



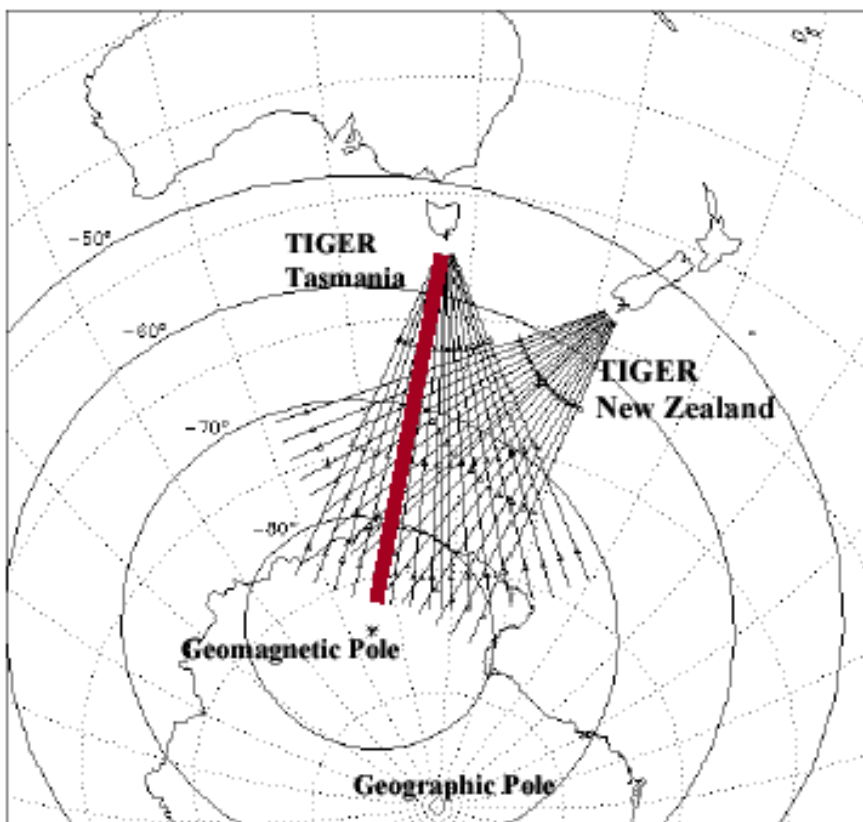
*Monthly journal of the
New Zealand Radio DX League (est. 1948)*

March 2004 - Volume 56 Number 5

<http://radiodx.com>



Tasman International Geospace Environment Radar (TIGER)



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FRONT COVER

A Pulse HF Radar System is being erected on the historic Awarua radio site and will be operated by the La Trobe University in Victoria, Australia.

It is designed to look at the Southern Aurora, the Ionosphere and Sunspot activity using HF Radar pulses in the 8-20 MHz range.

The Awarua site is located very near to the Southland Branch Listening Post at Tiwai and whether it causes any interference will be of interest to those who listen from the Tiwai site and possibly also for other SW/MW Listeners around New Zealand

More information page 23.

Coming up in next Month's Magazine (April)

Remember to update your Ladder totals.

Stuart Forsyth
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CONTINENTS LISTINGS

will also be in next month's DX Times

Featured Continent will be North America

Thanks to those who have recently updated their totals

Your contributions are most welcome either to PO Box 3011 Auckland or direct to ANDY MCQUEEN at

85 Waimea West Road

Brightwater

Nelson

or you can email Andy at

bandwatch.over9@radiodx.com



Please note that all frequencies should be in Kilohertz and, time in UTC (= GMT = UT), # indicates reception out of the Sth Pacific area, initials in **Bold** indicates 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

2310#	1212	AUSTRALIA, ABC Alice Springs with "Concert for George", ABC ID at 1223, good // Tennant Creek fair and Katherine poor - # RADF 9/2
2390#	0058	MEXICO, R Huayacocotia prior to s/off with Ranchera music, brief Spanish talks, ID, and s/off announcements, choral Natl Anthem, weak - # RADF 11/2
2850	0920	NTH KOREA, Korean Central BS poor/noisy with music prgm — BT 15/2
3235#	1040	PERU, R Luz y Sonido with OA vocals and fast talking MA, poor - # RADF 10/2
3250#	0350	HONDURAS, R Luzy Vida closing with EE announcements, freqs, then off at 0353 - # JB 8/2
3255	1708	STH AFRICA, BBC WS (tent) poor in EE with news and comment with QRN and local noise causing problems — KVB 3/2
3279.5	0728	ECUADOR, R Maria del Ecuador poor/fair with Catholic prgm — PWO 3/3
3279.5#	0923	ECUADOR, R Maria, via LV del Napo, with phone-ins, good, into Napo prgm at 0903 - # JB 10/2
3306#	0412	ZIMBABWE, R Zimbabwe, with what sounded like news in progress, then mention of R Zimbabwe, T/C, Afro vocal music, ID 0425, faded out 0436. Also heard 8/2, 17/2 - # JB 15/2
3310#	1005	BOLIVIA, R Mosoj Chaski with MA with talk in Quechua, Spanish ID noted 1015, v poor all 3 days - # RADF 11/2
3320#	0028	STH AFRICA, R Songergrense with mix of EE, German, French lyric vocals hosted by OM in Afrikaans, ID and news at 0300 followed by ads, fair v - # RAD 14/2
3355#	1143	PNG, R Simbu with country music with MA in EE and Tok Pisin, closing announcements 1200 followed by conch shell and brief Natl Anthem, poor/fair - # RADF 10/2
3365#	1209	PNG, R Milne Bay with FA in EE and Tok Pisin, news in EE at 1210, fair - # RADF 9/2
3375#	0858	BRAZIL, R Ecucadora good at opening with intro message, full ID with calls, MW and SW freqsthen into upbeat music prgm - # JB 14/2
3385#	1144	PNG, R East New Britain ad in EE followed by FA in EE and Tok Pisin, rock vocals and ads, at 1158 FA mentioned station was #1 and talked about PNG, poor/fair - # RADF 9/2
3955	1808	UK, R Taipei Intl poor in EE with news, ID 1815 followed by Hakka World — KAB 8/2
4052.5#	0405	GUATEMALA, R Verdad with marimba music and Fain Spanish, 0415 relig prgm in Spanish, later Spiritual Songs in EE with good EE ID 0554, freq, address, Spanish ID and s/off with Natl Anthem - # RAD 25/1
4635	1839	TAJIKISTAN, Tajik Radio poor though in the clear with local music — PWO 1/3
4722.8#	1018	BOLIVIA, R Unica rustic vocals by OM with Spanish chatter and IDs, poor# RADF 9/2

4760 0620 LIBERIA, ELWA presumed the very weak signal here with EE relig prgm PWO 12/2
4760# 2151 LIBERIA, ELWA with relig talk in EE and choir music, new prgm at 2200 , s/off
ID and announcements by OM 2230 followed by Natl Anthem, poor with
very deep fades - # RADF 8/2

4770 1752 NIGERIA, V of Nigeria Kaduna weak though clear with agricultural item — PWO 22/2
4773.8# 1113 ECUADOR, R Centinela del Sur MA with long political talk in Spanish, brief
music then ID Ads, and another long talk, fair/good - # RADF 9/2

4781.4# 1015 ECUADOR, R Oriental OM with Spanish talk, ID, announcements, ads strings,
poor - # RADF 10/2

4790 0924 INDONESIA, RRI Fak Fak (tent) fair in Indonesian, Koran, drums, ethnic music,
poor audio — KVB 19/2

4790 1808 INDONESIA, RRI Fak Fak on early with talk by FA then Koran — PWO 11/2
4790# 0004 INDIA, AIR Chennai with Hindi vocals followed by Tamil talk, long talks, ID,
closedown announcements, poor - # RADF 10/2

4790# 1240 INDONESIA, RRI Fak Fak with Indonesian pop music by female singer, Song
of Coconut Is at 1259.45 followed by talk in Indonesian, poor/fair - # RADF 9/2

4795 1756 RUSSIA, Buryatskaya GTRK, Ulan Ude premed the poor signal with classical
music, abruptly off at 1800 time pips — PWO 22/2

4810 0530 MEXICO, R Transcontinental presumed the weak stn here with ezl music,
improving in strength past 0700 and still going past 0900 — PWO 14/2

4810 1825 ARMENIA, V of Armenia poor/fair with music — PWO 15/2
4810# 0345 MEXICO, XERTA, R Transcontinental with easy listening music until OM with
Spanish ID and freqs, pop vocals, fair - # RAD 15/2

4835 0818 AUSTRALIA, VL8A Alice Springs fair with EE pops, announcements, financial
news at 0819, VL8T Tennant Creek similar, VL8K Katherine buried under R
Rebelde 5025 — PWO 1/3

4835 1830 MALI, RTV Malienne weak in vernac. Also heard around 0630 with Afro
rhythms — PWO 4/2

4840# 0026 INDIA, AIR Mumbai flute music until 0030 ID and EE news, ID at 0035 followed
by brief talk and vocals, fair - # RADF 10/2

4845 0730 MAURITANIA, R Mauritanie good with Koran in Arabic — PWO 1/3
4845 1833 MAURITANIA, R Mauritanie poor with FA in Arabic, some bursts of Ute QRM.
Also noted s/on at 0700 with Koran a few minutes later — PWO 4/2

4860 1836 INDIA, AIR New Delhi fair with Indian music — PWO 4/2
4869.5 0912 INDONESIA, RRI Wamena good with fair audio with ethnic music until 0930
s/on and possible news, ID 0935 — KVB 8/2

4869.9 0745 ECUADOR, La Voz Del Upano relay of R Mari, fair with back to back chanting,
ID 0758 // 3279.9 — PWO 29/2

4869.9# 2335 ECUADOR, Voz del Upano re-activated with light music followed by relig
male vocal at 2353, ID 0000 then more singing and prayers - # JB 28/2

4870# 1225 INDONESIA, RRI Wamena with pops hosted by MA with brief Indonesian
talks, ID at 1300, into news, fair - # RADF9/2

4875# 0344 BRAZIL, R Dif Roraima with vocals and MA in Portuguese with talk until
0359 ID, canned s/off and Natl Anthem, fair - # RAD 28/1

4885# 0433 BRAZIL, R Dif Acreana with OM with Portuguese talk, pop music, jingle ID

0456 followed by ID and s/off 0457 - # RAD 24/1

4890 1830 PNG, NBC Port Moresby fair with sports news from ABC in EE — PWO 19/2

4890# 1240 PNG, NBC Karai Service, mix of Island and pop music, phone-ins, ID as Karai National Radio prior to news at 1300, very good - # RADF 10/2

4895# 0343 BRAZIL, R Bare pop vocals with OM with Portuguese talks and numerous IDs - # RADF 9/2

4895# 1220 INDIA, AIR Kurseong vocals, brief talk by FA, 5+1 time pips at 1230, followed by EE ID and news, - # RAD 28/1

4905 1755 CHINA, Xizang PBS on late with Tibetan talk, off abruptly after music interlude and short announcement at 1800 — PWO 24/2

4910 1840 ZAMBIA, R Zambia poor but in clear with talk in vernac — PWO 4/2

4910# 0237 ZAMBIA, R Zambia/Radio One with call of fish eagle at 0240 , Natl Anthem 0250 followed by ID and s/on in vernac but many mentions of Zambia, mix of local vocals, drums, with EE talk and EE "Radio Zambia" ID 0255, "Radio One" ID 0323, good - # RAD 6/2, 24/1

4915# 2135 GHANA, GBC choir vocals followed by OM in EE with relig talk until ID at 2200 followed by news, very good - # RADF 8/2

4920 1639 TIBET, Xizang PBS fair with indig music, YL announcing, some noise // 5240, 7385, 9490 the same — CC 28/2

4920# 1227 INDIA, AIR Chennai with Hindi vocals, brief talk prior to 4+1 time pips at 1230 followed by EE ID and news, poor - # RAD 5/2

4920# 2236 CHINA, Xizang PBS prgm of Tibetan talks and instrumental music, fanfare at 2300 followed by news and ID , poor - # RADF 10/2

4930 1811 TURKMENISTAN, Turkmen Radio poor/fair with light music in LSB mode — PWO 25/2

4935# 2325 BRAZIL, R Capixaba with long relig talk in Portuguese with full ID 2358, fair # RADF 8/2

4950# 0353 ANGOLA, pop music prgm, at 0400 TC followed by several IDs, more IDs after news followed by music with MA in Portuguese - # RADF 9/2

4950# 0458 ANGOLA, R Nacional good with light Afro music, 0459 full ID then 4 time pips and news, nice ID with fan fare 0508, heard several times lately - # JB 7/2

4955 0958 PERU, R Cultural Amauta (tent) fair in Quechua with Andean music, talk, possible relig service — KVB 17/2

4955# 0933 PERU, R Cultural Amauta with ID with SW and FM freqs - # JB 9/2

4955# 1043 PERU, R Cultural Amauta with prgm of relig talks with brief music, ID and city location noted 1100 before more long talks, fair/good - # RADF 9/2

4965 1833 ZAMBIA, Christian Voice poor with female preacher in EE — PWO 19/2

4965# 0030 ZAMBIA, Christian Voice with EE pops0035 comment in EE, Music, ID giving address in Zambia and UK, more music - # JB 14/2

4965# 0950 PERU, R Santa Monica with OA vocals with Spanish talk and IDs, fair - # RADF 9/2

4974.8 0718 PERU, Pacifico del Radio fair with OM preacher in Spanish — PWO 28/2

4975 0745 PERU, R Del Pacifico good in Spanish, ID at 0800 — IC 15/2

4980# 0008 CHINA, Xinjiang PBS (presumed) with talk by MA/FA in presumed Uighur language, some vocals, weak - # RADF 10/2

4990# 0339 SURINAM, R Apintie with EE ID for SW, MW, FM - # JB 8/2

4991# 0931 PERU, R ancash with fast ads in Spanish, prgm of rustic vocals with IDs, TCs, poor - # RADF 10/2

5009.6# 1102 PERU, R Altura weak with quick ID, OA music, no sign of Dom Rep this day# JB 27/2
5010 1802 MADAGASCAR, R Madagascar poor/fair with indig music, ID by FA in French PWO 10/2
5010# 0032 INDIA, AIR Thiruvananthapuram with news in EE, ID, flute music, and commentary, another ID at 0040 followed by Hindi music, fair - # RADF 10/2
5010# 0308 MADAGASCAR, RTV Malagasy with talk in Malagasy with local music, ID, speech, back to music and talk, fair/good but fading 0330 - # RADF 11/2
5015 1814 TURKMENISTAN, Turkmen Radio poor/fair with varied prgm of ME sounding music, talk and ads _ PWO 10/2
5015# 2348 BRAZIL, R Pioneira with rustic vocals with MA with Portuguese talk, no ID noted, Off with simple ID and no anthem, poor - # RADF 8/2
5019.9# 1102 PERU, R Horizonte strong with IDs, TCs, talk, OA music, blocking Solomon IS# JB 10/2
5019.9# 1120 PERU, R Horizonte with MA and Spanish talk, ad string, OA vocals and ID and TC at 1133, fair - # RADF
5020 0815 SOLOMON IS, SIBC with relig prgm by OM, messages for Islanders, ID, v good — BT 15/2
5020 1843 SOLOMON IS, SIBC poor with relay of BBC WS in EE — PWO 4/2
5025 0706 CUBA, R Rebelde good with Cuban salsa music, best heard for many years PWO 28/2
5025 0901 CUBA, R Rebelde carrying "Radio Internacional de Libro 2004" in Spanish, excellent — AJS 16/2
5025# 1047 PERU, R Quillabamba with MA in Spanish with OA vocals, ID and TC at 1503 after song, fair - # RADF 10/2
5025# 2213 BENIN, ORTB Parakou (presumed) with two OM in French talk, fair subject to deep fades - # RADF 8/2
5026# 0415 UGANDA, R Uganda with MA in EE with ID 0432, fair - # RAD 5/2
5027 1807 PAKISTAN, R Pakistan poor with talk in Urdu then into Koran — PWO 25/2
5030# 0626 BURKINA FASO, R Burkina good with Afro pops at 0630 into Contact prgm with listeners letters, back to music 0646 - # JB 14/2
5030# 1012 PERU, R Los Andes rustic OA vocals with MA in Spanish, frequent T/Cs, IDs, fair - # RAD Ω
5030# 2238 BURKINA FASO, R Burkina with OM with long French talks followed by tribal vocals, more talks and drum music, ID 2300, poor/fair - # RAD21/1
5045 0819 BRAZIL, R Guaruja Paulista fair with serteneja music. Other Brazilians heard were Aparecida 5035, Brazil Central 4985, Difusora, Pocos de Caldas 4945, Capixaba 4935, Anhanguera & Difusora Macapa 4915, Bare 4895, Cancao Nova 4825, Difusora Londrina 4815, & Congonhas 4775 — PWO 14/2
5049.9 1833 AUSTRALIA, ARDS Humpty Doo weak with talk in EE — PWO 15/2
5105 0835 USA, WBCQ with the Overcomer, WBCQ ID at 0901// 5070 is the same broadcast but via WWCR at this time — IC 2/2
5470.8# 1106 PERU, R San Nicolas (tent) with flute music, MA with possible opening ID followed by OA vocals, v weak - # RADF 10/2
5486.7# 1053 PERU, Reina de la Selva MA in Spanish announcements, ads, rustic OA vocals, mentions of "Chachapoyas", poor with deep fades - # RADF 11/2
5765 1614 GUAM, AFN good on USB with talk about auto repairs in EE — CC 28/2
5915 1810 SLOVAKIA, R Slovakia Intl good in French with comment, ID 1810 — KAB 10/2
5940 0745 RUSSIA, R Rossii presume Far East location with talk in Russian, some Ute

