 0600 ITALY, Voice of Malta vgd in Italian, Arabic & EE at 0700. A new freq - IC 23/12
- 7173 1818 INDONESIA, RRI Serui excellent with news — KB 15/12
- 7185 1800 BANGLADESH, R Bangladesh fair in EE with ID and news — KB 14/12
- 7200 1800 SUDAN, v good in EE with ID and news at 8:00 pm local time — KB 13/12
- 7205 1840 ??? VOA good in Spanish with talk and address and ID — KB 15/12
- 7210.1 1745 ALBANIA, R Tirana poor/fair in EE // 9754.9 — BML 25/12
- 7245 0857 ??? BBC WS fair in EE with news, ID 0900 — KVB 25/12
- 7250 1730 ??? Clandestine to Iran, R International in Persian but clear IDs, gd - BML 22/12
- 7265 0637 GERMANY, Sudwestfunk good with pop mx, IDs & ad for McDonalds - KB 13/12
- 7305 0302 VATICAN, Vatican Radio fr EE w/ hard to hear comment, IS, off at 0310 - CC 5/12
- 7345 1830 SWEDEN, R Sweden Sundays only , v weak w/ sev. QRM from 7350 - KAB 12/12
- 7345 1258 CHINA, Central PBS good in Chinese, ID 1300 after time pips — KAB 18/12
- 1450 UNID station with relig prgm in EE, good with sloght het, time pips 1500 followed by Christmas Carol by Charles Dickens — KAB 20/12
- 1858 SLOVAKIA, R Slovakia Intl good in EE with ID, IS at 1858 then freq schedule in German then German prgm - KAB 20/12
- 0915 CZECH REP, R Prague mainly spkn w/ short mx breaks, 0930 ID, gd - NMK 8/12
- 7350 1840 FRANCE, RFI S9+20 dB in unid language, ID 1859 — KAB 12/12
- 7365 0900 USA, R Marti good in Spanish with ID 0900 — NMK 8/12
- 7365 1353 ALASKA, KLNS fair in EE with ID and music, persistent QRM — CC 10/12
- 7380 1845 CIS, V of Russia with IS, ID bthen comment and mx in Unid lang, pr - KAB 12/12
- 7385 0535 USA, WRMI relaying Br Stair on this freq shift, good in EE but noisy — IC 29/12
- 7400 1845 RUSSIA, R Maryja fair in unid language, ID 1848, female & child talking, children singing - KAB 12/12
- 7405 0440 USA, R Marti poor in Spanish with ID 0455 — NMK 8/12
- 7415 0455 USA, WBCQ fair in EE with ID 0457 and ad for Internet site — NMK 8/12
- 7450 1910 GREECE, FTH with typical Greek music, noisy in EE then into Greek — KAB 12/12
- 7465 0435 DENMARK, R Denmark fair in Danish with ID 0454 then off at 0455 - NMK 10/12
- 1040 USA, WEWN fair in EE with prayers, ID 1058 then QSY to 15745 - NMK 1/12
- 7500 1700 BULGARIA, R Bulgaria good with classical music and ID at 1710 - NMK 13/12

Thanks to all the contributors for this month. I should comment that contributors should not rely on PWBR Blue Pages for station IDs - they are a guide only. If you can't hear an ID, please show station as tentative. Still can't hear R Poland, Bill. Must do something about my antennas. 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 : GRD - Graeme Dixon, Auckland, R8A, 130ft longwire : IC - Ian Cattermole, Blenheim, JRC NRD 545, T2Fd and Alpha Delta antennas: KAB - Ken Baird, Christchurch, R5000, ATS 909: 15m wire, Eavesdropper:KB - Keith Brookshaw, Totara Flat, Westland, SPR4, 40m longwire : KVB - Kevin Brayshaw, Levin, FRG7, ICF 2001, HF Loops & 5MHz dipole : NMK - Neville Mc Kenty, Napier, R70, NRD 545,7600G &

ANLPI, Sloper, DXSW Listener : PRP - Paul Peacock, Blenheim, Sony 6800, SW Listener : PWO - Paul Ormandy, Oamaru, SPR4, numerous long wires and dipoles.

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 bandwatch.under9@radiodx.com.

bandwatch.under9@radiodx.com with Andy McQueen

2000 Millennium greetings from Trentham A special welcome to new contributors Keith Brookshaw from Totara Flat and Matt Francis of Canberra Australia. No Y2K problems here so far but the winds still blow strong and pulled my aerial down. Hey that's life. I do have an alternative plan using flexible bands. Talking about bands the higher ones are now much more active with lots of listings. All times are UTC

- | KHZ | TIME | COUNTRY | STATION & PGM DETAILS | INITIALS |
|--------|------|-------------|--|----------|
| 7150 | 0700 | MALTA | Voice of the Mediterranean Good in EE with old time jazz pgm This is Anna 9/12 KB (This station is Maltese but as there are now no shortwave transmitters in use in Malta it comes from either Italy? or Russia?. - This freq is also slightly out of my brief but I'm feeling lenient this month. - Ed) | |
| 9165 | 1801 | AZERBAIJAN | V of Azerbaijan EE sign on Faded out by 1815 17/12 BLM | |
| 9371 | 0736 | USA | WTJC Fair in EE w/ appeal for cash support, then Christmas carol 10/12 CC | |
| 9395 | 1730 | PAKISTAN | Karachi Urdu pgm // 11570 16/12 JM | |
| 9435 | 0500 | ISRAEL | Kol Israel Fair with report on Golan Heights 13/12 TTS | |
| 9455 | 0430 | TURKEY | VOT Good in Turkish with Id's by OM & YL at 0450 "Burasi Turkiyenin Sesi Radyosu" PRP | |
| 9500 | 1940 | AUSTRALIA | R Australia Gd in EE w/ talk on air traffic control & test tube trees PRP | |
| 9535 | 1935 | THAILAND | R Thailand Fair in EE with Nx of Kings birthday 4/12 EMM | |
| | 1945 | | Good with Nx in EE on shipping tragedy prior to Christmas day PRP | |
| 9600 | 2050 | SPAIN | REE Poor in EE with Spanish lessons with co-channel QRM from East European station in unknown language with documentary partly in EE interviewing Doctor about immunisation 14/12 NMK | |
| 9615 | 0805 | ALASKA | KNLS Fair in EE w/ I/sig. Id & OM w/ pgm details. Rather distrtd 3/12 CC | |
| 9680 | 0341 | USA | R Taipei Int Fair in EE with YL introducing Chinese Mx A little noisy // 15345 direct from Taiwan weaker with Id at 0347 2/12 | |
| 9680 | 2047 | SPAIN? | (Tent.)REE Moderate in EE w/ EE & SS lessns ID 2048 S/off 2056 1/12 KVB | |
| 9715 | 1200 | UZBECKISTAN | R Tashkent Fanfare Id then news in EE but mixed with QRM from CRI SIO 433 27/12 LMM | |
| 9725 | 2000 | PORTUGAL | D/Welle Simes Noisy with 45 minute EE pgm for Europe IC 2000 V/poor in EE with id at 2025 12/12 NMK | |
| 9755 | 0315 | CANADA | RCI Fair in EE with Christmas songs // 9780 much weaker 5/12 CC | |
| 9780.5 | 2015 | YEMEN | Republic of Yemen Radio San'a Fair in EE with pgm on Islam and its teachings Id as " Republic of Yemen Radio" 27/12 LMM | |
| 9785 | 0717 | ECUADOR | HCJB Quito good in EE with pgm 'Taxi Driver in Quito' 9/12 KB | |
| 9870 | 0755 | ? TWR | Good level in EE religion pgm Albanian Txer // 12070 is via Albania and equal strength #HJS (The QSL will tell the story Jack!! - Ed) | |
| 9870.2 | 1800 | YEMEN | R Yemen Good level in EE but only 50% copy #HJS (New freq or transpo- | |

sition ? — Ed)

9890 1850 EGYPT R Cairo V/good in Italian with fast Arabic music 4/12 EMM

9895 2100 HOLLAND? R Nederland V/poor in Dutch With Id at 2103 12/12 NMK

9965 2128 ARMENIA V of Armenia QRM from CC station ends then fair in EE to close at 2144 28/12 BLM

11000 0832 CHINA CNR Taiwan Sce V/good in Mandarin with swinging Music 28/12 EMM

11510 1848 RUSSIA VORWS Good in EE w/ classical Mx pgm Id at 1858 & list of SW bands in use & for the next hour but not the frequencies. Maybe they have not been notified at the studio? Further ID at 1900 then World News but mainly about Chechnya 8/1 AMQ

1910 Fair in EE about economics with Id at 1916 7/12 NMK

11570 1604 PAKISTAN R Pakistan Fair in EE with Id and News 3/12 CC

11590 0540 ISRAEL Kol Israel Strong in Hebrew IC

11600 0806 CZECH REPUBLIC R Prague Good with Nx in EE then '10 Years After' Pgm about the city of Ostravia 10 years after the end of communist rule #PRP

11615 1620 FRANCE RFI Excellent signal in EE with Millennium Year special then spotlight on Africa about conflicts around Africa # PRP

11620 1938 INDIA AIR Fair in EE with male vocalist // 7140 weaker 13/12 CC

11625 1950 VATICAN CITY Vatican Radio Fair in Italian with prayers S/off at 1959 13/12 NMK (More likely in Latin Nev !! — Ed)

11690 1612 JORDAN R Jordan Fair in EE YL with Id and plug for Kids Radio 3/12 Similar reception at 1404 on 27/12 CC

1620 Good in EE with pgm 'Latin Beat on Radio Jordan' Then Celtic Music #PRP

11710 0940 PHILIPPINES FEBC Fair in EE with some QRM IC

11730 1900 PHILIPPINES R Pilipinas Fair with Tagalog Service with half hour of English phone in greetings for 2000 #PRP

11775 0640 ROMANIA RRI In EE but suffers severe co-channel QRM IC

11800 0320 ITALY RAI Int Moderate in SS with ezi Mx Id and S/off 0325 6/12 KVB

11805 1701 OMAN R Sultanate of Oman Fair in AA with mention of Iraq Iran and America OM talking from 1726 to 1800 then Id #PRP

1750 Fair in AA with good Id following chimes at 1800 IC

11820 1550 CYPRUS BBC Arabic service with EE lessons Id and then AA mx AMQ

11850 2000 JAPAN? NHK/R Japan Good in JJ to 2030 then poor 13/12 NMK

11915 2000 CZECH REPUBLIC RFE V/good in Bulgarian with many mentions of Belgrade Romania and Macedonia #PRP

11920 1940 ? VOA AFRICA Service in EE with Music of ethnic groups in the 1950's S/off at 2000 also on // 17725 # &# PRP