QRM — PWO 4/2

5952.4# 0830 BOLIVIA, R Pio XIII quite good at 0830 but not heard on several recent checks - # JB
5952.5# 1018 BOLIVIA, R Pio Doce talk in Spanish by MA/FA, brief music followed by IDs
and jingle, news 1001 by MA, fair - # RADF 9/2

5965 0825 BRAZIL, R Gazeta with Portuguese talk, clear once RVI s/off at 0825 — PWO 4/2
5975 1623 STH BKOREA, RKI fair in EE with YL with "Worldwide Friendship" prgm, some
QRM — CC 28/2

5985 0845 UK, RVI via Skelton good in Dutch, soft music, strongest Euro signal on band
at this time — PWO 4/2

5993.2# 0858 BRAZIL, R Senado opening music followed by OM with ID and s/on
announcements, excellent with more pop music, news and IDs - # RADF 10/2

5994.8 0845 AUSTRALIA, R Australia Brandon noted slightly off freq, with talk in EE — PWO 4/2
6000 0750 BRAZIL, R Guiaba v good in Portuguese, great IDs at 0800 — IC 24/2
6000 0800 BRAZIL, R Guaiba Porto Alegre poor/fair though in the clear at s/on with
lively prgm in Portuguese — PWO 4/2

6000 0826 BRAZIL, R Guaiba fair in Portuguese, MA bright music, ads, lots of IDs, TCs
0837, T/S 0845 — KVB Ω

6005 0730 GERMANY, Deutschland Radio fair with talk in German, ID, economics
correspondent — PWO 4/2

6005# 2223 GERMANY, Deutschland Radio FA with German talk and playing French lyric
pop music, ID and 4+1 time pips at 2300 followed by news, fair and in the
clear - # RADF 10/2

6010# 0903 MEXICO, R Mil fair with ID giving SW call, freq, Mb, blocked by HCJB in
German at 0930-1030 - # JB 29/2

6015 1900 GERMANY, Bible Voice fair in EE — IC 2/2
6020 0445 TURKEY, VOT weak in EE — IC 2/2
6020 1800 MADAGASCAR, R Netherlands fair in EE with OM with opening ID and
announcements, rather noisy — CC 8/2

6020 1811 MADAGASCAR, R Netherlands poor in EE with News Line, ID 1814 — KAB 9/2
6020.2 0639 PERU, La Voz de la Liberacion via R Victoria poor/fair with M/F preachers in
Spanish — PWO 3/3

6020.2# 1030 PERU, R Victoria good in Portuguese and Spanish at this time, ID 1055 - # JB 29/2
6025 1805 HUNGARY, R Budapest fair in Russian with news, ID 1808 — KAB 10/2
6025# 0040 UNID, Christian preaching and prayers for Iraq in US EE non-stop from tune-
in to past 0330, no ID given or heard. At 0330 prgm stopped and RCI came
on in Arabic via Germany, 0359 Budapest with no sign of relig stn - # JB 28/2

6030# 0845 CANADA, CFVP with CKMX MW ID, C&W vocal then another ID for Calgarys
AM 1060 CKMX, Two more IDs 0900 then into EE news and gone by 0905,
poor - # JB 9/2

6035# 0940 COLOMBIA, LV del Guaviare good with HJ music brief IDs and Tcswith full ID
0959 - # JB

6040 0745 BRAZIL, R Clube Paranaense poor/fair with relig talk in Portuguese — PWO 4/2
6040 0847 BRAZIL, R Clube Paranaense good in Portuguese with crowing sounds and
IDs — AJS 22/2

6040 0849 BRAZIL, R Paranaense fair in Portuguese, MA lively music and ads, ID 0855 — KVB

6040	1803	MOROCCO, VOA good in EE with comment on US primaries, ID 1805 — KAB 10/2
6040	1830	MOROCCO, VOA fair with Dateline in EE — PWO 3/2
6045#	0317	MEXICO, R Universidad in Spanish with phone-ins and local music, IDs at 0336 and 0343, clear but weak - # RADF 10/2
6055	0520	SPAIN, REE v good in Spanish with comment — KAB 11/2
6055	0730	JAPAN, R Tampa poor in Japanese with lively discussion, improving steadily past 0900 — PWO 4/2
6055	0850	JAPAN, R Tampa excellent in Japanese with MA & FA — AJS 22/2
6055#	2041	RWANDA, R Rwanda long talk in French followed by EE singer, 2056 ID and s/off announcements, Natl Anthem 2058, four time pips 2100 then off - # RADF
6060#	0859	ARGENTINA, LRA1 on 6059.9 with full ID for LRA1, 870MW at 0900 - # JB 26/2
6065	1830	SWEDEN, R Sweden fair in EE with item on politics in Sweden, sked 1830, 1900 — PWO 3/2
6065	1852	SWEDEN, R Sweden fair in EE with Sports Scan — KAB 9/2
6070	0730	CHILE, Voz Critiana v good in Spanish version of this day in history — PWO 4/2
6080	0800	BRAZIL, R Novas de Paz Curitiba in the clear at s/on, fair with mostly spoken prgm with some ads, obliterated by HCJB at 0830 s/on in Quechua PWO 4/2
6105	0800	USA, WYFR fair with usual relig talk at s/on at 08000, R Cancao Nova heard underneath- PWO 4/2
6105#	0225	COSTA RICA, R Universidad with usual long blocks of classical music, good ID at 0300, fair but poor modulation - # RAD 13/2
6105#	0545	COSTA RICA, R Universidad with classical music ID 0555, music, ID 0600 then prgm off with carrier on. Voice audio so overmodulated to be useless but music OK - # JB 14/2
6105#	1156	COSTA RICA, R Universidad with music past top of hour then 1202 MA with Spanish talk and ID, returned to non-stop classical music, fair - # RADF 11/2
6110	0520	CANADA, R Japan via Sackville fair in EE with Japanese pop tunes, ID 0521, then item on annual labour negotiations — KAB 11/2
6115.1	0815	PERU, R Union poor with Latin pops presume Txer problems as normally strong here — PWO 4/2
6120	0730	FINLAND, R Finland poor/fair with spoken prgm in Finnish — PWO 4/2
6120	2015	TURKEY, VOT weak in Turkish // 9560 v good — IC 9/2
6125	0830	ECUADOR, HCJB good in Quechua // 6080 — PWO 4/2
6134.8	0815	BRAZIL, R Aparecida good/fair with lively breakfast show — PWO 4/2
6134.8#	1010	BOLIVIA, R Santa Cruz with prgm of rustic Bolivian vocals with Spanish announcements and ID cat 1013 - # RADF 9/2
6139.8#	0427	COLOMBIA, "La 730"(R Melodia) good with ID . Same ID at 0830 after a rundown of their FM stns, no het then and strong - # JB 29/2
6145	0745	JAPAN, R Japan with Japanese talk, poor/fair and // 6165, service to East Russia, heard carrying Russian 0800, IDed in EE — PWO 4/2
6150#	2355	SINGAPORE, R Singapore choppy with male vocal brief talking then "News Radio 938" ID before being swamped by RCI/R Japan - # JB 14/2
6155	0730	AUSTRIA, R Austria Intl excellent in German with classical music prgm — PWO 4/2
6160	0658	CANADA, CBC Vancouver, poor/fair in EE news, weather, classical music, ID 0704 — KVB 28/2

6160	0730	CANADA, CKZU Vancouver poor/fair with classical music prgm — PWO 4/2
6170	0840	BRAZIL, R Cultura fair in Portuguese, OM with clear unhurried speech taking phone-ins, music interludes, ID 0859 — KVB 28/2
6170#	0720	BRAZIL, R Cultural S.P., carrier at tune-in light vocals started 0740, talk and music prgm 0745 — 0758, no ID0800 full ID with freqs and calls, fair but choppy — # JB 13/2
6180	0745	BRAZIL, R Nacional fair/good with lively prgm of music and talk — PWO 4/2
6180	0807	BRAZIL, R Nacional da Amazonia fair/good in Portuguese with long periods of talk with phone-ins and music interludes, ID 0901 — KVB 28/2
6180	0900	BRAZIL, R Nacional de Amazonias excellent in Portuguese with lively music show — AJS 10/2
6183.2#	0045	BRAZIL, R Nacional de Amazonia off freq with Portuguese vocals // 11780 - # JB 29/2
6185	0745	MEXICO, XEEP Radio Educacion fair/good with tango music, ID in EE and Spanish — PWO 4/2
6205	1533	RUSSIA, VORWS good in EE with OM/YL talking about Russian winter // 11500 the same — CC 14/2
6210	1800	ETHIOPIA, R Fana, spoken prgm with Fana mentioned several times, fair — JD3/2
6235#	2119	CIS, Kaliningrad, V of Russia with Mailbag prgm in EE until 2130 ID followed by Music Around Us prgm, poor/fair - # RADF 10/2
6295#	2150	IRELAND, Reflections Europe (tent) noted with a mix of EE relig talk and inspirational music, apparent ID and s/off 2332, poor with ute QRM - # RADF 8/2
6536#	0047	PERU, R Ponderosa MA with Spanish announcements, OA vocals, ID and s/off announcements 0141 followed by choral Natl Anthem - # RADF 11/2
6925#	0411	PIRATE (Nth Am), KAOS with rock tunes and ID at 0414 and at s/off at 0421 with Belfast NY address, poor/fair - # RAD 15/2
6925#	2123	PIRATE, (Nth Am) Grasscutter Radio and Sunshine Radio with joint broadcast, pops, ID, moved into Sunshine Radio prgm of oldies, poor/fair - # RAD 7/2
6940	1820	ETHIOPIA, R Fana poor/fair with Horn of Africa music, some talk, best in LSB to avoid ute QRM — PWO 2/3
6950#	2203	PIRATE (Nth Am), WHYP on USB good with ID at 2209 - # RAD 7/2
6961	1714	SOMALIA, Tent R Shabele with spoken prgm plus typical Horn of Africa music, poor with no ID — JD
6973	1835	ISRAEL, Galei Zahal fair with talk in Hebrew then childrens choir — PWO 2/3
7170	0530	UK, VOA via Wooferton v good in EE with news- erosion of the dollar — KAB 11/2
7180	9525	CIS, V of Russia v good in EE with comment on rocket launch, ID 0527 — KAB 11/2
7185	1814	BANGLDESH, Bangla Betar poor/fair in EE with comment on sub continent news, T/C 1815, followed by music, ID 1816 followed by FA — KAB 11/2
7190	1530	IRAN, VOIRI fair/good in EE with OM opening with ID and anthem, some distortion // 9610 clearer — CC 10/2
7200#	0427	SUDAN, Sudan Natl Radio Corp in Arabic under R Cairo, came clear 0430 with news in Arabic until 0440, ID then vocals followed by talks and brief music, ID 0459, smothered by D Welle opening 0500 - # RAD 14/2
7265#	0257	ASCENCION IS, VOA fair in EE with Daybreak Africa prgm - # RAD 22/1
7315	0426	FRANCE, RFI good in French with OM speaking // 9790 weaker with QRM CC 7/2
7360	0515	VATICAN, R Vaticana fair in EE with comment on Palestine and Israel — KAB 11/2

7365	2025	VATICAN, R Vaticana poor in EE with African Catholic news, ID 2029 — KAB 11/2
7380	0613	MONACO, TWR with tuning signal, on 0615 in Polish and off at 0630 , good — IC 8/2
7410	2050	INDIA, AIR via Khampur weak in EE — IC 18/2
7460#	2302	CLANDESTINE, R Nacional de la Republica Arabe Saharai Democratica with vovals prior to close of Arabic prgm, Spanish ID followed by music, s/ off ID and closedown0001followed by short Natl Anthem, good - # RAD 29/1
7520	0530	USA, WYFR fair in EE with usual relig prgm — KAB 11/2
7560#	1900	LITHUANIA, R Ezra weak with all talk, just enough to get positive ID at the end - # JB 15/2
7570	0530	USA, WEWN good in EE with Catholic relig prgm on various bibles — KAB 11/2
7580	0530	USA, WHRA good in EE with comment on health problems, ads, relig prgm KAB 11/2

Logging of the month

goes to

Kelvin Brayshaw for **RRI Wamena**, INDONESIA on 4869.5 at 300W,
and

Paul Ormandy for **R Transcontinental**, MEXICO on 4810 at 500 W.

My thanks to all the contributors for the month, with a good variety of loggings this month.

73's

Ken Baird

CONTRIBUTORS FOR THIS MONTH

AJS	Andrew Sunde, Ohai, ICF-2001, 3.5 MHz dipole, 40m wire
BT	Bob Talbot, Waitara, Taranaki, Yaesu 8800, long wire, 7m whip :
CC	Cliff Couch, Paraparaumu, ATS 803A, 60m horizontal loop.
IC	Ian Cattermole, Blenheim, JRC NRD535, T2FD and Alpha Delta sloper
JB	Jerry Berg, Lexington, MA, USA, R8, 130ft longwire, 19, 41, & 90m dipoles
JD	John Durham, Tauranga
KAB	Ken Baird, Christchurch, R5000, Palstar R30, 18m Wire, SW Eavesdropper
KVB	Kelvin Brayshaw, Levin, FRG7, ICF2001, 5MHz Delta Loop
PWO	Paul Ormandy, Oamaru, AOR 7030+, numerous dipoles
RAD	Richard D'Angelo Wyomissing USA, Ten-Tec RX-340, R8B, Lowe HF 150, Alpha Delta sloper, RF Systems mini windom, Datong FL3, JPS ANC4
RADF	Rich D'AngeloFrench Creek State Park Dxpediton, USA, Ten-Tec RX-340, Drake R-8B, 500 ft wire north, 200 ft wire Sth East.

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,

e-mail to ka.baird@xtra.co.nz

bandwatch.over9@radiodx.com

Compiled by Andy McQueen, Brightwater

Hello from Brightwater where the Wine festival is over for another year. The helicopters are now in the air the guns are going off. No it's not Vietnam just the Police on the annual marijuana hunt and the vineyards scaring off all birds. My condolences to those in the Lower North Island and Picton so badly affected by flooding, but please watchout for the river of tears flowing out of Auckland now that their Blues have been beaten in three of their four Super 12 games Daylight Savings Time has now finished so all times shown are UTC 12 hours behind NZ Standard Time.

KHZ	TIME	COUNTRY STATION & PGM DETAILS INITIAL
9290	1746	LATVIA Ulbroka R Marabu heard on 9/2. Also at 1600 R. Geronimo on 22/2. 1545 European Music R. on 3/02. 1646 R Mi Amigo tests on 1/3. all heard at fair to good level 22/2 JD
9290#	2100	LATVIA. European Music Radio Poor/Fair mainly in EE. All rock vocals, Madonna, Blondie, Bob Marley Id's before some songs, E-mail address emr@blueyonder.co.uk postal addresses (EMR, c/o T. Taylor, 32 Briscoe Road, Colliers Wood, London SW19 2AQ), request for \$1 or IRC for QSL 7/2 JB
9425	1915	INDIA AIR Bangalore. Good in Hindi. EE news at 1936. //9470 via Aligarh also good. 17/2 IC
9525	2140	TURKEY Voice of Turkey Good in EE with News items, DX Corner, music. (Tx break) conditions in Turkey 6000 yrs ago, Stn Id. 8/2 BT
9575	2045	INDIA AIR Panaji. VG in EE. 16/2 IC
9590	0800	AUSTRALIA R Australia V/Good in EE. 25/2 IC
9645	0413	BRAZIL R Bandeirantes Weak in PP with talk pgm // 11925 a little noisy 7/2 CC
9710	0845	LITHUNIA Radio Vilnius, Id in EE by M/A till 0900 then F/A with news, got this while listening to Radio Australia. good signal 2/3 RRD
9755	0400	CANADA R Monte Carlo via Sackville Excellent in AA 0359 RCI Int. Sig then RMC signs on and Id News and correspondents reports All topical Bush Iraq Israel EU etc Plenty of Id's at end. Off at 0420 20/2 RFK
9755	0400	FRENCH GUIANA CRI via Montsinery Barely audible under RMC Good in after 0420 with News review - agricultural report then sports news At 0430 Life in China all about ecology 20/2 RFK
9790	2100	GABON RFI Fair in FF, formal speech, interview and possible Nx, magazine pgm. Id in FF/EE 2100 1/2 KVB
9810	1230	THAILAND R. Thailand. VG in EE. 25/2 IC
9860	0730	RUSSIA VOR. VG in EE. 11/2 IC
9885	0512	BOTSWANA VOA Good in Hausa with Africa Nx item with EE field reports. 0529 I/S Id in EE 12/2 KVB
9895	1845	HOLLAND R Nederland V/good in EE item on fighting terrorism, music & voice of humanity. 8/2 BT
9960	2045	ARMENIA Voice of Armenia. Poor in EE. 24/2 IC
11335	1518	NTH KOREA V of Korea Fair in EE with News Id at 1520 // 9335 stronger 10/2 CC
11510	1910	RUSSIA Voice of Russia. Good in EE News coverage, investments in IT ex

Canada Trading in Russia, world news, kaleidoscope 8/2 BT
11550 1744 TAIWAN RTI Fair in EE with Id and 'Lets Learn Chinese' 8/2 CC
11600 0115 BULGARIA R Bulgaria Fair in Bulgarian Music & spoken pgm 13/2 CC
11620 2221 INDIA All India Radio. Good in EE music, news, Stn Id sign off 2231 8/2 BT
11635 1910 FRANCE Libyan Jamahiriya BC. Good in AA. the EE/FF news. // 11715. 8/2 IC
11655 0437 PORTUGAL RDP Good in PP with spoken pgm // 13700 the same //9715 weaker 13/2 CC
11690 0750 GERMANY R. Africa Int. via DTK VG in FF. 2/3 IC
11690 1518 JORDAN R Jordan Fair in EE with Valentine days phone in Id at 1600 Some QRM 14/2 CC
11720 1900 PHILIPPINES VOA Good in EE with Border crossings musical pgm, VOA news 14/2 BT
11750 0740 GREECE Voice of Greece. Fair in Greek until swamped by HCJB Oz at 0758. Off at 0800.//17520 better. 2/3 IC
11750 0758 AUSTRALIA HCJB Kunumara S/on in EE Good with some bad splatter at times from Finland 11755 Covered Sth Pacific NZ floods Tuvalu spring Tides and Words for Women pgm (The less the better? Ed) 18/2 **RFK**
11755 0629 FINLAND YLE Excellent in Finish Nx pgm People & places of the day with US bias Many reports commenced in EE about Bush Washington Federation of Labour etc 20/2 **RFK**
11765 0356 BRAZIL R Tupi Fair in PP with "La Palabra" religious pgm. 0420 QRM BBC Relay Meyerton. Id 0404 23/2 KVB
11765 0426 SOUTH AFRICA BBC WS, Poor/Fair in EE sports results, Palestine/Israel update, headlines, Id 0428 23/2 KVB
11765 0155 ASCENSION ISL(?), RAI (tent), Poor/Fair in unknown language with long discussion 0227 Mx. 28/2 KVB (Can anyone Id this station ? - Ed)
11775 0254 USA R MARTI Fair in SS with Phone-in, talk, Nx Id I/Sig 0300 26/2 KVB
11775 1815 SAO TOME VOA weak but clear sig in PP EE Id 1829 6/2 KVB
11800 1300 CHINA CNR. V/Good in EE. Id's as China Business Radio for this EE language pgm. 27/2 IC
11845 2000 GERMANY AWR via DTK. Good with EE ann. then into FF. 1/3 IC
11865 1902 RWANDA D/Welle Fair in EE with Newslink Africa. Quakes in Indonesia, Indian President dissolves Parliament Id 1905 6/2 KVB
11900 1300 CHINA CRI Excellent in EE at S/on News review covering Bird flu Chinese farmers and India-Pakistan peace talks 16/2 **RFK**
11935 1730 GT BRITAIN RCI Skelton V/good at S/on in RR Id then items on Ukraine Putin America EU etc off at 1759&3/4. 17/2 **RFK**
12000 1100 CUBA RHC. Fair in SS. Opens at this time on this new freq. 4/2 IC
12010 2130 GUAM KSDA. Good in EE. 1/2 IC
12035 2300 RWANDA D/Welle Kigali Good in EE at S/on with News &Newslink covering Nuclear black market , People smuggling and Euro Press review 10/2 **RFK**
12070 1545 UZBECKISTAN R Nederland Fair in E with talk on Oil Spill // 12080 & 15595 weaker 14/2 CC
13600 1659 SAO TOME VOA, Fair in African language, s/on, Nx, African Mx. 1730 into EE to Zimbabwe. Id 1659 9/2 KVB
13600 0745 BULGARIA Radio Bulgaria V/Good in EE with Folk music of Bulgaria.15/2 BT

13605 0040 INDIA AIR GOS Fair in EE with sitar music Id 0041 A little scratchy 24/2 CC
 Good but noisy in EE with complete works of a poet, music, news 14/2 BT

13685# 1200 AUSTRALIA Voice Int. Good in EE but fluttery with Id and Nx, then "The Planet"
 pgm, all pops, E-mail address, "Club Retro," host Dave Nicholson, Nx
 summary at 1232. Signal declined after 1230 18/2 JB

13690 0704 RUSSIA R Vlaanderen via Moscow V/good in Dutch with reports some
 commencing in EE about underweight people as a change in Horn of Africa
 and markets 18/2 **RFK**

13710 1330 INDIA. AIR via Bangalore. Good in EE. 18/2 IC

13720 0432 IRAN VOIRI. VG in Urdu? 2/2 IC

13730 1345 AUSTRIA Radio Austria International. Report from Austria Good in EE guilt
 without persecution, green party conference, The week in Business. 21/2 BT

12820 1756 GERMANY R Africa Int. Fair in EE with choir then Id & announcements 8/2 CC

15060 0135 USA WYFR. Weak in EE. 20/2 IC

15075 0431 INDIA AIR Fair in Hindi with Mx and spoken pgm // 15185, & 177515 weaker
 with QRN 7/2 CC

15190# 1920 Radio Pilipinas Weak in Tagalog with talk pgm English Id at S/off 9/2 RAD

15215 0030 PHILIPPINES. R. Veritas Asia. Fair at opening in Bengali. 10/2 IC

15230 0126 CUBA RHC Good in SS with spoken pgm // 11760 much weaker 13/2 CC

15340 0403 NEW ZEALAND RNZI Good in EE with RNZ news and reports on Politics in
 the Sth Pacific 13/3 AMQ

15360 0350 OMAN BBCWS Fair in EE with talk on immigrants adapting to French culture 13/3 AMQ

15520 0030 PHILIPPINES R. Veritas Asia. Fair in Tamil. 9/2 IC

15415 2155 AUSTRALIA R Australia Good in Indonesian with mentions of Marco Polo
 and spaghetti 29/2 FRG

15445 1706 BOTSWANA VOA Poor/fair in EE, pgm on All Africa Games, C'wealth Games.
 1730 "Music Time in Africa. Id 1729 8/2 KVB

15560 0121 AUSTRALIA HCJB Kununurra V/good in EE with 'In touch' pgm 0130 Asian
 Nx 0200 Music of Oz 19/2 **RFK**

15580 0830 NTH MARIANAS KFBS FEBC Saipan V/good in Indonesian Full ID at 0830 S/
 on then talks mention Malaysia Singapore Indonesia etc with some musical
 breaks EE id at 0900 19/2 **RFK**

15650 1327 GUAM KSDA AWR V/Good in EE 'Beautiful Island of Guam' Id then EE s/on
 for 1330 and London pgm on "Our World" pgm snakes and spiders Health
 goitre and at 1400 pgm in Sinhala 17/2 **RFK**

15675 0400 ERITREA? Voice Of Liberty probably via Moldova. Weak but clear in Amharic. 22/2 IC

17565 0630 UAE. Radio Mustaqbal (EDC) Good signal but heavy QRM co-channel CNR.
 This transmission Monday, Tues, Thurs. via Dhabayya. 23/2 This frequency
 also used via Meyerton same days but at 1202utc.IC

17565# 1203 SOUTH AFRICA CLANDESTINE Educational Development Center (EDC)
 "Mustaqbal" pgm (via Sentech Mix of Somali talks and Horn of Africa music.
 Announcements in Somali at 1229 followed by an EE announcement
 at 1230 10/2 RAD

1215A# 1215A# Poor in Somali but with very brief peaks, each soon disappearing. Talk pgm 10/2 JB

17620 1400 FRANCE Radio France International V/good in EE News, Asian bird flu, news

		in depth. 21/2 BT
17895	1000	INDIA AIR via Aligarh. Good in EE. 25/2 IC
21455	0906	AUSTRIA BBC VIA Moosbrunn, Fair in AA talk pgm. Id 0929 1/2 KVB
21630	0613	SRI LANKA R Sawa Very Strong with Music. Id @0615 25/2 RRD
21770	0838	SWITZERLAND Swiss Radio International Good in EE with Swiss info, politics, music. Stn Id 15/2 BT

Thanks very much to all contributors for this month. Stations reported are indicated by the contributors initials underlined in Bold eg: **AMQ** The use of the # symbol is to indicate station reported outside of New Zealand. Please note that I have changed the location of this symbol to beside the frequency.

Have you got any QSL's from REE Spain lately?. Well our N/Am member Jerry Berg reports a full data QSL from the makers of pgm "Espanoles en la Mar" at Apartado 1233, 38080 Santa Cruz de Tenerife, Canary Islands.

This months winning logging

is shared between

John Durham 9290Khz Latvia R Mariubu and
R Davey with 9760 Lithuania R Vilnus

Your contributions are most welcome either to the email address above or Postal via PO Box 3011 Auckland or direct to me at 85 Waimea West Road Brightwater Nelson.

73's

Andy McQueen

SHORTWAVE EXCHANGE

AMQ Andy McQueen Brightwater Sony 6800 and 1 m telescopic whip / **BT** Bob Talbot Waitara Taranaki Yaesu 8800 end feed long wire / **CC** Cliff Couch Paraparumu Sangan ATS 803A with 60m horizontal loop/ & 32m E/W random wire / **IC** Ian Catermole Blenheim JRC NRD 535 T2FD and Alpha Delta antenna / **JB** Jerry Berg Lexington MA USA Drake R8 19m & 90m dipoles / **JD** John Durham Tauranga **KVB** Kelvin Brayshaw Levin FRG-7 & Sony ICF 2001 60m & 40m horizontal loops/ **RAD** Richard D'Angelo Wyomissing, PA USA & on DXpedition Drake R-8B Lowe HF-150 Alpha Delta DX Sloper RF Systems Mini-Window Datong FL3 JPS ANC-4 **RRD** Ray Davey Kenwood R1000 & Sloper 30m / **RFK** Ron Killick Christchurch Sony 6800 & 40m long wire / **RP** Robert Park Lower Hutt Kenwood R 10000

CONTINENTS LISTINGS will be in next month's DX Times

Featured Continent will be North America

Thanks to those who have recently updated their totals

Your contributions are most welcome either to PO Box 3011 Auckland or direct to ANDY MCQUEEN at 85 Waimea West Road Brightwater Nelson or you can email Andy at bandwatch.over9@radiodx.com

english in time order

Compiled by Yuri (George) Muzyka, Auckland



Time Order summary of Ken's Under 9MHz & Andy's Over 9MHz BandWatch columns. Please remember to include the date and signal strength with all your loggings and send them to the Under/Over 9MHz Bandwatch column editors, thanks.

73 - Yuri, ZLIGYM (yuri@win.co.nz <http://www.linradio.com/sources.htm>)

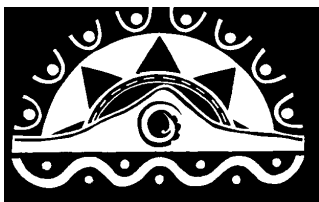
SIGNAL STRENGTHS e = Excellent; g = Good; f = Fair; p = Poor.

Overseas contributors now have "#s around their name initials (eg #ABC#).

Time (UTC)	Frequencies (kHz)	Station Name	Station Country	Log Date	DXer Name
0026-0035	4840f	AIR	INDIA	10/2	#RADF#
0030-0035	4965	Christian Voice	ZAMBIA	14/2	#JB#
0032-0040	5010f	AIR	INDIA	10/2	#RADF#
0040	13605g	AIR	INDIA	14/2	BT
0040-0041	13605	AIR	INDIA	24/2	CC
0121-0200	15560g	HCJB	ECUADOR	19/2	RFK
0135	15060p	WYFR	USA	20/2	IC
0257	7265f	VOA	USA	22/1	#RAD#
0350	15360f	BBCWS	UK	13/3	AMQ
0403	15340g	RNZI	NEW ZEALAND	13/3	AMQ
0415-0432	5026f	R Uganda	UGANDA	5/2	#RAD#
0426-0428	11765f	BBC WS	UK	23/2	KVB
0445	6020p	VOT	TURKEY	2/2	IC
0515	7360f	R Vaticana	VATICAN	11/2	KAB
0520-0521	6110f	R Japan	JAPAN	11/2	KAB
0525-0527	7180g	V of Russia	RUSSIA	11/2	KAB
0530	7170g	VOA	USA	11/2	KAB
0530	7520f	WYFR	USA	11/2	KAB
0530	7570g	WEWN	USA	11/2	KAB
0530	7580g	WHRA	USA	11/2	KAB
0620	4760p	ELWA	LIBERIA	12/2	PWO
0658-0704	6160f	CBC	CANADA	28/2	KVB
0730	9860g	VOR	RUSSIA	11/2	IC
0745	13600g	Radio Bulgaria	BULGARIA	15/2	BT
0758	11750g	HCJB	ECUADOR	18/2	RFK
0800	9590g	R Australia	AUSTRALIA	25/2	IC
0818-0819	4835f	VL8A	AUSTRALIA	1/3	PWO
0838	21770g	Swiss Radio Int	SWITZERLAND	15/2	BT
0845	5994.8	R Australia	AUSTRALIA	4/2	PWO
0845-0905	6030p	CFVP	CANADA	9/2	#JB#
1000	17895g	AIR	INDIA	25/2	IC
1143-1200	3355f	R Simbu	PNG	10/2	#RADF#
1144-1158	3385f	R East New Britain	PNG	9/2	#RADF#

1200-1232	13685g	Voice Int	AUSTRALIA	18/2	#JB#
1209-1210	3365f	R Milne Bay	PNG	9/2	#RADF#
1212-1223	2310g	ABC	AUSTRALIA	9/2	#RADF#
1220-1230	4895	AIR	INDIA	28/1	#RAD#
1227	4920p	AIR	INDIA	5/2	#RAD#
1230	9810g	R Thailand	THAILAND	25/2	IC
1300	11800g	CNR	CHINA	27/2	IC
1300	11900e	CRI	CHINA	16/2	RFK
1330	13710g	AIR	INDIA	18/2	IC
1330-1400	15650g	KSDA/AWR	GUAM	17/2	RFK
1345	13730g	Radio Austria Int	AUSTRIA	21/2	BT
1400	17620g	Radio France Int	FRANCE	21/2	BT
1518-1520	9335g:11335f	V of Korea	NTH KOREA	10/2	CC
1518-1600	11690f	R Jordan	JORDAN	14/2	CC
1530	7190g:9610	VOIRI	IRAN	10/2	CC
1533	6205g:11500g	VORWS	RUSSIA	14/2	CC
1545	12070f:12080p:15595p	R Nederland	NETHERLANDS	14/2	CC
1614	5765(USB)g	AFN	USA	28/2	CC
1623	5975f	RKI	STH KOREA	28/2	CC
1706-1730	15445f	VOA	USA	8/2	KVB
1708	3255p	BBC WS	UK	3/2	KVB
1730	13600f	VOA	USA	9/2	KVB
1744	11550f	RTI	TAIWAN	8/2	CC
1756	12820f	R Africa Int	GERMANY	8/2	CC
1800	6020f	R Netherlands	NETHERLANDS	8/2	CC
1803-1805	6040g	VOA	USA	10/2	KAB
1808-1815	3955p	R Taipei Int	TAIWAN	8/2	KAB
1811-1814	6020p	R Netherlands	NETHERLANDS	9/2	KAB
1814-1815	7185f	Bangla Betar	BANGLDESH	11/2	KAB
1830	4890f	NBC	PNG	19/2	PWO
1830	6040f	VOA	USA	3/2	PWO
1830	6065f	R Sweden	SWEDEN	3/2	PWO
1833	4965p	Christian Voice	ZAMBIA	19/2	PWO
1833	5049.9p	ARDS	AUSTRALIA	15/2	PWO
1843	5020p	SIBC	SOLOMON IS	4/2	PWO
1845	9895g	R Nederland	NETHERLANDS	8/2	BT
1852	6065f	R Sweden	SWEDEN	9/2	KAB
1900	6015f	Bible Voice	AUSTRALIA	2/2	IC
1900	11720g	VOA	USA	14/2	BT
1902-1905	11865f	D/Welle	GERMANY	6/2	KVB
1910	11510g	Voice of Russia	RUSSIA	8/2	BT
1936	9425g:9470g	AIR	INDIA	17/2	IC
2025-2029	7365p	R Vaticana	VATICAN	11/2	KAB
2045	9575g	AIR	INDIA	16/2	IC
2045	9960p	Voice of Armenia	ARMENIA	24/2	IC