11990 0710 SLOVAKIA R Slovakia Int fr-gd in EE, w/ talk about the events of the century ABD 1559 Fair in EE OM with repeated Id then into another language Distorted signal 3/12 CC

11990 1801 KUWAIT R Kuwait Good in EE with Id and pgm preview 5/12 CC

11995 1459 PHILIPPINES FEBC Strong in EE with 'Country Cross Roads' session then closing down and transmitter off. Similar reception at 1345 on 27/12 10/12 CC

12000 1730 JAPAN NHK/R Japan Poor in EE with much QRM // 15335 better IC

12020 0450 USA W WWCR Fair in EE with religious interview 26/12 ABD

12060 2100 USA WWCR Nashville Id in EE then pgm 'Freedom of Speech' 11/12 KB

12065 1114 HOLLAND R Nederland Good talking about airships 23/12 ABD (According to PWBR2000 this is a relay via Russia at Petro-K- Ed)

12070 0750 ALBANIA TWR Monaco pgm in EE with Christmas gospel pgm AMQ

12080 1153 AUSTRALIA R Australia Fair in EE with talk about Aboriginal people Some interference then off air 1155 23/12 ABD

13635 0740 GERMANY SRI Julich relay Good in EE with item on selling Tee shirts from 3rd world sweat shops AMQ

13640 1812 CANADA RCI V/Good in EE with news that Blair welcomes Tory defector 18/12 EMM (Was this a special broadcast as RCI not normally in EE at this time? — Ed)

13640 1910 ? VOA Special EE language lessons for Middle East and Sth Asia HJS

13650 0820 MARIANAS ISLANDS VOA Tinan relay Good in EE with News Now pgm Not listed on current VOA pgm guide AMQ

13690 2100 CANADA RCI Fair in EE with Nx Wx and Christmas pgm 13/12 NMK

13755 2100 PORTUGAL RDP Again on a new freq to East Timor IC

13800 2100 SWEDEN R Sweden Very good in English IC

13800 2150 ISRAEL Kol Israel Fair in Hebrew with Id at 2200 then Nx HJS

13820 0800 GERMANY Croatian Radio Excellent with 18 minutes of News in EE #HJS

15049 0314 COSTA RICA RFPI pr sig w/ Glen Hauser's EE DX pgm better after 0330 11/12 KB

15110 0610 KUWAIT R Kuwait Super signal in EE "Kuwait entity and territory" #HJS

0600 Good with News in EE and reggae and rap music # PRP

15125 0845 INDONESIA RRI Jakarta V/good in Indonesian HJS

15135 0850 CHINA CRI V/good in Indonesian about Macao HJS

15135 2115 KIGALI D/Welle Excellent in EE with Id at 2130 6/12 NMK

15135 2145 GERMANY D/Welle In EE w/ item on Swiss treatment of Jews in WW2 11/12 KB

15140 1435 OMAN R Oman Muscat Fair with EE Nx At 1455 completion of the pgm 'the spread of Islam' 9/12 JM

1540 Fair in AA with Id then OM & YL speaking with music between 10/12 CC

15150 0810 ? VOA Excellent in EE with documentary about toy bean babies 12/12 NMK

15160 2045 ALGERIA R Algiers Int Good in EE 28/12 BLM

15184.9 2000 EQUATORIAL GUINEA R Africa with EE religious pgm right through to close at 2257 15/12 Heard only once this month but at surprising strength The sked at 2215 gave out "daily on 15190" Bill says that seeing they have the frequency wrong I wonder about their daily claim ? BLM

15185 2130 ? VOA Fair in EE with News Now pgm 7/12 NMK

15185 2301 EQUATORIAL GUINEA R Africa EE ancts and addresses in Africa and USA Instrumental music to S/off at 2306 On top of co-channel VOA Has been regular here of late 17/12 MSF

15185.7 1920 EQUATORIAL GUINEA R Africa Pr/Fr up to 2000 with religious pgm in EE Fair some days HJS

1930 EE gospel pgm 'Words of Life' SIO 444 Addresses given in Malabo and Cupertino City California USA 18/12 LMM

15210 ? CHINA CRI Very strong in EE to Sth Pacific # HJS (No time given But I assume some time between 09-1100 according to latest CRI sked —Ed)

15210 2135 EGYPT R Cairo ? Long duration of chanting Fair signal Some QRN 6/12 NMK

15215 0427 SOUTH AFRICA Channel Africa ID in EE & FF " This is South Africa broadcasting from Johannesburg South Africa" Interval signal then drum beats at 0430 12/12 KB

15230 0255 CUBA R Habana Cuba In SS to Central America with Id at 0300 11/12 KB

15235 1006 NEW ZEALAND RNZI Very good in EE with Special test transmission on Nov 25

to East Timor IC
 1131 Switched here from 17675 kHz with special pgm for East Timor with interview with new Foreign Minister 18/12 MSF
 15240 1506 AUSTRALIA R Australia Good in EE with news and Id at 1506 28/12 ABD
 15240 1729 MOROCCO VOA relay Good in EE with Talk to America AMQ
 15240 2100 ? VOA Poor with Id in EE then pgm in Armenian 6/12 NMK
 15270 2045 GERMANY D/Welle vgd in GG w/ 'Helmut Kole' docmnty ID @2100 7/12 NMK
 15310 0304 OMAN BBCWS Masirah Is. rel. gd in EE w/ nx of Iraqi Oil for food deal? 11/12 KB
 15325 2212 CANADA RCI Fair in EE with 'World at Six followed by 'As it happens' at 2230 to Europe and Africa 11/12 KB
 15325.1 0525 BRAZIL R Gazetta Very good in PP but rapid fade out by 0555 20/12 BML
 15350 0815 IRAN? VOIRIB? vgd w/ traditional Arabic mx possibly a live concert 12/12 NMK
 15380 0900 PHILIPPINES FEBC fr in Makassar (Indo dialect) w/ 30 min pgm, best on USB IC
 15380 1630 GERMANY D/Welle Werchatel V/good in EE with an item on Y2K preparations Italy is equal in performance to Honduras !! AMQ
 15415 2231 LIBYA R Jamahiriyah? OM in AA Two songs in EE 'The Breeze and I' and 'My Prayer' Excellent with some fading 11/12 KB
 15420 1600 ? BBCWS Good in EE with discussion on 100 years of aeroplanes
 15435 2015 LIBYA Voice of Africa Tripoli Clock chimes and fanfare Id in AA Id in EE at 2030 then News in EE. Into FF at 2037 21/12 LMM
 15437 2245 JORDAN R Jordan? OM in AA with talk then Mx Fair with fading 11/12 KB
 15565 1630 GREAT BRITAIN BBCWS RAMPISHAM Tx Good in EE with the release of Cliff Richard's new Christmas song 6/12 NMK
 15585 1400 SPAIN REE Strong in SS with Time pips, Id then YL speaking 10/12 CC
 15590 0110 JAPAN NHK/ R Japan Good in EE with Nx and weather HJS
 15645 1215 NORWAY Voice of Tibet Strong in Tibetan using R Norway facilities E-mail voti@online.no IC
 15650 1515 ISRAEL Kol Israel gd in EE w/ discussion on child abuse inside the family AMQ
 15745 1100 USA WEWN Poor in EE was also transmitting on 7435 and advising listeners to retune to 15745 1/12 NMK
 15820 0407 ARGENTINA? R Continental ? Two OM's speaking in what sounded like SS but missed Id Fair but noisy signal 2/12 CC
 17510 0153 USA WHRI Fair in EE with fading with freq list for Asia 11/12 KB
 17570 0710 RUSSIA VORWS Good in EE with Joe Adamov's Letterbox pgm # HJS
 17595 1215 EGYPT R Cairo Good signal with usual poor audio Id in EE then folk Mx, News and Listeners Club mail pgm 19/12 LMM
 17650 1725 USA WHRA Maine vgd in EE w/ rel pgm abt doubt Separate WHRA ID hrd AMQ
 17650 2230 USA WHRI 2230 Very poor with usual type pgm 4/12 NMK
 17660 1920 ECUADOR HCJB Pr/fr in EE OM & YL w/ letter frm listener in CHCH NZ V. noisy & difficult to copy 12/12 CC (Anyone we know? Could be a potential new member ? - Ed)
 17675 0200 NEW ZEALAND RNZI Good in EE with Id and News 11/12 KB
 1120 With extended transmission to East Timor to 1130 S/off MSF
 17735 2320 ? VOA Fair in EE with Communications World and News at 0000 12/12 NMK
 17750 0204 AUSTRALIA R Australia gd in EE w/ Tasmania/NSW cricket commentary 11/12 KB
 17775 0030 USA KVOH fr SS male w/ hellfire & brimstone mess. Some fading 14/12 NMK
 17770 1510 SOUTH AFRICA Channel Africa Poor in EE with news AMQ