2050	7410p	AIR	INDIA	18/2	IC
2100	9290f	European Music Radio	LATVIA	7/2	#JB#
2119-2130	6235f	V of Russia	RUSSIA	10/2	#RADF#
2130	12010g	KSDA	GUAM	1/2	IC
2135-2200	4915g	GBC	GHANA	8/2	#RADF#
2140	9525g	Voice of Turkey	TURKEY	8/2	BT
2150-2332	6295p	Reflections Europe (tent)	IRELAND	8/2	#RADF#
2151-2230	4760p	ELWA	LIBERIA	8/2	#RADF#
2221-2231	11620g	All India Radio	INDIA	8/2	BT
2300	12035g	D/Welle	GERMANY	10/2	RFK



RADIO NEW ZEALAND INTERNATIONAL

TE REO IRIRANGI O AOTEAROA, O TE MOANA-NUI-A-KIWA

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 E-mail address: info@rnzi.com
 Web Address: www.rnzi.com

FREQUENCY SCHEDULE

Dated: 26 February, 2004

A04 : 28 March – 30 October 2004

UTC	NZ Time	kHz	Metre Band	Primary Target
1300 – 1850	0100 – 0650	6095	49	All Pacific, Fiji, Samoa, Cook Islands
1851 – 1950	0651 – 0750	9885	31	NE Pacific, Fiji, Kiribati, Samoa, Cook Islands
1951 - 2050	0751 – 0850	11725	25	All Pacific
2051 - 0458	0851 - 1658	15720	19	All Pacific
0459 - 0705	1659 – 1905	9615	31	All Pacific, also heard Europe, and mid-west USA
0706 - 1059	1906 – 2259	9885	31	All Pacific, also heard mid-west USA
1100 - 1259	2300 – 0059	9885	31	NW Pacific, Bougainville, Timor, Asia

ALBANIA:

Radio Tirana English schedule as follows:

0145-0200utc. And 0230-0300utc To North America 6115 and 7160.

1915-1930utc. To Europe on 7180 and 9510. Also 2130-2200 on 7160 and 9635. (RN News)

BHUTAN:

SCHEDULE CHANGE.

Monitoring by Alok Dasgupta has established that BBS Bhutan now broadcasts in English daily at 1400-1425 UT on 6035 kHz, but has dropped the weekend broadcasts in English that were scheduled at 1000- 1100 (DX Asia via DXLD)

CONGO:

RTVC, 5985, 0430-0450+, abrupt sign-on with local African music. 0431 opening French announcements, with ID, and talk. Fair level but mixing with WYFR (Brian Alexander, DXLD.) Radio Brazzaville is heard occasionally with programming in the French language on the new frequency of 6115 kHz at 1700 UT. The program format at this time consists of African music and spoken features. However, Radio Brazzaville is also noted on 9610 kHz at the same time with a much better reception level. The programming from the Congo at this time is targeted to a local audience but it is well received throughout central Africa.(AWR Wavescan DXLD)

CUBA:

Radio Habana Cuba.

We are now testing FOUR new 100 kW transmitters that you can pick up during our morning local time 1100 to 1500 UTC Spanish language program . "Despertar con Cuba"" 9550 kHz to the Caribbean 11760 kHz North, Central and South America . 11800 kHz South America, 12000 kHz Eastern North America . (RHC via DXLD)

DENMARK:

It's about a year since WMR, World Music Radio began work on re-launching the old station. Unfortunately several things have been delayed over and over again. However Northland Radio in Canada – which is delivering the transmitters to WMR – has promised that the transmitters will be shipped from Canada to Denmark this week. At the same time WMR is considering various alternative transmitter sites (including a site in the South Western part of Denmark and another one on the island of Zealand) and a final decision is hopefully going to be taken later this week. The new WMR studio and a 512 kb Internet- connection have been completed with only a few things still remaining to be taken care of. For instance The Orban Optimod compressor has not arrived yet. Despite all the delays and the things still needing a completion Stn. Mgr. Stig Hartvig Nielsen is still aiming at an On Air date late February. WMR will be broadcasting on 5815 (10 kW Collins) and 15810 (1 kW CCA) – as well as streaming via the Internet. (World Music Radio, Feb 09 via DXLD)

ERITREA (non):

ERITREAN OPPOSITION PARTY TO LAUNCH RADIO STATION ON 22 FEBRUARY.!

[The] EPLF-DP [opposition Eritrean People's Liberation Front-Democratic Party, a splinter group of the ruling People's Front For Democracy and Justice, PFDJ] announces the birth of "Voice of Liberty".

To coincide with its founding congress [due to be held in Frankfurt, Germany], Voice of Liberty will be launched on 22 February 2004 in the following frequency: 15675 kHz, which is in the 19 meter band. The frequency corresponds to 19.14 meter [band].

The programme will be transmitted at 0400-0500 UTC on Sundays, which corresponds to 7 to 8 a.m. local time in Eritrea. During the first and second quarter, transmissions will be made in Tigrinya. Work for the Arabic programme is already under way.

We invite you to take part in this historic event by sending us your views and comments at the following address: Vol-Comments@eritrea.com

Source: Eritrea1.org web site in English 7 Feb 04 (via BBCM via DXLD)

ETHIOPIA (non):

Radio Mustaqbal.

The shortwave transmissions of the "Radio Mustaqbal" radio service for Somali refugees in Ethiopia, organised by EDC - Education Development Center, Inc (USA), started on 19 January 2004 and are due to end with the school year in Ethiopia in July 2004. The programmes are produced locally in Ethiopia, more details about this project can be found at: <http://ies.edc.org/projects/ethiopia.htm> . The organizers are interested in reception reports, especially though from the target zone. Contact: Abdoukader Houssein Ahousessein@edc.org (project assistant). (CUMBRE)

Currently scheduled via Meyerton on 17565khz. 1202-1232utc on Monday, Tuesday and Thursday but heavy QRM from Asian here. (ED)

EDC have just advised me of a second transmission on 17565khz 0630-0700utc on Monday, Tuesday and Thursdays but this one via Dhabayya. This transmission is audible here but with heavy co-channel interference from CNR, who incidently ID in English each half hour (ED)

INDIA:

A.I.R.

According to information from All India Radio HQ, they are currently interested in receiving Reception Reports on their External Services targetted towards UK & Western Europe, SE Asia, China and Middle East.

The reports may be sent to: spectrum-manager@air.org.in

The Postal Address is: Director (Spectrum Management & Synergy),

All India Radio, Room No.204, Akashvani Bhawan, New Delhi-110001 (India).

QSL Cards will be issued for all correct reception reports.

The External Service schedule is available at: <http://allindiaradio.org/schedule/fqsch.html> and also in www.geocities.com/bcdxnet

So, those dxers who had difficulties in getting QSL cards from AIR External Services in the past may make use of this opportunity now. (HCDX)

ALL INDIA RADIO READY TO LAUNCH 24-HOUR RADIO NEWS CHANNEL

National public service broadcaster All India Radio (AIR) is awaiting government permission to launch a 24-hour bilingual English/Hindi news and current affairs channel on 2 April, the New Delhi newspaper The Pioneer reported on 24 February. Initially the service will only be available on shortwave, attaining nationwide coverage by using three powerful transmitters formerly used for AIR's external service broadcasts. Although there are concerns at All India Radio about the audio quality of daytime shortwave transmissions, the Ministry of Information and Broadcasting has the view that using shortwave is the most cost-effective method of transmission in the current political circumstances (where government spending on pre-election projects is under public scrutiny). (DXLD)

IRELAND:

OZONE TO TEST ON 9212 KHZ.

I have heard on the grapevine that Radio Ozone is to be testing 9212 kHz in the near future. And that Ozone will be back on Sundays in March on and around 7.4 MHz or so. The 9212 tests will apparently be and are most likely to be nighttime tests. So it may be worth keeping an ear out here to see what can be heard. Mr Ozone, it has been said has tested 9 MHz at an ungiven time before midnight recently and the results were very good (Steven Overall via DXLD)



PAPUA NEW GUINEA:

Wantok Radio Light is the name of the new tropical band SW station scheduled to start in about May 2004. The broadcasts will mainly be a relay of the existing FM station of the same name in Port Moresby. During January, HCJB engineering staff helped relocate the studios of the station to a high rise office tower in downtown Port Moresby and brought the new FM transmitter site on air. Life Radio Ministries (PO Box 2020, Griffin, GA 30224) operate Wantok Radio Light in partnership with others including HCJB and have licences to operate 30 FM repeaters across Papua New Guinea. The new SW facilities are supposed to be built during April/May 2004 and discussions are still ongoing with the bureaucracy about the SW frequency and technical facilities. (David Ricquish)

SIERRA LEONE:

Radio UNAMSIL is the voice of the United Nations Mission in Sierra Leone. It is a Unit of the Public Information Section of the UN. The station is known as the Voice of Peace and broadcasts from Freetown, the country's capital city, on 103 FM and on shortwave using a nominal frequency 6,140 kHz although most reports have had them somewhat lower than that.

Radio UNAMSIL utilizes a 1,000-watt Harris made transmitter, which has given it a sporadic worldwide reach. Its goal is to promote awareness, understanding, and tolerance among the peoples of Sierra Leone and help the people understand the implementation of the Lomé Peace Agreement.

The station appears that it will be a good verifier of listener reception reports, however, hearing them could be a serious hurdle these days. I have not seen any recent logs for this station. A postal report may take some time but will be answered with a full data letter from Sheila Dallas, Station Manager and Executive Producer of Radio UNAMSIL. Written reception reports with return postage can be sent to: Radio UNAMSIL, Mammy Yoko, P. O. Box 5, Freetown, Sierra Leone . (DXLD)

YEMEN:

Republic Of Yemen Radio. 9780.

Has Interval signal from 1758-1800, then starting 1 hour EE broadcast. Sign-on at 1800 with national anthem and ID. Various news, music and Yemeni current event programmes. EE transmission ending at 1900 with short news segment and ID, then into AA. (HCDX log)

ZIMBABWE:

The ZBC has reactivated the use of 3306, an old frequency of theirs but not one that I think they have used for several (perhaps many) years. It is being used in the early morning and during the evening. During the daytime they are still on 6045. These SW frequencies are relaying the "Radio Zimbabwe" (formerly Radio 2) service in Shona and Ndebele. Regards, (Chris Greenway, (currently in Lusaka, Zambia), via DXLD)

Latest reports seem to indicate that 3306 is only in use on odd occasions (ED)

RECENT CHANGES. Monitored by OBSERVER-BUL

GUAM: Freq change for AWR in Telugu and Kannada via SDA 100 kW / 285 deg:
1500-1600 NF 15265, ex 17515

FRANCE: Summer A-04 freqs for Radio Taiwan International via RFI relay:
1800-1900 Chinese on 11615 ISS 500 kW / 080 deg to ME >>>>> new txion
2100-2200 French on 9365 ISS 250 kW / 190 deg to NoWeAf
2200-2300 Chinese on 3965 ISS 250 kW / 345 deg to WeEu

SOUTH AFRICA: Freq & time changes for R.Veritas via MEY 100 kW / non-dir to SoAf 1000-1100 NF 6100, ex 1000-1400 on 7240

TAIWAN: WYFR in Russian noted on Feb.29 and March 1:
1500-1700 on 9956.0, instead of 9955.0

TAIWAN: Radio Taiwan Int in German/Mandarin/French noted on Feb.29 and March 1:
1800-2100 on 9956.0, instead of 9955.0

U.K.: Summer A-04 freqs for Sudan Radio Sce Mon-Fri:

0300-0500 on 11665 WOF 300 kW / 128 deg
1500-1700 on 17630 WOF 300 kW / 128 deg
1700-1900 on 17660 WOF 300 kW / 128 deg, additional txion!

U.K.: Summer A-04 freqs for Voice of Eritrean People in Tigrina:

1730-1800 Sun on 17860 SKN 300 kW / 125 deg to WeEu
1800-1830 Sun on 7125 SKN 300 kW / 110 deg to EaAf

LATIN CORNER: GUATEMALA:

4052, R. Verdad.

According to station managers' daughter (who is a secretary at the station), they have recently increased their power to 800 watts (Dave Valko, via DXLD)

NICARAGUA:

According to a personal letter dated January 19, 2004, from Sr. Evaristo Mercado P., Director Radio Miskut, their shortwave transmitter [5770] has been out of service since August 2003, damaged by fluctuating power supply. Dr. Freeman will visit the station in March in order to bring the transmitter back to US for repair. He will also help them to increase power of a small FM transmitter (Tetsuya Hirahara, via DXLD)

BOLIVIA:

New broadcaster. Radio Televisi n Chicha new on 4763.3 kHz
Radio & Television Chicha, Tocla, Nor-Chichas province, Potosi Department, Bolivia.
4763,3 kHz.

Heard 22 February 2004. In Spanish. Second day on air!

They like reception reports and promise a souvenir for all listeners who send reports.

I head this new station with my dear friend and DXer Marcelo Cornachioni, in a DX Camp in Chascomus, 124 kms. to south of Buenos Aires city. Programming was music (bolivian folk).
IDs as Radio y Television Chicha, 4760 banda 60 metros. Etc.

Schedule is> 1030-1700 and 2100-2400. (HCDX) *1030 opening could well be a possibility here. (ED)*

FEATURED FREQUENCY this month is 9770KHZ.

How many of these are you able to hear and identify?

Time.	Station.	Country.	Days.	Language.	Power.	Site .
0300-0400	Channel Africa	South Africa	1234567	English	500	Meyerton
0400-0500	The Overcomer	Ministry Germany	1234567	Unknown	100	Juelich
0730-0745	Deutsche Welle	Germany	1234567	MACEDONIAN	500	Wertachtal
0900-0915	Deutsche Welle	Germany	1234567	CROATIAN	500	Wertachtal
0900-1000	Voice of Greece	Greece	1234567	Unknown	250	Delano, CA
1000-1100	Deutsche Welle	Germany	1234567	DIVERSE	500	Wertachtal
1200-1300	Deutsche Welle	Germany	1234567	DIVERSE	500	Wertachtal
1230-1600	China Radio International	China	1234567	Unknown	100	Xian
1300-1330	Deutsche Welle	Germany	1234567	BOSNIAN	500	Wertachtal
1300-1330	Islamic Republic of Iran Broadcasting	Iran (Islamic Rep. of)	1234567	JAPAN	500	Sirjan
1430-1500	Deutsche Welle	Germany	1234567	SERBIAN	500	Wertachtal
1530-1600	VOA - Voice of America	Thailand	1234567	Unknown	250	Udorn
1600-1800	China Radio International	China	1234567	Unknown	500	Urumqi
1600-1800	VOA - Voice of America	Germany	1234567	Unknown	100	Biblis
1900-2000	VOA - Voice of America	Germany	1234567	Unknown	100	Lampertheim
2100-2300	Radio Canada International	Canada	1234567	Unknown	250	Sackville
2200-2359	VOA - Voice of America	Thailand	1234567	Unknown	250	Udorn

Once again we have a small mailbag but as Winter approaches I'm hopeful it will improve especially after daylight saving ends

First up this month is **Jerry Berg Lexington MA USA** who has veries from CFVP 6030, CIS 7560, Latvia 9290, Radio Ezra Lithuania 7560, Xerta 4810, Radio Cupido21895, Radio Reveil and Paroles de via 11840

Now for **Ian Cattermole Blenheim** Who has Bible Voice 6015 Sudan Radio Service 9625, KSDA 11685, 12010, RDP 17710, FEBA via Meyerton, RAI 5985, 9515, Voice of Turkey 15480, Channel Africa 15265, Overcomer via DTK 15260, 17735, 13820, RVI 9945, Radio Australia 13630, Radio Veritas 15520, 15215, Mezopotamian Radio 7560, Radio Alislah 15705, Al-Mustaqbal via Dhabayya 17565. Thanks Ian

Ron Killick Christchurch Radio Vlaanderen 5965, DW Alma Ata 21650, Wertachtal 15205, 13590, Al Dhabayya 15410, RNW Petropavolskb Komchatsky 13820, Radio Japan 11690, KSDA 12010, AWR Al Dhabayya 15135, Julich 9840, RDP 13770, Voice International 17820, China 13610, Saglee Bilisumma Oromoo Julich 9820, Overcomer 9770.

Stu Forsyth Darfield With Radio Australia 15415, 17775, 17795, 21725, DW 11785, 9585, 11805, 12045, 15410, Radio Ndeke Luka 11785.

Ray Crawford Forestdale Australia with Ndeke Luka 11785, DW 21650, Prague 11600, WHRI 7315, Tibet 4920, Portugal 21655, 21830, 13700, 11980, 11655, 9815, 11785,.

Andrew Sunde Ohai With Berlin 6005, Russia via Armenia 21790, 11510.

Laurie Boyer Invercargill Has Voice International 13685, Overcomer 5070, IRRS 12065, 9390, SAWA 9650 11905, 7280, 11825, 7195, 9530,

Best of Month over 9 mhz Channel Africa 15265 Ian Cattermole

Best of Month under 9 mhz Radio Deutschelander 6005 Andrew Sunde

Tiger (continued from Front Page/Page 2)

The Tasman International Geospace Environment Radar (Radar) is a dual HF radar system with overlapping foot-prints designed to map ionospheric motions by detecting ionospheric scatter. The first radar was set up on Bruny Island, Tasmania at the end of 1999 and development of the second radar to be placed near Invercargill, NZ, has begun. TIGER is part of the Super Dual Auroral Radar Network (SuperDARN) which currently consists of 15 radars deployed in the northern and southern hemispheres.

It is hoped the radar could be installed between April and June with the aim to have it operational by spring.

TIGER RADAR SPECIFICATIONS	
Frequency Band:	8 - 20 MHz
Antenna Arrays:	Tx/Rx Array: 16 horizontally polarised log-periodics 2nd Rx Array: 4 horizontally polarised log-periodics
Beam Widths:	Horizontal: 4° at 10 MHz, 3° at 14 MHz, 2° at 18 MHz Vertical: 50°
Lobe Levels:	< -14 dB for both back and side lobes
Transmitters:	16 x 600 W (one per antenna in Tx/Rx array)
Total Peak Power:	9.6 kW
Mean Power:	200 W
Radiated Power:	12.5 W in main beam direction
Tx signals:	Pulse pattern repetition rate: 50 or 100 ms Pulse width: 300 µs Bandwidth: 10 kHz at -20 dB Duty cycle: 2.1% Carrier frequency stability better than 10 ⁻⁶ per day





Some news items — St Helena Island, in mid Atlantic, some hundreds of miles West of Africa is bidding to have an airfield on its 410 sq km. Napoleon Bonoparte was imprisoned here by the British. Imagine an airlink with Namibia.

A helicopter from HMS Endurance, the British Antarctic patrol ship crashed in Antarctica in February — none of the crew of five suffered injuries. The crash happened on the West coast of the Weddell Sea.

A Swiss ATC controller was stabbed to death in April by a 55 year old man. The man's family died in an air to air accident which had been, at the time, controlled by the sole Swiss controller on duty.

- 4493 2022 ZLGO Blenheim Base to Stephens Island both calling ZLGO14 wanting report on the level of some river PC
- 4493 1940 Rotoiti Base giving WX for remote station and discussing heavy rain falls state of waterfalls and tracks PC
- 4523 1843 Explorer to Manapouri Base with radio check PC
- 4619 1915 DOC LT2 Glenorchy Base with alpine forecasts remote hut stations reporting camper numbers PC
- 4619 1933 Stewart Island Base to Adams, Snares and vessel Te Ama anchored off Adams PC
- 4622 1900 ZLBN Zero Base to ZLBN 16 and 26 remote stations Tararua ranges possibly PC
- 4622 2015 DOC Whanganui Base to Te Eke hut re supplies to go on boat to come up river PC
- 5205 0215 Station Zero Alpha to 63 doing radio checks then QSY to channel 102 local NZ utility PC
- 5407 2130 ZKST Christchurch Civil Defence to S Island Checklist of stations PC
- 5547 0908 San Francisco/Reach 930 EM
- 5574 1018 San Francisco/United Parcel Service 6900 DUFFY 1017 Temp -40 Wind 270/33 MJ
- 5592 2329 Qantas 4191 to Queenstown information requesting Wx PC
- 5598 0910 Santa Maria/Reach 688 EM
- 5598 0821 Reach 121/Santa Maria EM
- 5598 0825 New York/Speedbird 812 maintaining SC watch EM
- 5598 0 833 Flight calling Santa Maria call Shanwick on 3016 EM
- 5598 0839 New York/El Al 027 Request climb FL 380 MJ
- 5598 0818 Santa Maria/Reach 342 FL 360 40N 020W 0851 43N 030W next Temp — 58 Wind 252/16 MJ
- 5598 0645 Shanwick/Speedbird 34 44N 50W 0644 FL 370 46N 40W 0735 48N 30W next MJ
- 5598 0851 Shanwick/Speedbird 34 48N 20W 0845 FL 380 MJ
- 5598 0909 Santa Maria/Shanwick 32N 050W 0909 FL 360 36N 060W 1020 Temp —55 MJ

5600 0922 Unknown NZ fishermen with colourful language but serious content on extra curricular activities !!!! MJ
 5643 0841 Auckland/Pionair 6036 EM
 5643 1008 San Francisco/Air Canada 45 Relaying from Reach 6024 GLORY 0946 FL 260 TAAVR 1034 JMROY next Request Reach 6024 call on 11384 primary 6532 secondary MJ
 5643 0910 San Francisco/NZ 6 CPDLC equipped tail number ZK-NBT SC JQEM MJ
 5643 0923 Tahiti/NZ 1 SC DPMS Continue on CPDLC MJ
 5643 0812 Auckland/Aerolineas 1183 55.58S 145W 0809 FL 360 in the block 330-370 56.31S 142W 0822 57.50S 131W next MJ
 5643 0841 Auckland/Bluebird 8 RUNOD 0837 FL 370 LALAP 0935 Christchurch 1000 Temp —45 Wind 222/74 MJ
 5643 0958 Brisbane/Emirates 431 SC check on PQFJ SC OK MJ
 5643 0835 Brisbane/Freedom 914 LOKIT 0828 RUNOD 0936 LALAP next MJ
 5680 0100 Wellington Special Ops Base working 3 exercise teams scouting helicopter landing sites along South Karori coast PC
 5680 2105 ZL2KS testing with Marlborough 1 station QSY to national system VHF ? PC
 6628 0813 Santa Maria/Cubana 28N 20W 0813 FL 330 Gran Canaria next MJ
 6628 0936 Iberia 6427/Santa Maria Cleared to climb to FL 320 to be level by 30W MJ
 6628 0937 Santa Maria/Iberia 6620 FL 340 36N 20W 1035 Changing to 8825 MJ
 6628 0630 Santa Maria/Springbok 203 Maintaining FL 360 MJ
 6628 0646 Santa Maria/Springbok 203 25N 35W 0703 28N 40W next MJ
 6628 0734 Santa Maria/Springbok 203 28N 40W 0822 30N 44W next MJ
 6637 0003 Qantas Ops to Qantas 47 re needing a standby plans if fault not immediately fixable on landing PC
 8825 0939 Santa Maria/Iberia 6620 SC OK MJ
 8825 0940 Santa Maria/Reach 171 Maintaining FL 340 MJ
 8825 0941 Santa Maria/El Al 1103 SC GMSD is OK MJ
 8867 0848 Auckland/Bluebird 8 FL 370 Est LALAC 0945 RW
 8867 1032 Auckland/Aloha 322 On course MJ
 8867 2018 Auckland/NZ 93 DUGAN 2016 FL 320 MINET 2055 LEKAX next MJ
 8867 1028 Auckland/Aerolineas 1183 56.31S 142W 1028 FL 350 in the block FL 330-350 57.50S 131W 1110 Request block FL 350-410 MJ
 8867 2151 Auckland/Skier 92 FL 180 negative SC RW
 8867 0632 Auckland/Kiwi 985 LEKAK 0629 MINET 0605 Request FL 390 OK Report reaching RW
 8867 0654 Auckland/Kiwi 985 FL 390 RW
 8867 0705 Auckland/Reach 5E1 FL 310 RW
 8867 0709 Reach 5E1/Auckland Climb to and maintain FL 350 at 0715 report reaching RW
 8867 2226 Auckland/Aussie 602 (HS 748) posn KALAG 2223 maintaining FL 180 Second posn NISSET 2307 next SAKLO 2356 NJ
 8867 2243 Auckland/Aussie 602 request traffic for FL 200 NJ
 8867 2352 Auckland/Aussie 601 (HS 748) KALAG 2253 FL 180 NISSET 2326 NJ
 8867 2308 Auckland/Aussie 602 Over NISSET at 2307 maintaining FL 200 next SAKLO at 2357 following S 28.60.0 E173.25.0 NJ

8867	2319	Auckland/Aussie 601 Request traffic climb 200 NJ
8867	2112	Auckland/Air Pacific 410 KALAG 2111 LATIK 2135 SASRO next MJ
8974	2336	Air Force Sydney to Aussie 603 with departure report PC
8974	2344	Air Force Sydney/Reach 71 Have you passed message to Det One yet ? RW
8974	2346	Air Force Sydney/Reach 5E1 Reading you very weak Please pass to Det One at Richmond our ETA of 0125Z Wilco RW
8974	0746	Air Force Auckland/Iroquois 16 radio check Nothing heard RW
8974	0134	Air Force Auckland/Iroquois 16 Ops normal Will call 0205 RW
8974	0013	Orion 4023 re radio check with Air Force Auckland PC
8992	2130	Anderson/Reach 3508 Request landing Wx for your location at 0930 Z RW
8992	0611	All stations/Malone EAM simulcast ,13200 and 11175 REW
11300	0517	Khartoum/Lufthansa 8296 ORNAT 0516 FL 370 SC ACHP MJ
12290	2050	Tahitian Princess ZDDY8 near Rarotonga to ZLM Taupo HF radio equipment check PC
13261	0640	Brisbane/Aussie 603 Back on track RW
17904	0539	Brisbane/Kiwi 985 Request deviation 20 miles right of track Clear to move Report on reaching RW
33445	0800	ZLJG broadcasting Wx report Various stations checking in discussion about hunter not checking in for two nights RW

Contributors

PC Peter Chambers, Napier, Drake R8A with 15m horizontal wire
MJ Mike Jackson, Feilding, Lowe 235 with 5.6/8.8 dipole
NJ Noel Jones, Auckland, NRD 545D, DSP 599zx, T2FD, Kenwood 5000
EM Evan Murray, Auckland, Kenwood 5000 with T2FD
RH Rohan Wahrlich, Te Kauwhata, Icom R75, Kenwood 5000, T2FD, Alpha Delta Sloper



tv.fm@radiodx.com

Compiled by Adam Claydon, Otorohanga



Maori Television Launches 28 March 2004

Maori Television will officially launch on Sunday 28 March 2004. The day will be marked with a karakia and powhiri, both of which will be broadcast live. We'll also feature a range of programmes made exclusively for Maori Television including a documentary on the history of Maori Television and an introduction to its present staff. Our regular schedule of programmes begins on Monday 29 March 2004.

Viewers can tune-in to Maori Television in four ways:

Via the UHF frequency - In many cases if you receive Prime TV now you should be able to tune-in to Maori Television. To receive Maori Television via the UHF frequency viewers need to have a UHF aerial and be within the coverage area. Viewers can tune-in to Maori Television via the UHF frequency from 1 March 2004. Our coverage maps are published on our website and our tune-in helpline, 0800 MA TATOU (0800 62 82868) is also active.

Via Satellite - If viewers are not within our UHF coverage area, they can access Maori Television via Satellite by purchasing a Satellite Dish and Receiver from their local Television Aerial Installation service.

As a SKY Digital subscriber - SKY Digital subscribers will find Maori Television on Channel 33 of their SKY remotes. They can tune-in to Channel 33 now to catch highlights of programmes soon to be shown on Maori Television.

As a SKY UHF subscriber - SKY UHF subscribers will find Maori Television on button 6 of their SKY remotes.

For More Information check our website www.maoritelevision.com or for guidance on how to tune-in call 0800 MA TATOU (0800 62 82868) (*Maori Television e-newsletter*)

Maori TV have started showing promos on Ch#46 in Christchurch in preparation for the on air date at the end of the month (*Chris Wright*)

Christchurch Chinese Broadcasting

broadcasts on 88.5 and 106.5 FM. Address: Level 2, 127 Armagh Street, Christchurch.
T/F: 03 961 2885. Mobile: 021 045 5693. Email: ccb885@hotmail.com (*David Ricquish*)



Auckland FM update

Over the past week Classic Hits FM 97.4 has been relayed on 105.4. Not sure whether this is a precursor to yet another commercial FMer in Auckland.

On the guardbands there's still plenty of variety around.

Noted Hope City FM back with its gospel music format, this time on 106.7. Strong signal between Blockhouse Bay and Royal Oak and I think transmitter is in Mount Roskill area.

Red-FM 95.4 is also being heard again running parallel on the guardband frequency of 106.7.

The hip-hop station on 107.5 that dominates the central city has yet to give an identification announcement. *(Bryan Clark)*

Guardbanders' Gear Seized

Radio Spectrum Management issued 11 infringement notices to guardband users in the Auckland region recently, policing new rules under the General Radio User Licence.

The rules allow for just two transmitters in a 25km area now, aiming to prevent low-power broadcasters from 'hogging' use of the band or achieving full-power-like coverage of an area through the use of multiple repeaters.

After the issuing of the notices, six transmitters ceased operating immediately, says a report in the latest RSM newsletter *Wavelength*. Second notices were served on the owners of properties on which the other five transmitters were operating. And finally search warrants were issued for two properties, from which transmission equipment was seized.

According to the report, "this type of compliance monitoring and intervention by RSM is a good example of the strong stance we are now taking against illegally operating broadcasters." *(Median Strip March 10)*

Posted submissions

I also received some submissions via post this month. These will be in the next DX Times issues — Adam.



Magic FM. Magazine ad c.1994
Ragusa Media Collection



KCC FM. Magazine ad. c1994
Ragusa Media Collection



From the look of the mail the New Year's got off to a good start! Must be all the groundwater exciting those earth wires! Try in vain as many of us did for Waihi 1107 (35 watts) it was a great gesture from Peter Anderson, and thanks to David Ricquish for setting the special up. David reports that the transmission on 29 Feb went out well !

Into the **MAILBAG**:

SUTTON BURTENSHAW, Hamilton reports logs as 2XS 828 and Access Triple Nine 999. Veries have arrived from -R Sport 1062 & 1350, 2XS 828, 1ZO 1413, Lakes 1548, and Access Triple Nine 999 all ppc. E-mail verie from KQXX 1700.

KQXX; At a suggestion from David R, I sent an e-mail report to the new owners via Danny Fletcher and my reply came back from JohnMunoz@clearchannel.com who also said a QSL card and station sticker was available for correct reports to KQXX-AM, 901 E. Pike Blvd, Weslaco, TX 78596 USA. . All the best with your building !

RAY CRAWFORD, Forestdale Queensland has recently gained his Ham licence and switched to talking and has worked 42 countries in 7 weeks. QSL's however in from WWRU 1660 and KQXX 1700. . Enjoy your holiday Ray !

DAVID RICQUISH, Wellington reports that the Waihi 1107 test went well on 29/2, closing down at 0718. Also ran all day on 28/2. Those on greyline/mwoz lists would also have had details of the repeat on March 7, this time from 0600 onwards to try and use skywave to get the audio out. Transmitter was just 35 watts into a temporary aerial and just hearing the carrier alone was good DX.

Logs: Radio Puketapu 954, Waihi 1107 DX test 29/2, Classic Hits 1215, Goldrush 1440, Radio Samoa 1593, 2CR 549, 4JK 567, 3WV 594, 4CH 603, 2NU 648, 2BY 657, 2CN 666, 2CO 675, 2BL 702, 2NR 738, 4QS 747, 2GL 819, 3GI 828, 4RK 837, 4CC 927, 2EA 1107, 4FC 1161. Follow ups out to 5CK 639, 3CR 855, 2NB 999, 5MV 1062, 3WM 1089, 3SH 1332, Rete Italia 3RF 1593, 2KM 1620, Rete Italia 4RF 1629, 2AP 747, La Voz de Cuba CMW 590/CMKV 600, KSTP 1500.