17780 1320 SOUTH AFRICA Channel Africa Good in EE Sat & Sun only // 21530 19/12 BML
 17780 1359 ITALY RAI Int Fair in EE with Music and Id Some QRM 27/12 CC
 17790 0055 SINGAPORE BBCWS Fair in EE with 'World Today' pgm then Nx at 0100 but suffers sideband QRM from R Australia on 17795 kHz 14/12 NMK
 17820 0000 ? VOA Fair with News and Sports in EE 4/12 NMK
 17820 2120 CANADA RCI Good in EE but with QRM with the story of Nutcracker Suite a classical ballet on the 'Arts In Canada' pgm .By 2130 VOA News Now pgm via Philip-pines dominant but underneath 'Mapleleaf Mailbag' pgm underway 19/12 #AMQ
 17825 0330 JAPAN NHK/R Japan V/good in English to Central America HJS
 2114 Fair in EE with Africa Sce and 'Hello from Tokyo' 6/12 NMK
 17840 1726 ? BBCWS Weak but clear in EE with 'Newsdesk' pgm then sports
 17850 1632 FRANCE RFI Good in EE with News headlines
 17865 1600 CANADA ORF / R Austria Int, via Sackville relay Fair in EE with report on Y2K preparations in Austria At 1630 Id in GG then SS pgm # AMQ
 17870 1755 SOUTH AFRICA Channel Africa Good in EE with time pips and Nx 9/12 EMM
 17880 2345 GUAM KSDA AWR pgm in Mandarin with EE id at 2359 Fair 6/12 NMK
 2356 Moderate in Mandarin with hymns and talk Id 2358 in EE 27/12 KVB
 17895 1052 INDIA AIR Good in EE with hijack comment and Nx Id 1054 28/12 KVB
 18910 1915 USA WSHB vgd in EE w/ sombre religious mx & bible lesson at 1922 13/12 NMK
 18950 1210 R Norway Oslo with Norwegian pgm 9/12 JM
 1734 with normal type spoken pgm Good signal in Danish 1/12 NMK
 19050 1730 ? VOA Poor in EE with Talk to America pgm 2/12 NMK
 20276 0740 ARGENTINA R Villa Broadcast station relayed on LSB in SS V/good signal heard once only // 15820 LSB 20/12 BML
 21455 0057 ECUADOR HCJB Fair using USB with EE pgm OM with Christmas message and carol ID at 0100 6/12 CC
 21460 1030 PAKISTAN R Pakistan Fair with Id and Nx in EE to close at 1108 17/12 NMK
 21470 1100 IRAN VOIRIB Excellent in EE with Id at 1108 Main pgm on Ramadan 14/12 NMK
 21470 1422 GT BRITAIN BBCWS London World Service in EE 9/12 JM (Via Cyprus according to my BBC sked — Ed)
 21480 0900 PORTUGAL RDP On in PP to East Timor with another new frequency IC
 21485 1730 ? VOA Signs on with strong hetrodyne covers until 1930 but can be heard on USB At 1800 pgm in FF until 2030 when changes to Farsi Improves after 1930 but difficult 17/12 NMK
 21490 1015 NORWAY R Norway Very good signal Id at 1030 1/12 NMK
 21495 1130 SAUDI ARABIA BSKSA V/Good in Arabic Id and pgm on Ramadan 14/12 NMK
 21506v 1345 SAUDI ARABIA BSKSA Riyadh With Id in Arabic 9/12 JM
 21510 1135 UKRAINE R Ukraine V/good with very pleasant choral Mx 13/12 NMK
 1236 V/good in EE // 15520 & 9870 19/12 BML
 21520 1150 ITALY RAI V/good in Italian with economics feature 15/12 NMK
 21530 0800 SOUTH AFRICA Amateur Radio Mirror International in EE with some CC QRM at first but quite usable through to close 0901 Sunday only 27/12 BML
 21540 1200 SPAIN REE V/Good in Spanish Signing on with Id at 1201 16/12 NMK
 21550 0012 CHILE Voz Christiana Good in SS with OM speaking then mx ID at 0019 7/12 CC
 21560 1200 HUNGARY R Budapest Excellent in Hungarian with Id at 1203 14/12 NMK
 21590 1855 HOLLAND? R Nederland Fair in Dutch with Id at 1900 and signs off 1925 then

reopens 2027 Id 2030 again in Dutch This freq not listed in their program guide for B99 18/12 NMK (R Nederland monitors can you advise transmitter location ? — Ed)

- 21610 0745 SPAIN REE Excellent in Spanish #HJS
21630 1832 ? RTE Ireland gd sig w/ ID & nx that hospital workers to get 45 pounds per hour over the Millennium period 540 Pounds for a 12 hour shift over the top of wages KB
21660 0357 THAILAND BBC relay Good in EE YL with pgm details l/sig and Id followed by Time pips at 0400 2/12 CC
21660 1335 SPAIN REE Madrid with Id in SS // 21570 21540 9/12 JM
21665 1305 SRI LANKA VOA Relay with pgm in EE 9/12 JM
21670 0750 FINLAND YLE/R Finland V/good signal in EE with report on Finnish involvement with European union . Sent email report to them They reply they will accept but send reports to raimoe.makela@yle.fi #PRP
0753 Fair with echo in EE and Nx 14/12 EMM
21675 0949 AUSTRIA ORTF Good in GG with song by Jan Kiapura 9/12 EMM
21715 0419 TURKEY VOT YL with talk in EE about Istanbul Id at 0437 Fair signal 11/12 KB
1215 With pgm in Turkish 9/12 JM
21725 0455 AUSTRALIA RA vgd in EE tlking abt Sydney-Hobart yacht race & cricket ABD
21735 0350 UAE R Abu Dhabi Strong in AA with indigenous singing // 21630 same pgm as 21700 via R Dubai (It is the same country and Ramedan was on at the time —Ed)
21740 2115 AUSTRALIA R Australia Fair with Christmas carol 'Oh what fun to ride in a rusty Holden car' 11/12 KB
21745 1227 CZECH REPUBLIC R Prague With Czech pgm then into EE at 1230 9/12 JM
1403 Fair in EE YL with News and Id 10/12 CC
21770 1248 SWITZERLAND SRI With French pgm from Berne 9/12 JM
21790 0700 RUSSIA VORWS V/good in EE with Pacific service 1/12 NMK
21800 2100 PORTUGAL? RDP? Possible sprts comment. Pr signal Fades out 2230 1/12 NMK
21840 0935 PORTUGAL RDP V/good in PP with pgm frequencies 20/12 EMM
25595 0312 UNKNOWN Unidentified station Poor / fair on peaks past 0730 with pgm of mainly concert Mx Heard between 11 and 28/12 KVB
25740 0815 GERMANY? D/Welle Exclnt in GG w/ some EE used closing this pgm 6/12 NMK
0747 V/good in GG with pgm about various religions. Id at 1000 8/12 KVB
25820 0951 FRANCE RFI Good in FF with rap Mx // 21680 moderate l/sig 0957 8/12 KVB
25930 0148 COSTA RICA RFPI Poor /Fair in EE with Interview and advert for RFPI membership Id 0200 15/12 KVB
1855 Very marginal in EE which mars reception. Fading & local QRM doesn't help 16/12 NMK
2320 Fair in EE at good strength but distorted so best on USB IC

Thanks very much to all this month's contributors. A # mark indicates a report has been sent to the station. I have noted that some contributors have been suffering from the new Millennium celebrations with either time or freq omitted from their lists. Those on e mail have been contacted but I have to make some assumptions to others.

A very interesting question e-mailed from Jon Standingbear of Beaumont USA. He has a recent letter from Radio Taipei International Taiwan denying that it is their transmitter which is used by R Australia and RDP to relay their pgms to East Timor on 11550 kHz. Any clues? or comments? You are welcome to contact me either via PO Box 3011 Auckland or direct at 36A Brentwood Street Trentham Upper Hutt or via e-mail.

Shortwave Exchange

AMQ Andy McQueen Trentham Sony 6800 ABD Arthur De Maine Paremata Wellington Drake R8 BML Bill McLeod Christchurch NRD 54560m wire & 12 m vertical EMM Evan Murray Birkdale Auckland CC Cliff Couch Paraparaumu Sangean ATS803A with 60m horizontal loop HJS Jack Searle Haumoana Hawkes Bay lcom R71 100m longwire + 19m & 60m dipoles NMK Nev McKenty Napier JRC NRD 545 & lcom R70 and sloper aerial IC Ian Catermole Blenheim JRC NRD 545 with T2FD and Alpha Delta antennas JM John Mainland Kaori Wellington KB Keith Brookshaw Totara Flat Westland Drake SPR4 & 30m long wire KVB Kelvin Brayshaw Levin FRG7 Sony ICF2001 5 MHz dipole and horizontal loops LMM Leigh Morris Morphett Vale South Australia Drake R8A MSF Matt Francis Canberra Australia TTS Tristram Speedy Manurewa Auckland Yaesu FRG 7700 with 55m N/S random wire

utilities@radiodx.com with Evan Murray, Auckland

To all our members I wish a very good new year with success and happiness. There don't seem to have been many Y2K problems so far. I had one small problem on Tuesday 4 January 2000 when my computer showed Wednesday 5 January 1980, but a simple click cleared the problem..

Welcome this month to Keith Brookshaw of Totara Flat, Westland. Keith operates a Drake SPR 4 and we look forward to some good loggings.

RAF Kinloss Rescue Co-ordination Centre is active on 5680 day and night, and has also been heard on 4718 khz. Night frequency only is 3023 khz - that is UTC. Kinloss is the Northern Search and Rescue base in the UK, is responsible for North Sea, and part of the Atlantic Ocean and has over 30 Nimrod aircraft for reconnaissance work.

East Timor. RAAF and RNZAF Air Operations Communications System consists of Centres at Sydney, Townsville, Darwin, Perth, Auckland and Woodbourne and can be heard with radio checks on 8974, 11235 and 13206 khz from 2100 to 0900 UTC and on 3032, 5687 and 8974 from 0900 to 2100 UTC. Hopefully members will report operational messages on some of these frequencies.

The address for contributions is 14 Kia Ora Road, Birkdale, Auckland, unless reporting for other columns as well, in which case mail to Box 3011, Auckland, for separation to respective sub Editors. Or, of course, e-mail to utilities@radiodx.com.

- 5643 0855 Nadi/Hawaiian 465 Wind 188/35 Request PP and WX Nadi EM
5643 0856 NZ 2/Auckland Reading you 2 Primary 5643 Secondary 8867 EM
5643 0857 Auckland/Argentina 1180 Will maintain block 240/270 EM
5655 1818 Singapore 882/Manila EM
5655 1819 Singapore 986/Manila EM
6500 0945 USCG Guam gale warning 18 ft seas in Sea of China KB
6502 0960 Australian coastal station WX Adelaide/S Australia Strong winds calling ship Super Cloud KB
6532 0904 Cathay 883/Tokyo Contact Naha FIR Prim 11384 Sec 8903 NM
6532 0904 Japanair 946/Tokyo Make Prim 3455 Sec 8903 NM
6556 1801 Calcutta/Speedbird 10 FL 280 SC BRAC NM
6556 1809 Calcutta/Speedbird 12 NM