QSLs: Radio Ngati Porou 585, Radio Puketapu 954, Waihi 1107 DX test (from station operator), Radio Waitomo 1ZW 1170 (letter from Adam Claydon), 2CR 549, 4JK 567, 3WV 594, 4CH 603, 2NU 648, 2BY 657, 2CN 666, 2CO 675, 2BL 702, 2NR 738, 4QS 747, 2GL 819, 3GI 828, 4RK 837, 2EA 1107, KSTP 1500 (for 1996 report and state #32). All via email unless stated.

QSL total is now 26% of current Australian BCB and 57% of on-air NZ, which means there's a lot more to hear and QSL yet. Keep at it ! Wanna another Superadio II ?

PAUL ORMANDY, Oamaru has also put down his mike for a moment to open a QSL A QSL, yes, a QSL... and a beaut... Radio Baha'i, Caracollo, Bolivia 1000kHz 10kW. Via e-mail from the director of the station at the time of my reception. He remembers replying to my original report (or one of the follow-ups) but alas, it never made it back to Oamaru. Bolivian

No.2 after 30 years!! Just one log, WRDW 1630. OK back to the CQ's

DAVID NORRIE, Auckland reports "Got a lovely QSL from KBIV confirming report and telling me they run 850W at the time I was listening.V/signer was jim lotspeich jlotspeich@entravision.com He sent me a picture of the transmitter to boot and asked whether I was using a matching device."

GORDON MATHESON, Paeroa has logs as Radio Sport Whangarei 729 and Coast 1530AM Hawkes Bay. QSL in from Radio Rhema Whangarei 621.

DOWN THE DIAL

560	USA	0759	KSFO San Francisco CA with promo for the "Bay Area's Talk Leader" then ABC News 6/2. BCM
580	USA	0806	KMJ Fresno CA with promo 6/2 for "Coast to Coast AM with George Norrie on Newstalk 5-80, KMJ". BCM
640	USA	0752	KFI Los Angeles CA with "go to KFI.com" on local talk format over Mexican format station, 6/2. BCM
670	USA	0931	KLTT, Denver, CO. Religious ad for the "most powerful voice in Denver" Then Fox Sports DN
670	USA?	0808	UNID with religious talk format "People to People" hosted by Bob Christopher, dominating throughout the evenings of 6/2 and 7/2. BCM
690	USA	0925	KORL HI. Ad for airtime for your own program. Phone 2 84 3088. 7/2 DN
720	USA	0748	WGN Chicago IL with local advertising 6/2 over another station on talk format. BCM
740	USA	0746	KRTH Houston TX on C-to-C AM mixed another station carrying Radio Disney type format 6/2 Who?. BCM
780	USA	0744	WBBM Chicago IL very good with weather report on "Chicago's Weather Station Newsradio 7-80 WBBM", very good level, 6/2. BCM
810	USA	0741	WGY Albany NY presumed the 'Coast to Coast AM' trouncing 4YA 7/4. C-to-C Network website shows no other station on this freq carrying prgm. Over 25 yrs since I last heard WGY. BCM
850	USA	0733	KOA Denver CO with "Interstate Trucking Radio Network" and comprehensive highway weather forecast 0733 6/2. BCM
870	USA	0733	WWL New Orleans LA with comprehensive trucking weather forecast 6/2, advts for heavy duty motor oil and Firestone Tyres.BCM
890	USA	0725	WLS Chicago IL with 'Coast to Coast AM' over co-channel Spanish 6/2. Promo for 'Rush Limbaugh, 11am weekday mornings on Newstalk 8-90 WLS' at 0730, very good. BCM
1030	USA	0717	WBZ Boston MA with own talk prgm, ident "WBZ Newsradio 10-30" & advts 6/2. Over or mixed co-channel SS.
1060	Mexico	0817	XEEP Radio Educacion Mexico DF with light orchestrals // 6185 SW over/mixed US talk show 6/2 BCM
1100	USA	0731	WTAM Cleveland OH on top with news and ident, 7/2. Back to 'Coast to Coast AM' talkshow at 0736, over co-channel Spanish.BCM

1110	USA	0730	KFAB Omaha NE with ident as "Newsradio 11-10 KFAB" in break from C-to-C AM, 7/2. Mixing with Latin. BCM
1130	USA	0803	KWKH Shreveport LA C&W and ID DN
1130	CAN	0904	CKWX Vancouver BC. Ad for Porto Italian Restaurant, then sports news 6/2 DN
1170	USA	0650	KFAQ Tulsa OK dominant 6/2 with 'Coast to Coast AM' talkshow. Commercials from 0655, full ident "This is Tulsa's Talk Radio 11-70, KFAQ News" 0700. No sign of Waitomo. BCMPO
1220	Mexico	0845	XEB Mexico City DF dominating in SS 7/2 with "La Grande" ident.BCM
1300	UNID	0743	"Musical radio" lding as Radio Trece 7/2 DN
1320	UNID	0622	UNID in clear with newstalk format in SS 7/2. Suspect KXYZ. BCM
1350	USA	0659	WSMB New Orleans LA.ID on hour" Talk Radio 13-50 WSMB New Orleans". PO
1360	USA	0658	WMOB Mobile AL. "I just want to remind you that you're listening to Mobile's Christian Voice WMOB" then gospel music to past 0900. PO
1450	MEX	0624	XECU La Rancherita, Los Mochis. Gd signal with ID's and ranchera music 14/2 PO
1470	UNID	0557	UNID in Spanish consistently early fade in, and dominates channel. Noted 6/2 & 7/2. BCM
1500	Hawaii	0719	KUMU Honolulu HI. ID "This is KUMU, AM 1500" Oldies 14/2 PO
1500	USA	0601	KSTP Minneapolis St Paul MN on top with ABC News 6/2, local adverts & "Thanks for Listening to Coast to Coast AM on AM 1500 KSTP" at 0606. BCM
1510	USA	0716	KGA Spokane WA Talk Firestone ad. BW
1510	USA	0634	WLAC Nashville TN with ident as "Newsradio 15-10, WLAC", then promo for "Coast to Coast AM" with host George Norrie. 6/2. Over/mixed SS. BCM
1530	USA?	0610	KGBT Harlingen TX suspected the early fade in with ranchera music mixed 2YP New Plymouth 6/2. BCM
1530	USA	0630	KFBK Sacramento CA with "KFBK Weather Forecast" mixed 2YP and presumed KGBT, 6/2. BCM
1540	Bahamas	0611	ZNS1 Radio Bahamas Nassau. VG at times with Valentine's Day promotion. Many ID's; and suggestions for romantic celebration. 14/2 PO
1580	USA	0601	KMIK Tempe AZ on top with Radio Disney but KBLA Radio Unica in SS dominant 4 mins later, 7/2. BCM
1630	USA	0654	KKWY Fox Farm WY. "Snow Bird" Ann Murray through NZ Beacon DN
1630	USA	0727	WRDW Augusta GA dominating the channel with the John & Jeff Show. Ads and PSA's with local content from 27 past the hour to 31. Thanks to Steven Greenyer for spotting this one. 14/2 PO
1640	USA	0735	KDZR Lake Oswego R. Disney fair BW
1640	USA	0726	KBJA Sandy UT presume the one here in SS. Sounded like Radio Chica rather than Radio Unica, so 'chica' could have been used as an adjective ! 14/2 PO
1640	USA	0759	KDIA Vallejo CA fair on talk format, station ident 6/2. BCM
1650	USA	0704	KBIV El Paso TX. ID as "Classic Hit Country here on 1650 AM" DN

1650	USA	0657	KWHN Fort Smith AZ. "I'm Darren..at newstalk 1650 KWHN 7/2 DN
1670	USA	0703	KNRO Redding w/ident as ESPN Radio 16-70 thru dominant KHPY in SS 6/2. BCM
1680	USA	0735	KRJO Monroe LA, briefly on top taking requests to 1-800-72-REJOICE. Soul music 14/2 PO
1690	USA	0614	UNID language here with steady signal 0614 6/2, talk format not Spanish or Portuguese, more East or Southern European. Does KFSG carry Euro languages? BCM
1690	USA	0656	KDDZ Arvada CO with "Radio Disney" ident in mix of signals, 7/2. BCM
1690	USA	0600	WRLO (??) WRLL Berwyn/Chicago Oldies 14/2 PO and DN
1700	USA	0624	KTBK Sherman TX with Dallas Cowboys sports promo 6/2. KQXX usually dominates. BCM
1700	USA	0730	KQXX usually dominant Real Oldies DN & BW

With muchas gracias to David Norrie, at Matarangi, Bryan Clark at Mangawhai and Paul Ormandy at Wainakarua

BROADCAST NEWS

HAWAIIAN UPDATE

690 KORL	Honolulu is new call with JJ, contemporary jazz and multi-cultural time brokered programs previously broadcast over KJPN 1370 as 'K-Japan'. Ex-Radio Disney format. No connection with previous KORL 650.
880 KAIM	Honolulu requests move here ex 870, with 10kW D/N share tower with 960/1600
960 KHCM	Waipahu requests move here ex 940 with 10kW D/N share tower with 880/1600
1130 KRUD	Honolulu holds CP for 10/5kW, now requests power decrease to 750w D/N to reduce possible interference to nearby FCC AM monitoring station.
1170 KJPN	Honolulu is new call, ex KENT (see 1180 also) Currently silent..
1180 KENT	Honolulu requests move here ex 1170 with 6kW/4.490kW. Would move here as new call KJPN.
1230 KZOO	Honolulu requests move here ex 1210 with 1kW D/N
1370 KENT	Pearl City is new call, ex KJPN. Was KMDR before switch to KJPN. Currently silent.

(NRC's DX News) David Ricquish.

Maldives

Voice of the Maldives from Male is now reported to broadcast 24 hours. It uses 10kW on 1449 AM and programs are mainly in the local Dhivehi language apart from some English in the early afternoon local time. With these extended hours, VOM now becomes a DX possibility in Australia (especially WA) and NZ where the best time for reception is 1400-1800 UTC. The

Maldives are a string of islands southwest of India and Sri Lanka.
(Jose Jacobs, Southern Asia DX Report Feb.2004 via AWR Wavescan 478 and David Ricquish)

Kwajalein

AFN Kwajalein is the new name for the former Central Pacific Network, which in turn replaced the last remaining active WWII Jungle Network callsign WXLG some years ago. As 1220, WXLG was frequently heard in NZ during the 1950's and even conducted a special DX program for their Kiwi listeners and were swamped with reports.

These days, AFN Kwajalein operates on 1224 with 1kW, a channel covered in both Australia and NZ, but a long shot possibility for those able to null the locals involved. The program format is easy to recognize, being a 24 hour relay of *National Public Radio* sent via satellite from Huntsville, AL. Local ID's are inserted during program breaks, but the only local programs on the atoll now come over the 101.1 FM outlet during mornings and afternoon. Rest of the time, the 3 FM relays all carry AFRTS music channels from Huntsville. Well worth having a crack at this one around 1100-1500 UTC, even earlier in winter. *David Ricquish.*

AUSTRALIA

1215 Bowral, NSW **on-air** 24/2 as Southern Country with C/W music format. Short term only to fulfill licence requirements. Using 1kW xmitter presumably powered down to .350w allowed for this location. Operated by Cameron Broadcasters, Locked Bag 3010, Nowra, NSW 2541. T: 02 4423 0055. Email: jsummerton@powerfm.com.au

(Credit: Dave Onley via greylinedx)

1692 UnID heard 23/2 with uninterrupted classical music. Presumed either Emu Plains (Penrith) or Nerang (Gold Coast).

1701 UnID carrier heard 23/2. Presumed either Silverwater (Sydney) or Richmond (Melbourne).

(Credit: Dave Onley via greylinedx and David Ricquish)

1611-1701

Holders of licences in the 1611-1701 band must *use it or lose it* within the next six months hence expect growing number of tests to comply with the new legislation, as well as more roll-outs from Radio 2 (nearly 20 still to come on air) and relays of NTC Radio. Sales activity and rationalization now gearing up also, with 6AY 1611 having 3 AM's on the market, Margaret River 1611 (WA) still on the market after 18 months, and the Magic 87.8 network (Perth x 4 FM's plus 2 AM's), plus Gawler 1674 (SA) all currently for sale.

(Credit: Dave Onley via greylinedx and David Ricquish)

The 1593 SAGA - Radio station 1593 in Melbourne continues to frustrate the narrowcasters with its poor transmission quality and overmodulation on 1593 AM. Rete Italia in Melbourne causes interference to everything +/- 27 away, in the northern suburbs of Melbourne, with casualties including 3XX (1611), Radio 2 (1629) and more. There have been formal complaints registered with the ACA however all seems to get worse. The 1593 technical transmission standard is so bad that it is almost impossible to hear it on its own frequency. A spokesman for Rete was not willing to comment and believed the issue was an over reaction.

More to follow soon. (David Onley, MWOZ)

If you haven't had a nice drive past Cambellfield during January, you don't know what you've been missing out on. And all you had to do was tune your radio to either 1593 or higher. Not only was the audio on Rete Italia not sounding as clear as it should, their transmitter was splattering their signal over to 1611, 1620 and even up to 1629. But thankfully, that has been changed, with the ACA stepping in, at long last. This means, for those in the Northern Suburbs, there will be no more splattering from Rete Italia (1593) This means, you can now listen to 1611 (Double X), 1620 (Hillside Radio), and 1629 (Radio 2) without this consistent hiss over the top (<http://www.surfnetvic.cjb.net/> via David Onley, MWOZ)

WEATHER and AUSSIES

David Ricquish has been relating weather to reception. "Have been experimenting with DX by the SKY News Australian weather maps. If there is a high sitting over parts of Australia, signals from those regions are generally dominant, meaning one night far west NSW/Q can dominate, the next just coastal Q, the next northern Victoria and so on. Very helpful to avoid wasting time trying to hear stuff that's not going to be there. The SKY weather map is pretty much the reality at the time, and gives a broad overview to help plan DX."

USA

Radio UNICA

From the IRCA DX Monitor:

Radio Formula Takes Over Former Radio Unica AMs. Radio Unica's last day of live Spanish News/Talk programming was Jan. 30, and the 24/7 network went to best-of shows before shutting down for good at midnight on Feb.

At least eight of the former Radio Unica O&Os that have been sold to Multicultural Radio Broadcasting have picked up Radio Formula's 24-hour Spanish News/Talk programming, Radio Formula President/GM Elias Chavando tells R&R, thanks to an agreement between Radio Formula and Multicultural. Among the stations new Radio Formula affiliates:

KAHZ/Dallas, KWRU/Fresno, KXYZ/Houston, WJDM & WWRU/New York, KIDR/Phoenix, KIQI/San Francisco and KQTL/Tucson. WNTD/Chicago and KBLA/Los Angeles will air Radio Formula programming until the debut of Air America Network; WNTD has already been named Air America's flagship, and it is believed the forthcoming "Progressive Talk" network will add KBLA as its first West Coast affiliate. (RW-CA)

TIMING IT RIGHT

Have just been typing out reports for 1700 KQXX Brownsville TX & 1690 KFSG Sacramento CA. While trying to work out local times I came across this good USA site.