6556 1811 Ujung/Cathay 107 No reply NM
6556 1817 Perth/Mandarin 801 No reply NM
6556 1820 Tontouta/KLM 843 FL 370 SC BQJ NM
6556 1822 Cathay 107/Perth No reply NM
6556 1832 Perth/Vietnam 781 Contact Brisbane Control NM
8176 0718 New York/Unid 215 Weak and noisy NM
6628 0913 Santa Maria/Air Afrique 510 FL 370 EM
6628 0712 Springbok 201/Santa Maria OK 20 miles North of track EM
8176 1955 VIM Melb. Marine WX Bass Strait S/Central coast. Listen for act. sked 2148 NM
8825 0950 New York/Continental 65 Posn SC Check NM
8846 1033 Honiara/Solair 521 Continuous Calls NM
8846 1035 Nauru/Air Nauru 412 Ponape to Nauru Estimate Nauru 1209 Pax on board 85 Request Nauru WX NM
8855 0929 Manaus/Lima Mike ? EM
8861 1724 Canarias/S Korean 002 FL 170 We dont have a flight plan for you NM
8861 1727 Nouadhibou/Canarias No reply NM
8861 1738 Dakar/Unid FL 170 NM
8861 1730 Khabarovsk Volmet Very weak NM
8867 0120 Auckland/Malaysia 136 SC QRFG NM
8867 0129 Brisbane/Qantas 869 Rockhampton to Brisbane Internal flight Wrong freq! NM
8867 0704 Airvan 10/Brisbane US Navy still active was to conclude 0700 but now to continue indefinitely. Message also to Qantas 56 NM
8867 2355 SAM 943/Auckland Constant Selcals but no reply NM
8867 0035 Auckland/? 4530 Posn 090 Opedo at 0930 NM
8867 0748 San Francisco/United 842 at 5o South SC ASDL at 140o West make primary 5574 Secondary 3431 NM
8867 0246 Auckland/PGT 002 Posn Contact Brisbane at Sarap NM
8867 9248 Auckland/Hercules 03 on ground radio check No reply NM
8867 2213 Brisbane/PGT 001 Posn Contact Auckland NM
8867 0913 Auckland/Argentine 1181 We have lost contact with Santa Maria NM
867 0914 Argentine 1181/Auckland transmission unreadable Try other system Your S4 transmission distorted You were 120 West at 0941 NM
8867 0580 Skier 91 contact McMurdo 9032 for WX NM
8867 0103 Skier 91/Auckland No reply NM
8867 0111 Auckland/Skier 91 Update 55 South 178 East at 0128 NM
8867 0112 Skier 91/Auckland McMurdo WX at 0100 Surface good Horizon good Visibility 10 KM or greater Temp minus 30 NM
8867 2356 Auckland/Tahiti 8021 NM
8867 0036 Auckland/Airwork Departed Chathams 0025 Opoto 0201 NM
8867 0218 Skier 96/Auckland Go to 17904 NM
8879 1413 Mumbai/Luffhansa Sharjah to Bombay JC
8891 0900 Rejkjavik/ ? 812 69o East FL 330 Code A3120 NM
8891 0902 Montreal/Air France 6763 020o West FL 330 Minus 16o 310/65 NM
8891 0903 Rejkjavik/Aeroflot ? Posn NM
8891 0619 Bodo/Finair SC BPSQ NM
8891 0620 Unid/Bodo What is your next posn Problem with your radio NM

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This is the printed version of the *2000 Super Frequency List on CD-ROM*. As this book is compiled from observations around the world it is the most comprehensive listing of where the stations actually are, rather than where they claim to be. It costs more, but it is worth more. **NZ\$79.95** The **2000 edition** is due in NZ late January.

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The comprehensive guide to broadcasts to this part of the world that doesn't cost the earth. The guide is compiled by experienced shortwave listener Robert Padula.

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11199 0820 Air Force Darwin/Army East Timor NM
 11217 0939 RAF Gibraltar Flight Watch WX NATO bases Napoli Pisa Roma EM
 11253 1757 Architect WX Brindisi Waddington EM
 11256 0439 Unid/Ethiopian 083 departed Bujumbura (Burundi) Estimate Entebbe (Uganda)
 0517 Station may be Holloway LDOC for Ethiopian JC
 11256 1756 Holloway/Ethiopian 7830 on ground Roma/Fiumacino 1741/54 JC
 11256 1957 Holloway/Ethiopian 650 on ground Baku (on Caspian Sea) 1945 JC
 11285 1833 Aeroflot 544/Chennai Confirm FL 310 Ibutu next EM
 11285 1700 Colombo/Qantas 9 Request 40 miles left of track due WX HJLP NM
 11285 1709 Chennai/Air India 441 Singapore to Bangalore NM
 11285 1710 Chennai/CKS 372 (Connie Kalitta Services USA) Posn FL 310 JLBK NM
 11285 1713 Chennai/Malaysia 6120 KL to Dubai CFKM Request FL 320 NM
 11285 1805 Chennai/Amadeus 881 (Amadeus Travel Spain) Posn NM
 11285 1817 Chennai/Emirates Unid Request FL 350 NM
 11285 1821 Chennai/9TJ (Possible Zaire) SC ASBM Report Akida NM
 11300 1717 Cairo/Unid Call Benghazi control NM
 11300 1718 Mogadishu/Cairo Copied all OK NM
 11300 1725 Hargeisa/Atlas 422 (Atlas Air USA) FL 290 SC CJKR NM
 11300 0614 Khartoum/Cairo- 911 is from Addis Ababa NM
 11300 1735 HB IVV?Nairobi Permission number CAA 7.AT.AG 1/2348 NM
 11300 1737 Nairobi/Seychelles Copied all OK NM
 11300 0613 Cairo/Tripoli No reply NM
 11300 0627 Tripoli/Cairo 976 from Khartoum FL 290 NM
 11300 1753 Tripoli/Alitalia 2522 FL 330 NM
 11300 1810 Tripoli/ESL 9736 (East Line Airlines Russia) Estimate ? at 1935 NM
 11300 1820 Asmara/Alitalia 884 Merry Christmas to Stuttgart In contact with Khartoum
 Request WX Stuttgart NM
 11300 1825 Addis Ababa/Alitalia 854 and Lufthansa 594 NM
 11300 0659 Khartoum/Sudan 103 EM
 11300 1900 Khartoum/Tango 831 Destination Khartoum and estimate 2047 NM
 11300 1901 Emery 418/Cairo Standby NM
 11300 1911 Tripoli/Condor 314 No replies from 3 calls, help from Khartoum for contact NM
 11300 1958 Tripoli/Libair 226 NM
 11300 1859 Khartoum/Yemeni 8339 Estimate India 1940 NM
 11309 1806 Nasa 37/New York Confirm your estimate for ? NM
 11309 1809 Santa Maria/New York You are unread Try 13354 NM
 11327 0853 Auckland ACARS squitters EM
 11354 0855 Anchorage ACARS squitters EM
 13167 0840 Channel 1231 Storm in Nambour (Queensland) EM
 13300 0731 Moresby/Cathay 108 No reply EM
 13300 0756 San Francisco/Korean Air 205 26o North 170o East FL 330 EM
 13300 0805 San Francisco/Eva 11 20o North 160o East Fuel 69.3 FL 330 EM
 13354 1843 Unid 6703/New York Posn SC DKAS NM
 13354 1712 New York/Iberia 640 at 34o North SC EGJL NM
 13354 1726 Speedbird 4521/New York Move to 13300 for Sigmet Barbados NM
 13354 1728 Condor 248 Speedbird 2253/New York Move to 13300 NM

13354 1713 Corsair 164 (Corse Air Intl France)/New York Go ahead 64o N NM
 17386 0110 DYI Iloilo Philippines - 2 way conversation NM
 17904 0220 Auckland/Skier 96 Did you copy our posn 1 hour ago at 50 deg South 166D
 East Estimate 45D South 171D East 0320 NM
 18037 0537 Air Mike 957/Guam No flight plan for Guam Please forward KB
 18828 2336 Two way Russians Reference to Brisbane Ships Simplex NM
 21985 0030 San Francisco/Pacific 392 Posn Maintain FL 370 NM

Contributors: JC John Charlton Greymouth Kenwood R5000 30 m wire NM Neville
 McKenty Napier NRD545 60 ft Sloper, KB Keith Brookshaw Drake SPR4 40 m wire, EM Evan
 Murray Auckland Kenwood R5000 30 m wire.

Chief Editor's note: *The Utilities column is starting to become bloated by average loggings. Please limit the logs you send in to events of note ("left engine has fallen off wing"), and true DX /rare catches. Thanks in anticipation, Andy.*

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

Hi all. I trust everyone enjoyed their millennium celebrations whatever they may have entailed. One thing I haven't enjoyed has been the weather. 3 days into the New Year and three days of rain with today's (Jan 3rd) temperature plummeting to 10!

Conditions for MW reception have not been very good either, thankfully Chris Martin has produced a trail. Keep an ear open for East Coast North Americans next month February is one of the best months to hear them and they aren't always affected by the solar-cycle or the motor-cycle. Seriously folks, things have GOT to improve!

And why has reception been so crook? Almost every day during December there has been a coronal mass ejection, i.e. a stream of electrons bombarding the ionosphere. As a result, there have been a lot of auroras, best viewed after the Sun has dipped below the horizon around 1 a.m. Auroras have been visible since July in ever-increasing numbers, and the predicted peak solar-cycle #23 is in early 2000 so don't expect things to clear up straight away!

Bill Woller, Opunake, "I have not got around to listening much over the Xmas/New Year period but when I did get a chance conditions were atrocious. Nothing gone out but have one back, WRNC Macon GA.1670. I had a visit from **Peter Chambers** the other day. He and his Dad **Robin** had been up Mt. Egmont to the Stratford Plateau for a listen around. Peter tells me that the X Band was really alive, the same evening here was total loss. Hopefully you'll get something in from them. Things should get back to normal now and we will be able to concentrate on some listening." Hey, things can only get better, I hope!

Chris Martin, Ormeau, Qld. "Conditions here have been fluctuating widely from full on to dead flat. I note the sun has been active causing propagation dropouts. In mid November I heard a station at 0745z on 1090 kHz giving sports results during a long fade in KRPM (KMPS) country music and wonder if it was possibly WBAL. WTAM & WABC were also audible on this evening. In Oct/Nov my wife and I visited five countries in South America and had a wonderful trip. In Buenos Aires we caught up with those well known DX'ers Gabriel Ivan Barerra and Arnaldo Slaen. Had a great get together in a café just off Calle Florida. Visited RAE/LRA studios in Calle Maipú and Maria the English service announcer gave us a tour. The complex is a spitting layout of the BBC studios as it was designed by BBC engineers. My wife and I were also fortunate to do a tour thru Hospital Voz Andes and HCJB in Quito. I had to

pinch myself to see I was really standing in the HCJB control room after being one of their listeners for over 33 years. Quito turned out to be our favourite South American city and by far the worst was Guayaquil. Reports away to Reef Rhema, Whitsunday 1620 KRPM 1090 and Radio Fiji 1152. QSLs are KVNK 1480, VOA Thailand 1575, VOA Poro Point 1143 and my second Brazilian with a prepared card from ZYJ687 1390. Technical changes have been made in my shack so watch out! I wish you all a very happy festive season. Keep safe and well away from the millennium anarchy." Nice Brazilian Chris, won't be your last either.

Keith Brookshaw, Totara Flat (Westland) "On holiday so no net access. Have made up a 12 volt lead for the SPR4. Got a car battery for Christmas present. Will be trying MW DX over the new year. At home a lot of electrical noise surrounded by electric fences. Noise at night but not so at 4.30am - interesting?? Last night 0930 had a whisper of a Yank on 1420 lost him with 2.4 on. Will try loop. SPR4 audio is so different from 6800W. Sony produced really clear audio when using filter. I will get a handle on the Drake ?? (the only thing missing from it! Ha ha. 73s, Keith" The West Coast is one of my favourite parts of NZ Keith, even with all the water!

Paul Ormandy, Oamaru. "Well, a few nights at Waianak with just the Sony ICF-SW55 didn't offer much time for DXing and when it did, MW was crook! No logs and the postie has been on strike too, though I must say a big "Thank You" to Chris Martin for visiting Radio Nacional in La Paz and getting them to send me a PPC for 1390kHz, my first Bolivian QSL and country #139. Will have to break the DX-drought very soon with a night of intense listening soon."

Merv Branks Trophy

Paul Ormandy 13, Lindsay Robinson 4

Best of the Month

Paul Ormandy with Radio Nacional, La Paz, Bolivia 1390kHz 10kW (thanks Chris!)

Trail (or should that be 'Trial') Time!

All Chris Martin except KB - Keith Brookshaw
670 0900 USA KBOI Boise ID gave call then into ABC news.
1030 0850 USA KTWO Kasper WY strong on country music w/WBZ under on talk.
1035 1120 SOLOMON IS Honiara strong over 2ZB w/ m/a in EE and local time check.
1090 0745 USA KRPM Seattle WA faded down to have a station giving sports results. KRPM announces AM 1090 KMPS on the hour and runs the history/all time greats of country music all night long. Sig 25 dB O/9 !
1130 0841 CANADA CKWX Vancouver BC strng w/"Traffic & weather together for Vancouver".
1152 0813 FIJI Radio Fiji strong w/ Fijian music program // 639.
1160 1212 USA KSL Salt Lake City UT strong w/ 'Today in History'.
1170 1900 KOREA HLSR Kimje strong o/2CH w/tc then into KK music f/vocal.
1180 0750 USA R. Marti Marathon Key playing back to back Bill Haley classics //6030.
1377 1910 FRANCE, Lille R. Bleue w/m/a in FF dominant over 3MP.
1422 1630 IRAN?? AA and music. Faded out by 1658. KB (Could have been 3XY with Greek programming???)
1620 1210 AUSTRALIA Reef Rhema, Whitsunday Qld with Christian music prog and appeal for funds to become a shareholder of Reef Rhema. Slightly over the jumble.

BROADCAST NEWS FROM AROUND THE WORLD

AUSTRALIA Re the station that was to operate on 1611 as 2KZ, objections have been raised by FM broadcasters here in Sydney. So on top of the antenna problems, the callsign has now been changed to 2GW, for Greater West. Studios will be at Penrith Panthers League Club. Middle of February is the target for start up. QSL route for 2GW direct to me at 4/33 Kerrie Crescent, Peahurst, NSW 2210, Australia. (John Wright via Paul Ormandy)

5RN Renmark, South Australia on 1062, Email QSL back in 90 days after several follow-ups. Message signed by Neil Wiese-5AN. Address: 5AN@your.ABC.net.au My Australian QSL #216. (Pat Martin Oregon USA via IRCA DX Monitor 12/99)

2NTC 1701 is on air, a new station with 400 watts. Send DX reports (with return postage for a response) and your phone number to 2NTC c/- 5 Phoenix Street, Castle Hill, NSW 2154, Australia. Sid, the owner, will ring you and have an on-air chat. Another Sydney-area station 2GW (for Greater West) is due on air early February on 1611 with 400 watts. The studio will be at the Penrith Panthers League Club, transmitter/antenna at St Marys. The proposed call of 2KZ has been dropped due objections being raised by FM broadcasters in Sydney. QSL route for 2GW direct to me at 4/33 Kerrie Crescent, Peahurst, NSW 2210, Australia. Return postage is required please. (John Wright via Paul Ormandy)

HAWAII A new TIS type station is testing at this very moment (1225 UTC 12 December) on 1610 from an unknown location in Hawaii. It is relaying Weather Station KBA99 with the flood warnings due to the bad weather we have been having, heavy rains etc. Every 30 seconds a make voice interrupts the broadcast with "Testing, one, two, three, four, five"! First time heard here. Signal is good but with fades so I doubt it is local or very close to me. Possibly it is a special transmission because of the weather conditions, or it might be a new service. If it is new, it would be Hawaii's second TIS type as there is one on 530 kHz at Hawaii Volcano National Park here on the Big Island which I hear regularly. (Chuck Boehnke via IRCA's DX Monitor 12/99)

KAHU Hilo on 1060 has been granted a power increase to 5kw day & night non-directional. (IRCA's DX Monitor 12/99)

PHILIPPINES DYBB 1503 verified with letter and card in 64 days. Signed by Ma Carlota E Degracia; RGMA Network Inc, 2nd Floor, Oscar R Arcenas Bldg, Roxas Ave, Roxas City, Philippines. (Patrick Martin OR via IRCA DX Monitor 12/99)

SOLOMON ISLANDS Gizo 945 heard fair in 940-950 splash with man in EE/Native talk, childrens group singing, mentions of "Solomon Islands Broadcasting from Gizo. Haven't heard this one in years. Noted at 1020 UTC 13/12. (Pat Martin Oregon USA via IRCA DX Monitor 12/99)

LATIN AMERICA Here is the URL for a Latin religious broadcasting organisation ALER... there are quite a number of e-mail addresses for various stations under the Affiliates (Nuestras Afiliadas) listing by country. <http://www.aler.org.ec/Afiliadas.html> and there as another station list with e-mails at the CNR site: <http://www.cnr.org.pe/SOCIOS.htm> (Paul Ormandy)

TURKS & CAICOS ISLANDS A brief history of recent Turks & Caicos broadcasting: The Atlantic Beacon was the original MW station on South Caicos (my home island). This station changed hands three times and is currently owned by a religious organisation based in

Patterson, New Jersey, U.S.A. The solid state Nautel Transmitter was upgraded to 100KW fed into a 425 feet tower beaming SSW towards South and Central America. The station is housed in the old U.S. Coast Guard Loran Station transmitter building. The U.S. Coast Guard left in 1980. The station is fully automated. All programs are produced in Patterson and satellite fed to the transmitter on South Caicos. During the third sale of this station, the name was changed to Radio Vision Cristiana (now on 530kHz. Ed). This station is manned by a sole employee who maintains the transmitter, answers the phone and replies to reception reports. The Caribbean Christian Radio transmitter is owned by West Indies Broadcasting Ltd. a locally registered Turks and Caicos company with shares held by an American and a local islander. The old 20KW Continental transmitter has been out of service for several months. The Government leases their 5KW FM transmitter to relay Radio Turks and Caicos, the local national station. This used to operate on 1460 MW but ceased about five years ago due to severe roof damage to the studio/transmitter building. They do not have any plans of returning to MW. There are approximately 6 low power FM stations in the islands - 3 religious stations relaying the Moody Network and VCY America from the USA and 3 broadcasting a combination of local music programmes and US pop music programmes received via satellite. (James Mills via Paul Ormandy)

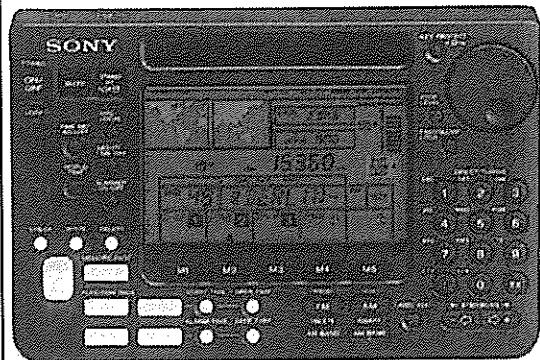
NORTH AMERICAN NEWS from International Radio Club of America

- 600 CIQC Montreal PQ has construction permit for move to 940, increase to 50kw non-directional.
- 620 WDAE Tampa FL is due to relocate here from 1250 on 1 January 2000, replacing WSAA which goes to 570. The current 570 occupant WHNZ will take its talk format to 1250. (Blake Lawrence CA via PM)
- 630 CKOV Kelowna BC format was talk and standards, now Adult Contemporary.
- 640 WWLS Moore OK has CP to increase to 5kw D days, DA-2 from DA-N
- 650 KENI Anchorage AK. Form verification letter back in 305 days after 2 follow-up reports. Signed by Van Craft, Chief Engineer. Address: 800 E. Dimond Bl #3-370, Anchorage AK 99515. (Pat Martin OR)
- 670 KBOI Boise ID is now 50kw nights with changed antenna pattern to mainly north with 6 towers, as KIRN Simi Valley CA. will be boosting power in the near future. KIRN made a deal with KBOI, apparently. (Pat Martin OR)
- 680 WCNN North Atlanta GA news/talk format will be African/American focused from April 2000.
- 680 KKGR East Helena MT operates with 5kw 6am — 6pm MST during winter. Format changed "Good Time Oldies".(Pete Taylor WA)
- 690 CKVL Verdun PQ format is all-news in French since 14/12. (See 850)
- 740 CBL Toronto ON 50/50kw ND — 7 applications recd for new licence.
- 850 CKVL Verdun PQ has construction permit for move to 690, increase night power to 50kw, antenna to non-directional. On new frequency, call will be CINF "Info 690".
- 850 WJAC Johnstown PA call changing to WODZ "Oldies"
- 850 WYDE Birmingham AL w/ conservative talk, ex WMKI, Radio Disney.
- 860 KTRB Modesto CA has filed application to move day site 56 miles NNE of existing single site near Modesto, Second proposal has them putting day site in the Sacramento River Delta, near Pittsburgh, CA., 50kw. ND. Night site still would be near Modesto, but with 50 kw., ex-10kw. nights. (Blake Lawrence CA via Pat Martin)