<http://www.timefemperature.com>

Handy little DX tool. (David Onley MWDX)

U.S. X-BAND AT A GLANCE

MARCH 2004

COMPILED BY TONY KING, GREYTOWN, NEW ZEALAND

1610	CJWI	Montreal QUE	FF/Creole
1620	WDND	South Bend IN	"ESPN Radio 1620 South Bend"
	KOZN	Bellevue NE	ESPN Sport ."The Zone in Omaha"
	WTAW	College Station TX	'Newstalk 16-20 WTAW' Takes 'USA Radio News' & C-to-C AM
	KBLI	Blackfoot ID	SS "Radio Fiesta"
	KYIZ	Renton WA	Urban AC/ Black Oldies " //KRIZ " Z Twins"
	KSMH	West Sacramento, CA	Rel. ETWN Catholic. "KSMH West Sacramento"
	WDHP	Frederikstad, US Virgins	BBC WS to after 2200 NZDT. Full ID at :59
1630	KCJJ	Iowa City IA	Talk/Sport
	KKWY	Fox Farm WY	C&W AP nx "The Spirit of Wyoming" " K-W-Y 1630"
	KNAX	Ft Worth/Dallas TX	SS. Rel. Radio Vida/ Radio Dos Mil Dos. EE ID :58
	WRDW	Augusta GA	Talk/Sport 'Newstalk 1630'
1640	WKSH	Sussex WI	Disney
	KDZR	Lake Oswego OR	Disney 'KDZR Radio Disney Portland'
	KDIA	Vallejo CA	Talk/religious/life issues
	WTNI	Biloxi MS	"Talk Radio 1640 WTNI Biloxi" Takes Coast to Coast. ABC nx.
	KMMZ	Enid-Oklahoma City OK	All Comedy Radio. P.O. Box 952 Enid OK 73702.
	KBJA	Sandy UT	SS/Radio Unica/Radio Latina .EE ID on hour
1650	WHKT	Portsmouth VA	Disney. "AM1650 WHKT Portsmouth, Radio Disney"
	KBIV	El Paso TX	C & W. "Country Classics KBIV"
	KDNZ	Cedar Falls IA	Talk/ Sport "The Talk Station"//KCNZ Takes 'Coast to Coast'
	KWHN	Fort Smith AR	'Newstalk 1650 KWHN'
	KBJD	Denver CO	Talk. "KNUS-2"
	KFOX	Torrance CA	Korean/ EE ID on hour
1660	KTIQ	Merced CA	Sporting News Network 'The Ticket'
	WFNA	Charlotte NC	Sporting News Radio//WFNZ 610. NEW
	WWRU	Elizabeth NJ	Talk SS Radio Unica.
	WCNZ	Marco Is FL	'Newsradio 1660' AP nx.
	WQSN	Kalamazoo MI	Sports/talk ESPN
	KRZX	Waco TX	ESPN + local sport //KRZI 1580. Nx on hr/local ads .05
	KQWB	West Fargo ND	Nostalgia "Star 1660 is KQWB AM' CNN news
	KXOL	Brigham City UT	"Oldies Radio" (60's rock)
	KXTR	Kansas City KS	'Classical 1660'
	WGIT	Canovanas Puerto Rico	SS oldies "El Gigante"
1670	WMWR	Warner Robins/Macon GA	News/Talk x WRNC "Talk Radio WMWR 1670"
	WTDY	Madison WI	Sports/Talk. "Talk Radio 1670" (Sporting News Network)
	KHPY	Moreno Valley, CA	Radio Catolica SS EE on the hour.
	KNRO	Redding CA	"Redding's ESPN Radio 1670 KNRO"
1680	WTTM	Princeton NJ	Ethnic – Asian "EBC Radio"
	WLAA	Winter Garden FL	SS
	WDSS	Ada MI	Disney 'AM1680 WDSS'
	KAVT	Fresno CA	Disney/SS
	KTFH	Seattle WA	Ethnic./SS Rel/"The Bridge, AM 16-80 KTFH Seattle."
	KRJO	Monroe LA	Urban Gospel. "Rejoice 1680" x KYEA
1690	KDDZ	Arvada CO	Disney
	KFSG	Roseville CA	SS rel. and Asian. EE ID on hr "KFSG Sacramento"
	WRLL	Berwyn/Chicago IL	"Real Oldies 1690"
	WSWK	Adel, GA	Tourist Info 'Wild Adventure Radio'
	WPTX	Lexington Park MD	"Newstalk 1690 WPTX" CNN headline News
1700	WJCC	Miami Springs FL	SS/Rel/"Radio Luz"
	WEUV	Huntsville AL	Black Gospel.
	KTCK	Sherman TX	Sports News Radio "Sports Radio 1310 KTCK- The Ticket"
	KBGG	Des Moines IA	'All News 1700 KBGG'. CNN. Usually female presenter.
	KQXX	Brownsville TX	'Oldies Radio 1700 AM'

AUSTRALIAN X-BAND AT A GLANCE

MARCH 2004

COMPILED BY DAVID RICQUISH, WELLINGTON, NEW ZEALAND

Maximum licensed power: 400 watts, omni-directional antenna

1611	Radio 2	Brocklehurst 2830 (Dubbo)	MOR
	2RF Rete Italia	Griffith 2680	Italian
	Radio 2	St Mary's 2760 (West Sydney)	MOR
	NTC Radio	Tamworth 2340	News/Talk/County
	3XX 16-11 Double X	Hoppers Crossing 3050 (Melbourne)	// FM
	Alive Radio/Top of the Dial	Mildura 3550	Christian
	Radio 2	Cluden 4811 (Townsville)	MOR
	4GT	Dalby 4405	
	6AY	Albany 6330	
	AM 1611 Margaret River Radio	Margaret River 6284	MOR
	6GS	Wagin 6315	//1422 AM Sports
	Radio 2	Darwin 0800	MOR
	Radio 2	Cygnets 7112 (Hobart)	MOR
1620	2MORO	Homebush 2141 (Sydney)	Arabic
	2MAX	Narrabri 2390	// 91.3FM
	1RF Rete Italia	Queanbeyan 2620 (Canberra)	Italian
	Radio 2	Shoal Bay 2315 (Newcastle)	MOR
	3GB Hillside Radio	Bayswater 3153 (Melbourne)	Sports/UK // FM
	Radio 2	Cairns 4870	MOR
	Radio 2	Caloundra 4551 (Sunshine Coast)	MOR
	Radio 2	Carrara 4211 (Gold Coast)	MOR
	4KZ	Georgetown 4871	// 531 AM
	Radio 2	Manly 4179 (Brisbane)	MOR
	Radio 2	Toowoomba 4250	MOR
	Radio 2	Old Noarlunga 5168 (Adelaide)	MOR
1629	NTC Radio	Armidale 2350	News/Talk/Country
	NTC Radio	Brocklehurst 2830 (Dubbo)	News/Talk/country
	Radio 2	Murrumbateman 2582 (Canberra)	MOR
	NTC Radio	O'Connell 2795 (Bathurst)	News/Talk/Country
	2HRN Hospital Radio Network	Sandgate 2304 (Newcastle)	MOR
	3RF Rete Italia	Shepparton 3631	Italian
	Radio 2	Williamstown 3016 (Melbourne)	MOR
	4DB Country Music Network	Dalby 4405	Country
	4RF Rete Italia	Mango Hill 4058 (Brisbane)	Italian
	5RF Rete Italia	Regency Park 5010 (Adelaide)	Italian
	Radio 2	Mundarring 6073 (Perth)	MOR
1638	2ME	Concord West 2138 (Sydney)	Arabic
	3ME	South Morang 3052 (Melbourne)	Arabic
1665	2MM	Marrickville 2204 (Sydney)	Greek
1683	Club AM	Lakemba 2195 (Sydney)	Greek
1701	Radio Brisvaani	17 Mile Rocks 4073 (Brisbane)	Hindi

Notes (1) 6GS 1611 currently silent (2) additional Radio 2 and NTC sites regularly coming on air

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David Ricquish, Wellington



WELCOME TO NEW MEMBER G.W. (BILL) STEWART, Flat 3, 1 Wakelin Street, Carterton 5951. Bill found out about the DX League from the annual club listing in the World Radio TV Handbook. Good to have you in our membership Bill.

PUBLICISING RADIO MONITORING

Our Patron and Life Member **JACK FOX** advises that his experiences with the Prisoner of War Monitoring Service will be aired in a Radio New Zealand 'Spectrum' documentary to be aired on National Radio (and possibly on shortwave via Radio NZ International) on Anzac Day 2004, that is **Sunday 25 April at 12.33 pm (0033 UTC)**. A repeat broadcast should be aired on **Thursday 29 April at 8.06pm (0806 UTC)**. Mark your diaries now to tune in!

Jack's reminiscences and those of fellow member **FRANK GLEN** that have previously featured in the 'NZ DX Times' are now also being published in "The Informer", newsletter of a group made up of former members of the New Zealand Intelligence Corps.

Celebrating 55 years of Radio NZ's Shortwave Mailbox

Just in from **DAVID RICQUISH** comes news of another 'Spectrum' documentary — celebrating 55 years of Radio NZ's shortwave 'Mailbox' programme. This will be aired on **Sunday 21 March** at 12.33pm NZT (0033 UTC) and again at 8.06pm (0806 UTC) on **Thursday 25 March**. The programme will include reminiscences of Ulrich Williams (the original RNZ station manager in 1948), Christine Cole-Catley (original host of Mailbox) and a number of other shortwave station technical and production personalities of the time. Rare recordings of original program themes and the RNZ interval signal with the tui make this a fascinating visit down memory lane for listeners worldwide. Watch out also for a supporting feature article in 'The Listener' magazine.

MORSE CODE UPDATE It may be considered old hat by some, but the International Telecommunication Union has decided to keep the 160-year-old Morse Code in line with current trends. It now has a new character to denote the @ symbol used in Email addresses. The new symbol, which will be known as a "commat," consists of "A" (dot-dash) and "C" (dash-dot-dash-dot), with no space between them. The new symbol will allow amateur radio operators to exchange Email addresses. That is because - in an irony of the digital age - they often use Morse to initiate contacts over the Internet. Nobody can remember when a new symbol was last added to the Morse Code. "It's a pretty big deal," said Paul Rinaldo, chief technical officer for the American Radio Relay League, the US national association for amateur

radio operators. "There certainly hasn't been any change since before World War II." (via Radio Netherlands Media Network 2/04)

HAPPY 40TH BIRTHDAY IRCA ! Celebrating its 40th anniversary this year is the International Radio Club of America, one of 2 active medium wave DX clubs in the United States. IRCA offers an emailed 'DX Monitor' bulletin 35 times a year for US\$10.00 to any part of the world. Check out their website at <http://www.ircaonline.org> for more details. They also have a number of interesting publications that can be purchased by non-members. The 'DXers Technical Guide' runs to almost 200 pages and costs US\$17.50.

The IRCA Mexican Log is an indispensable reference for anyone who hears Mexican radio stations. It lists all AM stations in Mexico by frequency, including call letters, state, city, day/night power, slogans, schedule in UTC, formats, networks and notes. Airmailed cost to Australasia is US\$13.00.

IRCA's "Sunrise/Sunset Maps" consists of 12 maps showing 15 minute sunset and sunrise times for the US and 12 maps showing hourly sunset and sunrise times for the World. Explanation includes use of the maps and examples of DX made possible by knowledge of Sunrise/Sunset Times. Airmailed price to Australasia is US\$4.50. All publications can be ordered from IRCA Bookstore, 9705 Mary NW, Seattle WA 98117-2334, USA.

WORLD RADIO TV HANDBOOK UPDATE Members using this invaluable annual reference to international and domestic broadcasting can now obtain a 13 page update covering the B03 season from the WRTH website at: <http://www.wrth.com/wrthupdatesmarch04.pdf> It includes station information and schedule changes received by WRTH up to 1 March 2004. For those without Internet access who wish to receive a copy, please send a self addressed A4 size envelope to NZRDXL Adcom at Box 3011, Auckland with \$2.50 in mint stamps to cover costs and postage. Deadline for orders is 31 March.

Full copies of the complete WRTH 2004 are still available from Michael Pollard at
Burnet Pollard Books, P.O. Box 6343, Upper Riccarton, Christchurch
or send Michael an email at
radiobooks@xtra.co.nz

Remember to ask about the discount available to members of the NZ Radio DX League

SHORTWAVE GUIDE The publishers of the Shortwave Guide (who also publish the WRTH) advise that they will not be publishing the Shortwave Guide in the future due lack of orders.

A few Collectors copies (no further copies being published) of the Shortwave Guide
are still available from Michael Pollard at
Burnet Pollard Books, P.O. Box 6343, Upper Riccarton, Christchurch
for only \$30 (including Courier Delivery within NZ)
Cheques only please - no credit cards at this knockdown price

branch.news

Compiled by Chief Editor, Wellington



AUCKLAND

The **29 February meeting** was a BBQ held at **Malcolm & Christine Holmes** place in Waikowhai attended by around 20 people! It went on till 10 PM with plenty of talking, a couple of movies watched in the auditorium and even some people around a table completely solving about a 1,000 piece jigsaw puzzle.

The **next DXpedition will be at Sunset Beach on Fri 26th - Sun 28th March**. Directions to get there... Turn right after crossing the famous old Pukekohe bridge (with the arches) and head out to **Port Waikato**; then on to **Sunset Beach** (a righthand turn which is a small bridge over a small stream). Drive all the way down to the beach carpark and look for the bach on top of the hill overlooking and directly opposite the beach shop. If you're not sure ask at the shop for **"The Philips Batch"**. Drive up the long windy driveway which begins to the right of a power pole to get up to the bach.

Please phone Malcolm on (09) 627-6399 or Yuri on (09) 360-3491 for further details.

The **March meeting** will be at the Clubrooms, 3000 Great North Road, New Lynn, just past Whau Creek, on **Sunday, March 28th at 2 PM**.

The **April meeting** will tentatively be at the Clubrooms on Sunday, **April 25th at 2 PM**. Meetings are held on the last Sunday of the month except December.

SOUTHLAND

Our February Meeting was to be held at Tiwai, however due to adverse weather conditions on the day, it was decided to hold the meeting in town at Eddie MacAskills. Several interesting topics not related to Dxing in particular were discussed during the meeting. The **March meeting is to be held at Tiwai on Sunday the 21st of March**.

WELLINGTON AREA

The next get-together is planned for **Sunday, March 28 at 1.45pm**, again at Mark Nicholls place, 4 Parera Grove, Heretaunga, Upper Hutt. T: 04 972 2606.

Branch inquiries to Ted: T: 04 586 2486 email: eddyhopy@hyper.net.nz

All members in Wellington-Kapiti-Wairarapa always welcome to attend. A special May meeting in Wellington City is planned. Watch for details.

Request from Len Martinson ZLIBYA – Monitoring Service Coordinator.

The NZART Monitoring Service needs hams **and Shortwave Listeners** to assist with the monitoring of our ham bands. The ham bands are under serious attack from Asian Cber's and Fishing boats, just listen at the bottom end of the 40m band and the 20m band. If you are interested and would like to join this service please e-mail to ms@nzart.org.nz or lenmart@clear.net.nz or phone 09 235 7712.

I NEED YOUR HELP – ZLIBYA

marketsquare - members free advertisements

FOR SALE

GEC SUPERADIO II (to 1610 khz) in excellent condition sell. You've read all about them ! \$100
Tony King 06 3049402 or email tonyzi@ihug.co.nz

SONY SW55 exc condition, case, reel-up aerial, manual. Surplus to requirements. \$390 +
courier anywhere. Tony King 06 3049402 or email tonyzi@ihug.co.nz

FOR SALE

Now is the time to buy from this selection of top quality receivers !
All checked and in excellent order from League member Alan Jessop

SONY SW55 w/case	\$475
SONY ICF7600DA	\$180
SONY ICF7600D	\$180
SONY ICF6800W	\$400
NATIONAL RFB60	\$160
PANASONIC DR22	\$180
PANASONIC DR28	\$160
PHILIPS D2999	\$350

Phone Alan Jessop 06 378 8997

Sound & Vision, 6 Renall Street Masterton

50th ANNIVERSARY OF THE AUCKLAND BRANCH

We invite branch members, Auckland League members and visitors to join us on Sunday 25 th April, to celebrate the Auckland Branch's 50th Anniversary. There will be a display of vintage DX receivers, old QSLs and other DX memorabilia. There will be a brief talk on the history of the Auckland Branch and members are invited to bring anything of interest along and talk about it. A better than usual afternoon tea will be supplied.

2 pm at the Western Suburbs Radio Clubrooms, 3000 Great North Road, New Lynn, (next to the Whau Creek bridge).

For further information ring Barry Williams 09 6279 070

1954 - 2004
50
YEARS

A Long-Term New Zealand Shortwave Propagation Survey

Compiled by
Mike Butler
Auckland

When do we know that conditions are favourable on shortwave? Of course, you'll say - when we receive a strong signal! And the stronger the signal the better must be the conditions. So, if we choose to record *only* on the occasions when we receive the STRONGEST signals, surely we have the means of charting the best times and frequencies to listen to listen to any particular part of the world.

So that's what I've done since 1961 when I wrote on Shortwave Reception in the then Electrical Trades magazine, *'The Radio and Electrical Review'*. But along with the time, frequency and location of the signal source I was aware that the number of sunspots - the previously accepted measure of the Sun's radiation - had a dramatic effect on shortwave performance.

Therefore Sunspot Numbers were recorded too. Luckily there is a direct correlation between Sunspot Numbers and the Solar Flux Index that has replaced them. And so all my readings were converted to the Flux Index.

Over the years, I found that there are rapid changes in reception when the Index drops below 95 and again, below 76 - where it typically stays for about two years in each Solar Cycle. On the upper side, when the Index reaches 150, reception becomes available on the upper shortwave bands that cannot be enjoyed under the other Flux conditions. Therefore the charts that will follow this article show the shortwave bands that can be expected to give us good reception in NZ when the Solar Flux Index falls between 95 and 149, plus an asterisk (*) indication of reception occurring only when the Solar Flux Index is 150 or greater.