- 900 CJI Victoria BC carries 3 hour "Rona shows" around 10pm PST, otherwise carries "Decades" format (Music from 60's to 80's). Music is produced at their station. (Pete Taylor WA) reportedly denied application to move to FM. (PM)
- 910 KXEB Sherman TX format change from SS religion to brokered ethnic - mainly Hindi/Pakistani programming.
- 920 WOKY Milwaukee WI ran Christmas music format in December, returns to Standards format after the holidays.
- 940 CIQC/CKNN Montreal PQ reportedly becoming CINW "940 News".
- 970 KFTA Rupert ID, slogan "Fantastico 9-70". Address: 120 South 300 W., Rupert ID 83350. Manager is Benjamin Reed. (Pete Taylor WA)
- 980 KJOX Selah WA has CP to change antenna to DA-2 from DA-N.
- 980 KNTR Lake Havasu City AZ with talk format ex KBBC.
- 980 KBBC Lake Havasu City AZ callsign now KNTR "News Talk Radio"
- 1010 KIQI San Francisco CA granted Construction Permit modification to increase to 50kw night power, DA-2.
- 1050 KMAP Frazier Park CA new call ex KTRJ, Christmas music format until new format debuts in January.
- 1090 KMPS Seattle WA ex KRPM, with Classic Country and ID at 1100 UTC as "Classic Country KMPS, Seattle" ID. (Pat Martin OR)
- 1150 KAGO Klamath Falls OR now relays KGO 810, at least part-time. (PM)
- 1190 WGKA Atlanta GA format changes from fine arts to religion in 3/00.
- 1210 KQEQ Fowler CA new regional Mexican format //KXEX, ex urban.
- 1230 WHOD Jackson AL format was sports, talk, now JRN Adult Standards. KOY Phoenix AZ verie letter from Stephen H Blodgett, Chief Engineer, at 840 N Central Ave, Phoenix AZ 85004. (Mike Sanburn CA)
- 1280 KUYL Stockton CA is new callsign replacing KJAX. Oldies format expected. During December format was Christmas music w/ slogan "Straight from the North Pole; KUYL, Stockton, Ho, Ho, Ho, 12-80" (Robert Wein CA)
- 1290 WRNI Providence RI granted increase to 10kw nights, DA-2
- 1350 KXCD Duncan OK, new callsign replacing KKEN
- 1350 CKCI Parksville BC now oldies // CKEG (retains local morning drive).
- 1360 WKAT North Miami Beach FL format now SS talk, standards. Carries satellite feed programming from Colombia overnights.
- 1380 KZJZ St. Louis MO w/jazz silent, returns as KSLG with new format soon. The station, which is owned by Reverend B.T. Rice, had been having some financial difficulties. The station operated with a daytime power of 5,000 watts from a transmitter site at Chouteau Island, IL, across from the northern tip of St. Louis. The night-time signal, which operated with 1,000 watts, originated from a transmitter site near Dupou, IL, across from Mehlville, MO. The site had been used since 1984, and had trouble covering metropolitan St. Louis outside the Interstate 270-Interstate 255 loop. The station came on the air as KWK, that three-letter call was dropped in 1984. No word on who will come forward and buy the station. Whoever does would have to find a way to better cover the St. Louis market at night. (Eric Bueneman MO)
- 1380 KTOM Salinas CA format to be JRN classic country, when its sports format moves to KTX 1460.
- 1390 WNIO Youngstown OH ex WRTK, new format JRN Adult Standards.

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- ◆ New Visual Clock features bar graph selection of major cities for display of local time
- ◆ Rec Out Jack
- ◆ SSB Receivable (USB/LSB 2 Position)
- ◆ Station Name Display for Quick Station Access (max 25 pages)
- ◆ Tone Control

- 1400 WTRR Sanford FL becomes WSDO
- 1400 KBLJ La Junta CA new call letters replacing KBZZ.
- 1430 CHKT Toronto ON seeks move to 93.5FM (competing CP to 740)
- 1430 WOWW Germantown TN format was black gospel, now Xmas music.
- 1460 KTXS Salinas CA to return with sports format "The Dude". Tested with full power 18/12 and expected on by 1/1 or shortly thereafter. A format change to talk is planned for later in 2000. (Jim Hilliker CA)
- 1470 WIJK Evergreen AL was country //WPGG, now WWI rhythmic oldies.
- 1540 WPTR Albany NY new callsign replacing WDCD since 20/12.
- 1590 KZRA Springdale AR format change in January to Spanish-language JRN ranchera (La Buena),
- 1570 CKEG Nanaimo BC format changed from country to oldies.
- 1630 MEXICO XEUT Tijuana BCN finally logged 2/11 at 0600 UTC with light Jazz programme. Identified as "Radio Universidad" (Larry Godwin MT)
- 1640 KPBC Lake Oswego OR heard 1/12 with new calls, ex-KKJY. Still religious, Crawford Broadcasters. Identifies as "12-90 KKSL and 16-40 KPBC Lake Oswego, Portland". (Nancy Johnston MT) New callsign stands for "Percy B. Crawford" QSL letter recived from Lon C Mathis, Operations Manager. Address: 4700 SW Macadam, #102, Portland OR 97201 (Pat Martin)
- 1640 WKSH Pewaukee WI verified with form letter and bumper sticker from General Manager Frank F LeTourneau, W223 N3251 Shadey Lane, Pewaukee WI 53072. (John Johnson MT)

NEW CALIFORNIAN TIS STATIONS. The 'down under' reception of the low power Dallas Fort Worth TIS stations some years ago means there is always the prospect that other min-powered operations may be audible in NZ. The newest opportunities are Menlo Park on 1670 and a 10 watter at Lake Tahoe Ski Resort on 1680. The Menlo Park TIS has been verified with a variety of callsigns including WTNR210 and WFKC502. Addresses for DX reports are: Dominick Peloso, Commander; Menlo Park Police Dept, 701 Laurel St, Menlo Park CA 94025-3483 and Bob Hamilton of the Sales Department of the Northstar Ski Resort at Lake Tahoe via email: bhamilton.ns@boothcreek.com Thanks to IRCA members Patrick Martin and Bon Pietsch for these tips.

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

WELCOME TO THE FOLLOWING NEW MEMBERS **STUART STIDOLPH**, c/o NZ Post Centre, Tamatea, Napier 4001 and **MICHAEL MURRAY**, 4 Thorndon Close, St Ives, Huntingdon, Cambridgeshire PE17 4ST, England. Stuart is interested in MW and SW DXing and uses an Racal RA17L receiver. Thanks to our active Hawkes bay members **NEV MCKENTY** and **PETER CHAMBERS** for introducing Stuart to the League! Each receives a bonus one-month extension to their own membership subscriptions. Michael has been introduced to the League by **HARRY WEATHERLEY** and older members may recall Michael as a former Secretary-General of the European DX Council. Glad to have you with us gentlemen!

DID YOU KNOW? Every month, 3 issues of the 'NZ DX Times' are delivered to the Legal Deposit Office of the National Library of New Zealand, in Wellington. This is a legal requirement under Section 30(a) of the National Library Act 1965, amended 1994, which makes the National Library responsible for collecting all books, serials and other printed material published in New Zealand. Deposited items become part of the National collections for the use of present and future generations. So, why not contribute news of your DX and SWL efforts today, knowing that your exploits are being preserved for posterity!

AWR DX CONTEST Further to last months report in this column, we have more news of Adventist World Radio's 1999 Contest winners. League member **BRIAN WEBB** took third place in the Large QSL collections section, with 14.037 QSLs, behind the overall winner **RON KILLICK** and second place-getter **ADRIAN PETERSON**. Another League member **JACK SEARLE** was 4th in the NZ section.

TIME FOR YOUR DX HOBBY IN THE THIRD MILLENNIUM ? According to a Statistics NZ report published in the 'NZ Herald' New Years Day edition, today's average New Zealander aged 12 years or over, living in private households, allocates just 40 minutes out of each 24 hour period on sports and hobbies. But there's another 138 minutes a day on mass media and other leisure activity. Its not clear where dedicated radio listening as a hobby might feature in these numbers, though perhaps the latter. Presumably that includes TV, reading the newspaper, or using a computer. If the present trends in the quality of TV programming continue, maybe we will see a trend back to radio — television for the mind!

THE FUTURE OF OUR HOBBY IN THE THIRD MILLENNIUM? The prospect of digital shortwave in the next few years has the potential to rejuvenate interest in tuning to overseas broadcasts. Radio Australia technical guru **NIGEL HOLMES**, speaking on the 'Feedback' programme last year, said that "Digital Broadcasting has the potential to turn shortwave broadcasting on its head". Watch the DX Times for some background material supplied by the Far

East Broadcasting Company's NZ Office, plus comments from JONATHAN MARKS of Radio Netherlands during his recent visit to New Zealand.

THANK YOU to members in New Zealand and Australia who have sent along Christmas and New Year greetings to the 'DX Times' editorial team .

ADDRESS CHANGE The Voice of America has had a change of zip code for its main address. Listener mail should now be addressed to VOA at Washington D.C. 20237, USA. (via VOA Communications World 8/1/00)

BROADCASTING IN EAST TIMOR According to an article in the 'Australian' of early November sent in by CHARLES DOUGLAS, UNAMET, the United Nations organisation overseeing the peace in East Timor, tried unsuccessfully to secure broadcast time on Radio Australia transmitters in Shepparton. RA's Director General Jean-Gabriel Manguy said that the mothballed Darwin site (closed by the government in 1997 on the basis that it was too expensive to operate) could be reactivated to take Radio Australia transmissions and so free up Shepparton for UNAMET. RA was forced to use relay transmitters in Taiwan and Singapore to beef up its Indonesian and Asian coverage during the regional crisis. Darwin itself is unable to cover East Timor because it falls within the transmission skip-zone (unless they used a frequency below 6MHz? BC) In the meantime, UNAMET was fortunate to discover sufficient transmission equipment in East Timor (including a brand-new FM transmitter 'still with its stickers on') to be able to establish programming services for peace-keeping troops and the local population. Australian audio programming was to be carried into East Timor via Channel 7's ATV satellite service for local retransmission on FM. At the same time, Australians were being asked to donate working AM/FM radios for use by the East Timorese.

ALASKA CALLING Station KNLS is very proud of their home in America's last frontier. They offer a number of ways for listeners and internet surfers to enjoy Alaska with them. In every hour of every KNLS English transmission, you will hear at least one story from Alaska. Check out 9615kHz at 0800 UTC (11780 from 26 March). At the KNLS web site www.knls.org you can browse more than 40 Alaska photos and experience the last frontier by reading the online journal of Nancy Chambers, wife of KNLS' Chief Engineer.

shortwave in time order *with Yuri Muzyka*

Time Order summaries of the Under & Over 9 MHz 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.

Re: TIME ORDER SURVEY -- Thanks for the prompt letters via email and conventional post, they were quite thought provoking and informative; essentially all saying that this column is appreciated very much. Thanks guys, they were most appreciated! It seems English language broadcasts will serve most reader's needs. Andy Gardner is happy to add a long version of this column on the NZRDXL website if an all languages version becomes necessary.

You can still e-mail me at yuri@win.co.nz or post the conventional way to the League at: NZRDXL, P.O. Box 3011, Auckland (mark your letter "Attn: EE Time Order Broadcasts Column Editor") and they will be forwarded on to me.

See the WINRADIO reviews in the 2000 editions of Passport to World Band Radio and WRTH. I find I get a marked improvement on computer noise/hash reduction when I use Belden 9913 half-inch coax to feed an ISA card WINRADIO model and at least 1 metre separation from the computer when using an external model. Both model types of course work splendid with outdoor antennas. I expect the same for the ICOM PCR-100/1000, the Ten-Tech RX320 and Kachina KC-105CRX computer controlled communications receivers. I have found almost all product reviewers miss the quality coax point out when they review a receiver, but the receivers are extra sensitive enough to see signals beyond the noise levels anyway.

They're a great new technology despite sometimes being a disappointment as well. Take the receiver reviews with a grain of salt, or throw some salt over your shoulder, hi!

I hope you're having a great start to the 21st Century, or are getting ready for 2001! 73 - Yuri ("George") Muzyka, ZLIGYM. Author of WINRADIO for Linux/Unix/*nix Program Suite (see: <http://www.linradio.com/sources.htm>), a free software solution.

I hope you're having a great start to the 21st Century, or are getting ready for 2001! 73 - Yuri ("George") Muzyka, ZLIGYM. 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
0000	17820	VOA	USA	4/12	NMK
0055 - 0100	17790	BBCWS	UK	14/12	NMK
0057 - 0100	21455(USB)	HCJB	ECUADOR	6/12	CC
0110	15590	NHK/R Japan	JAPAN	-	HJS
0148 - 0200	25930	RFPI	COSTA RICA	15/12	KVB
0153	17510	WHRI	USA	11/12	KB
0200	17675	RNZI	NZ	11/12	KB
0204	17750	R Australia	AUSTRALIA	11/12	KB
0302 - 0310	7305	Vatican Radio	VATICAN	5/12	CC
0304	15310	BBCWS	USA	11/12	KB
0314 - 0330	15049	RFPI	COSTA RICA	11/12	KB
0315	9755,9780	RCI	CANADA	5/12	CC
0330	17825	NHK/R Japan	JAPAN	-	HJS
0341 - 0347	9680,15345	R Taipei Int	TAIWAN	2/12	???
0357 - 0400	21660	BBC	UK	2/12	CC
0419 - 0437	21715	VOT	TURKEY	11/12	KB
0427 - 0430	15215	Channel Africa	S. AFRICA	12/12	KB
0450	12020	WWCR	USA	26/12	ABD
0455	21725	R Australia	AUSTRALIA	-	ABD
0455 - 0457	7415	WBCQ	USA	8/12	NMK
0500	9435	Kol Israel	ISRAEL	13/12	TTS
0535	7385	WRMI	USA	29/12	IC
0600	15110	R Kuwait	KUWAIT	-	PRP
0610	15110	R Kuwait	KUWAIT	-	HJS
0640	11775	RRI	ROMANIA	-	IC
0650 - 0700	6290	Pirate Alfa Lima Intl	NETH.	26/12	PWO
0700	6873(SSB)	VOA	USA	23/12	IC
0700	7150	VO t. Mediterranean	MALTA	9/12	KB
0700	21790	VORWS	RUSSIA	1/12	NMK
0705	6975	RFPI	COSTA RICA	13/12	DN
0707 - 0708	5085	WG TG	USA	25/12	KVB
0710	11990	R Slovakia Int	SLOVAKIA	-	ABD
0710	17570	VORWS	RUSSIA	-	HJS
0715	7125(SSB)	IRRS	ITALY	27/12	KB

0717	9785	HCJB	ECUADOR	9/12	KB
0730 - 0800	6890.3(USB)	WGTV	USA	1/1	GRD
0736	9371	WTJC	USA	10/12	CC
0740	13635	SRI	SWITZ.	-	AMQ
0750	12070	TWR	ALBANIA	-	AMQ
0750	21670	YLE/R Finland	FINLAND	-	PRP
0753	21670	YLE/R Finland	FINLAND	14/12	EMM
0755	5835	KAIJ	USA	23/12	IC
0755	9870,12070	TWR	???	-	HJS
0800 - 0818	13820	Croatian Radio	CROATIA	-	HJS
0800 - 0901	21530	Amateur Radio Mirror Int.	S. AFRICA	27/12	BML
0805	9615	KNLS	ALASKA	3/12	CC
0806	11600	R Prague	CZECH REP.	-	PRP
0810	15150	VOA	USA	12/12	NMK
0820	13650	VOA	USA	-	AMQ
0831	5745,7315	WHRI	USA	18/12	CC
0850 - 0930	5975	V of Hope	USA	27/12	PWO
0857 - 0900	7245	BBC WS	UK	25/12	KVB
0940	11710	FEBC	PHILIPPINES	-	IC
0952	3205	?	PNG	7/12	DN
1006	15235	RNZI	NZ	25/11	IC
1030 - 1108	21460	R Pakistan	PAKISTAN	17/12	NMK
1040 - 1058	7465	WEWN	USA	1/12	NMK
1052 - 1054	17895	AIR	INDIA	28/12	KVB
1100	15745	WEWN	USA	1/12	NMK
1100 - 1108	21470	VOIRIB	IRAN	14/12	NMK
1114	12065	R Nederland	NETH.	23/12	ABD
1120 - 1130	17675	RNZI	NZ	-	MSF
1153 - 1155	12080	R Australia	AUSTRALIA	23/12	ABD
1200	9715	R Tashkent	UZBECKISTAN	27/12	LMM
1215	17595	R Cairo	EGYPT	19/12	LMM
1227 - 1230	21745	R Prague	CZECH REP.	9/12	JM
1236,9870,15520,21510		R Ukraine	UKRAINE	19/12	BML
1305	6195	BBC WS	UK	18/12	KAB
1305	21665	VOA	USA	9/12	JM
1320	17780,21530	Channel Africa	S. AFRICA	19/12	BML
1345	11995	FEBC	PHILIPPINES	27/12	CC
1353	7365	KLNS	ALASKA	10/12	CC
1359	17780	RAI	ITALY	27/12	CC
1403	21745	R Prague	CZECH REP.	10/12	CC
1404	11690	R Jordan	JORDAN	27/12	CC
1422	21470	BBCWS	UK	9/12	JM
1455	15140	R Oman	OMAN	9/12	JM
1459	11995	FEBC	PHILIPPINES	10/12	CC
1506 - 1506	15240	R Australia	AUSTRALIA	28/12	ABD
1510	17770	Channel Africa	S. AFRICA	-	AMQ

1515	15650	Kol Israel	ISRAEL	-	AMQ
1559	11990	R Slovakia Int	SLOVAKIA	3/12	CC
1600	15420	BBCWS	UK	-	???
1600 - 1630	17865	ORF/R Austria Int	AUSTRIA	-	AMQ
1604	11570	R Pakistan	PAKISTAN	3/12	CC
1612	11690	R Jordan	JORDAN	3/12	CC
1620	11615	RFI	FRANCE	-	PRP
1620	11690	R Jordan	JORDAN	-	PRP
1630	15380	D/Welle	GERMANY	-	AMQ
1630	15565	BBCWS	UK	6/12	NMK
1632	17850	RFI	FRANCE	-	???
1725	17650	WHRA	USA	-	AMQ
1726	17840	BBCWS	UK	-	???
1729	15240	VOA	USA	-	AMQ
1730	12000,15335	NHK/R Japan	JAPAN	-	IC
1730	19050	VOA	USA	2/12	NMK
1737 - 1800	4820	R Botswana	BOTSWANA	26/12	KB
1742	4769.9	R Nigeria	NIGERIA	27/12	BML
1745	7210.1,9754.9	R Tirana	ALBANIA	25/12	BML
1754	5915,7345	R Slovakia Intl	SLOVAKIA	5/12	CC
1755	17870	Channel Africa	S. AFRICA	9/12	EMM
1800	7185	R Bangladesh	BANGLADESH	14/12	KB
1800	7200	???	SUDAN	13/12	KB
1800	9870.2	R Yemen	YEMEN	-	HJS
1801	11990	R Kuwait	KUWAIT	5/12	CC
1801 - 1815	9165	V of Azerbaijan	AZERBAIJAN	17/12	BLM
1812	13640	RCI	CANADA	18/12	EMM
1825	5930,7315	R Prague	CZECH REP	5/12	CC
1832	21630	RTE	IRELAND	-	KB
1848 - 1900	11510	VORWS	RUSSIA	8/1	AMQ
1855	25930	RFPI	COSTA RICA	16/12	NMK
1858	7345	R Slovakia Intl	SLOVAKIA	20/12	KAB
1900	6195	BBC WS	UK	16/12	NMK
1900	7075	R Pyongyang	NTH KOREA	13/12	KB
1900	11730	R Pilipinas	PHILIPPINES	-	PRP
1910	13640	VOA	USA	-	HJS
1910	7450	FTH	GREECE	12/12	KAB
1910 - 1916	11510	VORWS	RUSSIA	7/12	NMK
1915 - 1922	18910	WSHB	USA	13/12	NMK
1920	17660	HCJB	ECUADOR	12/12	CC
1930	15185.7	R Africa	EQUAT. GUINEA	18/12	LMM
1935	5970	RAI	ITALY	27/12	BML
1935 - 1945	9535	R Thailand	THAILAND	4/12	EMM/PRP
1938	7140,11620	AIR	INDIA	13/12	CC
1940	9500	R Australia	AUSTRALIA	-	PRP
1940 - 2000	11920,17725	VOA	USA	-	PRP

2000 - 2045	9725	D/Welle	GERMANY	12/12	NMK/IC
2000 - 2257	15184.9	R Africa	EQUAT. GUINEA	15/12	BLM
2015	9780.5	Rep of Yemen Radio	YEMEN	27/12	LMM
2030 - 2037	15435	Voice of Africa	LIBYA	21/12	LMM
2045	15160	R Algiers Int	ALGERIA	28/12	BLM
2047 - 2056	9680	REE	SPAIN	1/12	KVB
2050	9600	REE	SPAIN	14/12	NMK
2100	12060	WWCR	USA	11/12	KB
2100	13690	RCI	CANADA	13/12	NMK
2100	13800	R Sweden	SWEDEN	-	IC
2100	15240	VOA	USA	6/12	NMK
2114	17825	NHK/R Japan	JAPAN	6/12	NMK
2115	21740	R Australia	AUSTRALIA	11/12	KB
2115 - 2130	15135	D/Welle	GERMANY	6/12	NMK
2120 - 2130	17820	RCI	CANADA	19/12	AMQ
2128 - 2144	9965	V of Armenia	ARMENIA	28/12	BLM
2130	15185	VOA	USA	7/12	NMK
2145	15135	D/Welle	GERMANY	11/12	KB
2212	15325	RCI	CANADA	11/12	KB
2230	17650	WHRI	USA	4/12	NMK
2301 - 2306	15185	R Africa	EQUAT. GUINEA	17/12	MSF
2320	25930	RFPI	COSTA RICA	-	IC
2320 - 0000	17735	VOA	USA	12/12	NMK

marketsquare@radiodx.com

FOR SALE: ICOM 8500 just 5 months old, current model, AM, SSB, CW, VHF, VLF. Easy to use. \$2,650. Telephone Mike Osborne (09) 486-1706.