Recently I've spent much time searching the '*NZ DX Times*' from December 1997, extracting items from the 'Bandwatch Under 9MHz and Over 9MHz' sections which seemed to qualify for inclusion in the Survey. Only a 'good' or better signal report was suitable. It was also essential to have the date of reception so that the relevant Solar Flux level could be confirmed. Unfortunately, a mountain of useful data has been lost because of the absence of one or both of these essentials in Bandwatch contributions.

So for everyone's benefit, please check that dates of reception are always included in your reports to the Bandwatch columns of the '*NZ DX Times*' each month. I will continue to scan those pages to improve our propagation knowledge.

As a result of this work, 652 magazine items have been used as Reception Indicators to add to the 5586 items from my own monitoring already in the upper Flux chart. Your good efforts have thus contributed 10.5% of that chart. The star contributors so far have been: Ian Catermole (Blenheim) 117 items, Cliff Couch (Paraparaumu) 86 items and Kevin Brayshaw

(Levin) with 59. And there are 30 others whose reports have also qualified. Thanks to you all.

Let's now look at uses for such a Shortwave Survey:

(1) **AS A MONTHLY 'READY RECKONER'**

Users of the Survey can see at a glance - what times and frequencies should be available for the best reception from the various world areas during normal NZ waking hours in respect of the month concerned. 'Am I likely to get a reasonable signal from this *DX Times* listing?'

(2) **TO SHOW HOW RECEPTION OF A REGION OR AREA VARIES DURING THE DAY**

Users of the Survey can see the specifics of how, for example, reception may fade from a particular area as we approach midday hours in New Zealand.

(3) **AS A BASIS FOR UNDERSTANDING RADIO PROPOGATION**

Examples could include differences in reception between the North and South Islands of NZ, or differences in reception from overseas e.g. between North & South Africa as a basis for further study of reception patterns.

(4) **TO FORM THE BASIS OF A COMPETITION**

Encouraging users to identify additional good reception examples not currently noted in the survey.

(5) **A BASIS FOR FURTHER RESEARCH**

Encouraging hobbyists to produce articles dealing with particular areas of shortwave propagation.

NOTE:

At its 2003 Annual General Meeting, the DX League acknowledged Mike's 40+ years of collating this information as a basis for predicting the best frequencies for reception during each month of the year. We wish to share Mike's research with all members through a series of articles in the *NZ DX Times*, starting this month. Mike welcomes feedback from members that will help improve the usefulness of the survey. Please write to Mike Butler c/o NZ Radio DX League, P.O. Box 3011, Auckland. ***Bryan Clark***

How to Determine the Solar Flux

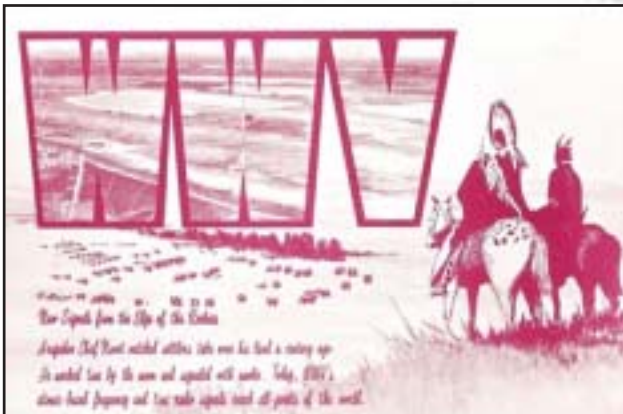
Compiled by
Bryan Clark
Auckland

Every hour of the day at 45 minutes past the hour, Standard Time and Frequency radio stations WWV (Boulder, Colorado, USA) and WWVH (Kauai, Hawaii) broadcast a brief report on solar terrestrial conditions including the Solar Flux reading. WWVH provides the best reception in NZ and depending on the time of day at least one frequency is generally audible. During our local daytime, try 15,000kHz, changing to 10,000kHz or 5,000kHz after dark.

In the airtime between 45 minutes and 46 minutes past the hour, the following solar data readings are broadcast over WWVH — the Solar Flux, the Boulder A Index, and the Boulder K Index. Then Solar Terrestrial Conditions — the extent of solar sunspot activity and geomagnetic disturbance level for both the past day and a forecast for the next day are given. The details are given quickly so it may pay to tape it and replay for clarity. With practice you will quickly note the key information to assist your radio monitoring.

To assist your usage of Mike Butler's survey data, it's helpful to know the solar index reading when you are monitoring the shortwave bands. Mike provides frequency recommendations for a solar flux reading below 95, and another set of recommendations for occasions when the reading exceeds 95. He usually listens to WWVH in the late afternoon to get the latest flux reading.

The solar flux reading can range from a peak of 200+ at the top of the sunspot cycle (eg 1989-90) down to the mid-60s during a minimum (eg 1996-97). As a general rule, the higher the solar flux number, the better reception should be. However the geomagnetic levels (the A and K Index readings) must also be low for optimal reception conditions.



WWV and WWVH issue QSL cards for reception reports

APRIL SHORTWAVE PROPAGATION SURVEY WITH MIKE BUTLER

Based on Mike's monitoring over many years, the Shortwave Bands listed below have given good daytime and evening reception in New Zealand during the month of April, when the Solar Flux Index has been in the current range 87 to 122. January 2004's average was 114 and February's was 107 so the trend is downward. An asterisk indicates good reception was only had when the Flux was above 95. Choose the area that you want to hear, then select the time of day.

Time	SW Bands	Time	SW Bands	Time	SW Bands	Time	SW Bands	Time	SW Bands
UTC	MHZ	UTC	MHZ	UTC	MHZ	UTC	MHZ	UTC	MHZ
Europe		Africa		Russia		Australia		Cent.America	
19	6-11,13*	19	9,13*-17*	19	7	19	6-9	19	17*
20	6-11,13*-17*	20	6-9,15*	20	7	20	7-11	20	-
21	6-11	21	15*	21	-	21	7-13,15*-17*	21	-
22	11*	22	-	22	11	22	7-13,15*-21*	22	-
23	9,11*	23	-	23	11	23	11-13,15*-21*	23	-
00	11*	00	-	00	-	00	13-17,21*	00	-
01	9,11*	01	-	01	-	01	13-17,21*	01	-
02	7-9,11*	02	-	02	-	02	13-17,21*	02	-
03	6-9,11*	03	11	03	7-9,17	03	13-17	03	-
04	6-11	04	11	04	7-11	04	11-17	04	6-9
05	6-11	05	9,15*	05	9-17	05	11-17	05	6-9
06	6-11,13*-17*	06	6-9	06	15-17,21*	06	6-15	06	6-11
07	6-11,13*-17*	07	-	07	15-17,21*	07	6-15	07	6-11
08	7-15,17*	08	-	08	15,17*	08	6-15	08	6-9
09	11-17	09	15	09	9-17	09	6-11,13*	09	6-9
10	15-17	10	-	10	9-17	10	6-9	10	6-0
Middle East		Asia		North Pacific		North America		South America	
19	9*	19	6-11,13*	19	9-13,15*	19	6-9	19	15-17*
20	6-9	20	6-9	20	15*	20	6-13,15*	20	17*
21	-	21	9-11	21	11-17	21	9-13,15*17*	21	11
22	-	22	11	22	15-17	22	11-13,15*17*	22	-
23	-	23	-	23	15-17	23	11,13*	23	-
00	-	00	15*	00	17	00	-	00	-
01	-	01	15*-17*	01	17	01	-	01	-
02	-	02	15*-17*	02	17	02	-	02	11-15
03	11,13*	03	17*	03	17,21*	03	-	03	15
04	6-11	04	21*	04	15-17,21*	04	6-11	04	9
05	6-9, 15*-21*	05	15*	05	9-17,21*	05	5-9	05	7-11
06	11,15*17*	06	15	06	9-17,21*	06	5-11	06	7-11
07	15*	07	15	07	9-17,21*	07	5-9	07	6-11
08	-	08	9-15	08	9-15	08	5-9	08	6-9
09	-	09	9-15,17*	09	7-15	09	5-9	09	6-9
10	-	10	9-15,17*	10	7-15	10	5-7	10	9

NOTE THE GAPS! CAN YOU FIND GOOD (S7+) SIGNALS TO FILL THEM?

The Hydro Dam DXer

Dr Gervan McMillan (Kurow)

Compiled by
Jack Fox ZL4ND
Patron NZ Radio DX
League

A most interesting collection of DX verifications has been offered to the New Zealand Radio DX League for its collection in the University of Otago Hocken Library, Dunedin. It is from the family of the late Dr D G McMillan who DXed at Kurow in the early 1930s.

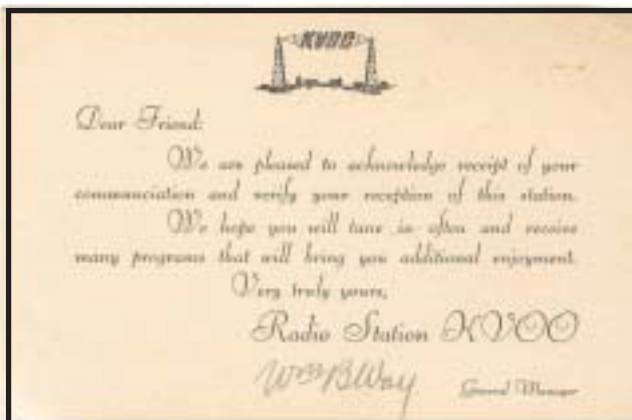
Dr Gervan McMillan had his medical practise at Kurow, North Otago, connected with the Waitaki Hydro Medical Association during the construction of the new Waitaki power hydro dam. He was a member of the New Zealand DX Club and had the number DX 15 OC (Otago). The C is thought to represent Canterbury, it was OT for Otago in 1939. He became associated with the Labour Party and in 1935 he stood for Labour and won the Dunedin West seat. Three years later he was appointed Minister of Marine but ill health precluded him from further politics. Later he was elected to the Dunedin City Council and Otago Hospital Board. He died on February 20 1951, age 46.

As a result Gervan McMillan's collection is not large but what is there is most interesting, especially 70 years later. The card section is nicely held in a photograph album. It would appear his first report was sent February 16 1931 to WMAQ the Chicago Daily News owned station. KFRC San Francisco verified his March 4, 1931 report but, because he did not include a 10-cent stamp there was no Ekko stamp. He probably would not know about the stamp. 2FC Sydney appeared thrilled to receive a report of their daylight transmission being heard in New Zealand as were 2UE. The 2UE card is unique in that it is 23 x 19 cm and in the form of a Log Card with AWA radio advertising down the sides and across the top and bottom. In the centre are two columns, one has space for Sydney stations with 2UE printed and alongside under the heading Distant Stations is listed Dr McMillan's report being confirmed. He has two such cards.

STATION 2UE			
LOG CARD			
SYDNEY STATIONS		DISTANT STATIONS	
STATION AND CALL LETTERS	FREQ. (Mc)	STATION AND CALL LETTERS	FREQ. (Mc)
2UE RADIO HOUSE	293	Int. S. of Chatham	
		Reception 25/4/31 verified	
		RADIO 2UE SYDNEY	
		LIMITED	

Eric Shackle Collection, NZ Radio DX League Archives

Reception from America must have been great in those days as he collected many verifications from the States and KVOO Tulsa, Okalahoma in April 1931 issued the same style of card as did in 1944. It would look as if, during his rounds, he was caught short of writing material for on one occasion the back of a KRLD card had been pressed in to record a patient's medical note! Many stations issued Ekko stamps which today would be valuable.

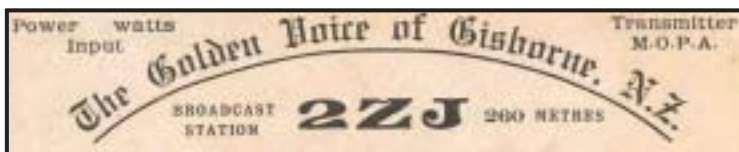


Eric Shackle Collection, NZ Radio DX League Archives

Just to prove long distance stations could be heard in those early days he has letter verifications from Radio Journal, in Bratislava, Czechoslovakia a "branch establishment" of Prague. The Post and Telegraph Department in Bangkok confirmed HSP1 on 350 metres with 2.5 kW. They were also testing a shortwave station HSP2 on 41 metres with the same amount of power. The Indian State Broadcasting Service confirmed a report to VUB on 357 mtres.

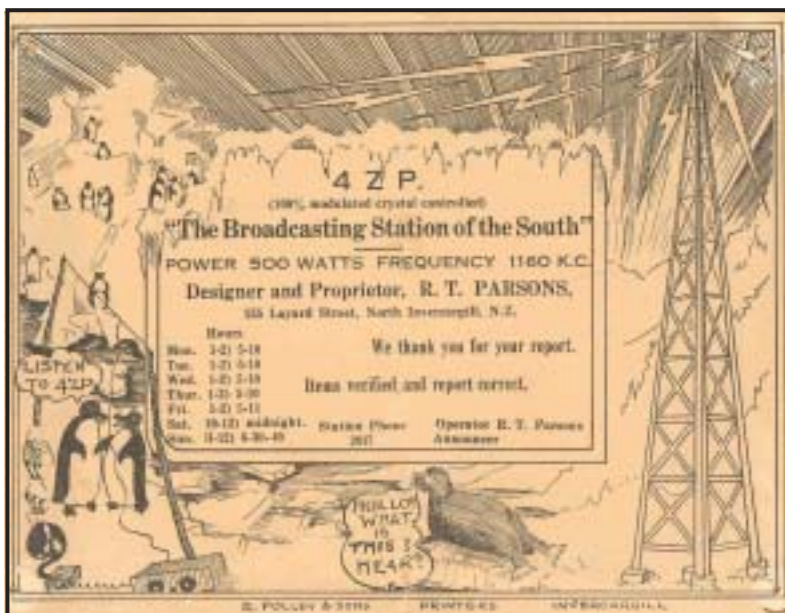
In the last five pages are verifications of the New Zealand stations including many B class ones, but it is one from the Radio Broadcasting Company of New Zealand in Christchurch the wording made me have a grin, but that was the way it was done in those days. "Your letter of the 14th instant is before us for attention." They confirmed he had heard 1YA 2YA 3YA and 4YA.

Today, even with so many radio stations on the air, the privately owned AM stations in New Zealand which carried out pioneering broadcasting, hold interest to DX listeners. Stations like 2ZE in Eketahuna, "The Golden Voice of Gisborne, NZ" was the slogan of 20 watt 2ZJ which was on the air every day for periods except the authorised silent day on Thursday.



Eric Shackle Collection, NZ Radio DX League Archives

(Many of the private B class stations had silent days when they did not transmit. I cannot confirm whether this was voluntary or a Post and Telegraph Department requirement.) This station was finally sold to the NZBS in the 1950s. The well known Parsons Radio Supplies station 4ZP stated their power ranged from 50 to 100 watts, while Frank Barnett who owned Barnett's Radio Supplies in Dunedin operated 4ZO on 1080. It is interesting that a son is still in radio at Wanaka and was largely responsible for Central Otago listeners being able to hear Radio New Zealand National Programme when he developed a special antenna.



Eric Shackle Collection, NZ Radio DX League Archives

Across the Tasman the Australian stations are of interest, including one from 2UE Sydney with a photograph of a "millions" of people listening to a broadcast of a test match in 1930. An interesting one is the AWA VK2ME "The Largest Broadcasting Station in the Southern Hemisphere" located at Pennant Hills, Sydney, with 20 kilowatts. It was used for wireless telephone service to England and 22 European countries as well as overseas broadcasting. Australia's population was then 6,3 million.

Three former NZ DX Club members recall a meeting of the newly reformed Otago branch in 1941 when Dr McMillan attended and displayed his QSLs. Two League members, Murray Lamont and Jack Fox, and the then president, Ron Williams ZL1RAW can still recall that meeting and listening to his DX experience of 10 years earlier. They remember too, cycling in dark wartime blackout streets to the Williams home on that night.

While Gervan was unable to continue the hobby, his collection is a valuable contribution to the history of the DX hobby in New Zealand and preserved for the future of this country's history.

NEW ZEALAND RADIO DX LEAGUE (Inc.)

The **New Zealand Radio DX League (Inc.)** is a non-profit organisation founded in 1948 with the main aim of promoting the hobby of Radio DXing.

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Club Magazine:

The NZ DX Times, PO Box 3011, Auckland.

Published monthly. Registered publication.

ISSN 0110-3636.

Chief Editor/Publisher - Mark Nicholls

editor@radiodx.com

Printed by ProCopy Ltd. Wellington

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