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

Welcome to another month where the DX is very slow in making it into NZ.

Your Editor has heard the following Magic FM 100 & 91.5 both of Northland area, Big River FM Ruawai 92.9, Gospel FM 95.1 Rotorua & The Pulse 99.1. From Australia 5ABCRN Smoky Bay 107.7, Hill FM Broken Hill 106.9, 3GLR Bainsdale 106.3 5JJJ Adelaide 105.5 & 5SSA 107.1, Swan Hill FM 107.7, 2GO Gosford 107.7, 2WR 97.9 Parkes, 2JJJ Wagga Wagga 101.1, Star FM Mildura 99.5 & 3JJJ 101.1, 5ABCRN 106.7 ?, 5JJJ 102.1 S/Australia, 5JJJ Spencer Gulf 103.5, 3ABCRR Hopetoun 105.3, Max FM Taree, FM 2OCB Orange 107.5, 5ABCFM Mt Gambier, 2ABCRN, Tamworth 93.9 & Hitz FM Young. From Invercargil The Rock 90.8, R Southland 96.4 & ZMFM 96 on 95.6 also Gore Hokonui 92.4.

STATION NEWS:- The Edge in Palmerston North is using 93MHz & not 98.6 (Magic still

using this frequency). Forestland now on FM using 88.5 & 1413KHz in Tokoroa.

FM / TV Trail.

All heard on the 14 December between 10am & 4pm from Spencer Gulf, Mt Gambier, Aleidale, Mildura, Swan Hill, Albury, Taree, Broken Hill, Gosford, Newcastle, Orange, Forster, Sydney, Wagga Wagga, Warwick, Northfolk Island, Tamworth, Young, Bundaberg.

4/1 From 4 to 7pm ABQ2, STQ1.

5/1 From 11am to 2.15pm STQ1 & ABQ, ABSQ1, ABAV1, Norfolk Island & 7ABCFM 93.9.

6/1 From 10.35am to 11.45am ABDN2 & Coffs Harbour FM including Dorriggo 93.3.

7/1 From 11.20 to 12.20pm ABDN2 From 2pm to 2.20 Invercargill FM including Gore FM on 89.2, 90.0, 90.8, 92.4, 95.6, 96.4, 98.8

8/1 12.15pm ABDN2

9/1 2pm to 4pm SDQ1 & ABQ

HAPPY NEW YEAR 2000. Send news & Log's to PO BOX 7072 TARADALE 4030 OR DX TIMES PO BOX 3011 AUCKLAND

An introduction to DIGITAL AM - SW and MW – and Digital Radio Mondiale (DRM)

For several years 3 different systems of Digital Shortwave & Medium Wave have been under development in the USA and Europe. Because the only sensible & practical way forward is to agree on a world standard (indeed the receiver & transmitter manufacturers are insisting on it), the DRM was proposed as a consortium to bring all the interested parties together. This was formally inaugurated in March 1998 in a conference in Guangzhou hosted by the Academy of Broadcasting Sciences of China, & I was privileged to attend. About 30 representatives of major international broadcasters were present (plus many Chinese broadcast people), as well as Sony, Sangean and representatives of the three major transmitter manufacturers - Continental, Harris & Telefunken. All these organisations were joining the DRM and signed the Memorandum of Understanding on 31 May 1998.

This is a highly significant development, which will greatly impact the mission of all broadcasting organisations using either MW or SW in the next few years.

The advantages are:

1. Much Higher Reliability & Quality In a demonstration tape, background noise & fading are almost eliminated & weaker signals are tolerated.
2. Better Immunity to Adjacent Channel Interference
3. Simulcasting During the transition period, transmitting of both analogue & digital modulation is possible, continuing to serve our present audience.
4. Improved Coverage OR Power Saving Digital requires approximately 10db less power for the same coverage as Analogue transmissions. This could save 90% of a broadcaster's power-bills or proportionately increase coverage, AFTER the transition simulcasting period is over.
5. Low Cost Adaptation Modification of existing modern transmitting equipment is inexpensive, in some cases without any modification. New receivers will be required but will be less expensive than with other digital audio systems.
6. Variety of Services Possible (Multi-Media) Transmission of text, data, pictures & slow-

scan video are possible.

7. Smart Digital Receivers Among other services, these will permit automatic re-tuning of receivers to another frequency when the station changes bands.
8. Will Effectively Extend Working Life of Shortwave Broadcasting Shortwave, now in decline, will likely experience a new lease of life of many years, when DRM becomes operational.

The DRM has the task of managing the selection of the coding/modulation system and the harmonisation of the integrated introduction of Digital-AM via on-air broadcasts and receiver manufacture. Membership of the DRM costs US\$10,000 annually. FEBC has joined with other Christian broadcasters in a joint membership to share the cost.

John Wheatley, Consultant for Broadcasting Trends & New Technology, FEBC - 31st May 1998

branch.news@radiodx.com

North Otago

Hello from North Otago in the winterless south. We had a great meeting for the start of 2000 at Arthur Finch's place, with most members in attendance.

The frequency competition was won by Alistair Sutherland. And the raffle by Arthur Finch. Following on from a discussion about helping members to erect antenna's, Paul Ormandy gave a highly interesting talk on solar propagation after the recent solar flares. All going well with the weather, next meeting will be outdoors. Happy DXing, Raymond.

DXing the USA On Medium-Wave by Paul Ormandy

(Continued from last month) Part Three: Sunset Lift

Now that we've tackled one sunrise enhancement, there is another issue closer to home... that is our sunset, for there is a notable lift in reception conditions, not just from the USA but from anywhere East of here prior to dusk. I have researched back issues of the DX Times for the last 11 years (that being the whole period of the Sunspot cycle) and come up with some interesting statistics... most notably that we can experience reception of signals from the USA at loggable strength as early as 94 minutes prior to sunset in the height of Summer, shrinking to 13 minutes in the shortest month. This variation is given in minutes at the top of the chart... note that this twilight zone is longer in the South of NZ than in the North. The "Earliest" row refers to the earliest reported reception of US stations in each month.

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Variation	94	78	67	45	16	13	20	35	57	65	74	93
Earliest	06:00	05:50	05:22	04:55	04:50	04:40	04:45	04:55	05:00	05:20	05:45	05:55
Gisborne	07:34	07:08	06:29	05:40	05:06	04:53	05:05	05:30	05:57	06:25	06:59	07:28
Auckland	07:43	07:19	06:40	05:55	05:22	05:11	05:23	05:47	06:12	06:37	07:09	07:36
Wellington	07:55	07:26	06:41	05:50	05:12	04:58	05:11	05:40	06:10	06:42	07:19	07:50
Christchurch	08:10	07:39	06:50	05:56	05:15	04:58	05:13	05:44	06:18	06:53	07:34	08:07
Invercargill	08:38	08:02	07:09	06:09	05:24	05:05	05:21	05:56	06:34	07:14	08:00	08:35

Well, that ain't the whole story however it's a start and you can expect more... so in the interim... happy DX!

league.ladders@radiodx.com with Peter Grenfell, Oamaru

Hope everyone has a peaceful Christmas with friends and family and that the coming year will be one with plenty of time to enjoy the wonderful world of radio. Results of the six-monthly competition are :- Medium Wave Paul Ormandy, Intermediate Paul Peacock Short Wave Ian Cattermole, Intermediate Arthur de Maine.

MEDIUM WAVE	QSLs	INC	CNTS	SHORTWAVE	QSLs	INC	CNTS
OPEN (Over 500)				OPEN (Over500)			
Laurie Boyer	3944		137	Ian Cattermole	3677	186	197
Keith Robinson	2896		157	Jack Searle	2291	26	207
Paul Ormandy	1483	31	139	Paul Ormandy	1599	5	234
George Beardsmore	802		61	Laurie Boyer	1694		178
Bryan Clark	673		119	John Campbell	1597		260
Mark Nicholls	643		67	Bryan Clark	1544		237
John Campbell	641		129	Lindsay Robinson	1415	2	169
Paul Aronsen	529			Brian Withers	1297		128
Lindsay Robinson	524		56	Mike Smith	1218		133
SENIOR (301-500)				Ross Gibson	1055		162
Peter Grenfell	443		37	Graeme Dixon	916		117
Stuart Forsyth	413		39	Paul Peacock	827	17	122
Brian Withers	411		51	Paul Aronsen	733		
INTERMEDIATE (151-300)				Peter Grenfell	653		133
Jack Searle	294		35	Ian Wells	582		133
Andy McQueen	295		21	SENIOR (301-500)			
Robert Krijger	228		13	Bernd Henning	372		90
Mike Smith	194		18	Andy McQueen	368		103
Paul Peacock	193	7	16	Bob Boundy	400		91
JUNIOR (5-150)				Chris Elliot	301		78
Ian Wells	108		15	INTERMEDIATE (151-300)			
Adam Claydon	71		4	Stuart Forsyth	283		87
Arthur de Maine	50		10	Arthur de Maine	236	6	90
Chris Elliott	15		3	Ashley Gulbransen	193		75
FM-TELEVISION				Keith Robinson	186		177
Brian Withers	899		9	JUNIOR (5-150)			
Robert Krijger	678		6	George Beardsmore	129		68
Bryan Clark	148		5	Adam Claydon	123		40
Paul Ormandy	110		5	Mark Nicholls	121		55
Paul Peacock	65	4	2	Daniel Bloomfield	13		11
Adam Claydon	49		1	Peter Grenfell, 1 Stour Street, OAMARU.			
Mark Nicholls	42		2	PH/FAX (03) 4345907			
Mike Smith	33		2	These are the December results, held			
Andy McQueen	29		2	over due to lack of space. Please send your			
				February ladder entries today!			

NEW ZEALAND RADIO DX LEAGUE (Inc.)

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Patron - Jack Fox

president@radiodx.com - Barry Williams
National Secretary - Evan Murray (Tel. 09 483 9543)

vice.president@radiodx.com - Bryan Clark
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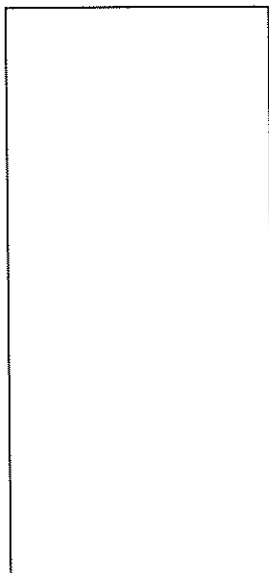
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