

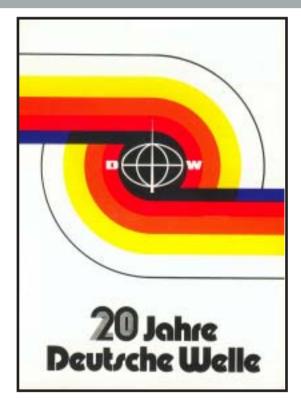
New Zealand DX Times

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New Zealand Radio DX League (est. 1948)
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FADING VOICE OF GERMANY

Compiled by Bryan Clark



Deutsche Welle QSL (1974) From Chief Editors Collection

DX League President **DAVID NORRIE, BARRY WILLIAMS, IAN CATTERMOLE** and other members have received the following advice from Margot Forbes at Deutsche Welle's English Service: "To date DW-Radio's English Service has broadcast to all of its target audiences via the shortwave but, as of 30th March 2003, this policy will change. In future Deutsche Welle will take into account the conditions prevailing on individual media markets and

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loque shortwave transmissions to Asia and Africa continuing for the foreseeable future. However, shortwave broadcasts to the highly developed media markets of North America and Australia and New Zealand will be terminated. Instead, DW will focus on expanding the number of radio stations, like Canadian Broadcasting Corporation or ABC News Radio, who rebroadcast DW-Radio's programmes successfully. Listeners in those regions will of course still be able to hear us via satellite or by means of our Internet page at www.dw-world.de/ English. If you would like to be informed about the facelift the English Service of Deutsche Welle (DW) will be experiencing with the start of summer time on 30th March 2003. iust send e-mail to an margot.forbes@dw-world.de and I will be pleased to send you the relevant information. Regards, Margot Forbes". Fortunately NZ DXers and SWLs will retain some ability to listen to DW Radio via the Asian and African Services and in some parts of the country DW Television is carried on regional TV channels such as Auckland's Triangle TV.

respond to new technical developments in the most ap-

propriate fashion. DW plans to introduce digital shortwave transmissions to East Asia and Europe with ana-

ARTICLES

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DXers Brought hope to 34 thousands. Amazing War Effort by a Small Group by Jack Fox

Afghanistan Update 38 by Martin Hadlow

A Gem in the Wairarapa 39 by Stuart Forsyth

bandwatch.under9@radiodx.com Compiled by Ken Baird, Christchurch



Please note that all frequencies should be in Kilohertz and, $\underline{\text{time in UTC}}$ (= GMT = UT), # indicates reception out of NZ, 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
3210	0820	USA, WWCR poor/fair in EE, Connie Lawn with political comment, ID 0900 KVB 20/1
3275	1220	PNG, R Southern Highlands in EE/Tok Pisin with pop music prgm — KAB 15/1
3280	0850	ECUADOR, La Voz del Napo fair in Spanish, QQ and Andean music, ID 0935 KVB 12/1
3289.9	1054	ECUADOR, R Centro with Spanish talk followed by ID and ads, fair but noisy # RAD 31/12
3365	1220	PNG, R Milne Bay poor in EE with news on PNG — KAB 15/1
3375.1	0932	BRAZIL, R Nacional Sao Gabriel fair in Portuguese with ads, announcements and IDs and vocals - # RAD 30/12
	0945	PERU, R San Antonio with Spanish talk and announcements and ID - # RAD 30/12
3850	0951	PNG, R Independente, Bougainville weak with Island music on AM — DN 25/1
4606.5	0945	INDONESIA, RRI Serui with lovely rythmns and BI language, weak — DN 25/1
4747	0929	PERU, R Huanta fair in QQ and Andean music, ID 0956 — KVB 14/1
	1040	PERU, R Huanta 2000 MA with Spanish talk with rustic OA vocals, poor - # RAD 1/1
4754	0823	BRAZIL, R Educacao Campo Grande fair in Portuguese with lively format, rooster, ads, phone-in, ID 0843 — KVB 14/1
4775	1040	PERU, R Tarma with prgm of Huaynos with Spanish talk, ads and ID, fair but
		noisy - # RAD 31/12
4800	1804	LESOTHO, R Lesotho with Afro hymns on a Sunday evening,m unmistakeable despite no ID, thanks to Ralph Brandi re tip — DN 19/1
4805	0835	BRAZIL, R Dif Amazonas good in Portuguese. A good night for Brazilians — IC 9/1
4815	0842	BRAZIL, R Difusora Londrina poor in Portuguese with music and jingle ID 0859 — KVB 20/1
	1000	ECUADOR, R El Buen Pastor flute opening followed by Quichua and Spanish
4054.0	1017	announcements, fair/good - # RAD 30/12
4856.2	1016	PERU, R La Hora with Spanish talk about Peru, ID 1020, poor/fair - # RAD 30/12
4877	0958	BOLIVIA, R La Cruz del Sur fair/good in QQ with spoken prgm ads, music and ID 1003 — KVB 14/1
4890	1225	PNG, Port Moresby good in EE with C & W prgm — KAB 15/1
4915	0849	BRAZIL, R Anhanguera fair in Portuguese with talk, ads and frequent IDs KVB 21/1
	0914	BRAZIL, R Difusora Macapa poor/fair in Portuguese with ads, ballads and ID 0915. Previously listed as R Nacional Macapa — KVB 15/1
4930	0908	BOLIVIA, R San Miguel fair in Spanish and vernac with nice local pop music ID 0915 — KVB 14/1
	0931	BOLIVIA, R San Miguel big, clear IDs on 2 evenings at s/on and huge signal, nothing on 4926, a move up from this freq? — DN 21/1

 PERU, R Cultural Amauta with vocals with ID and ad string, poor/fair - # RAD 1/7 PERU, R Horizzonte with OA vocals, ID, TC and talk in Spanish, poor - # RAD 30/1: PERU, R Horizzonte with OA vocals, ID, TC and talk in Spanish, poor - # RAD 30/1: USA, VOA good in EE with news and sports, ID 1028 — KVB 5/1 RUSSIA, R Studio with pop vocals, IDS in multiple languages 2055, off at 2300 after EE ID - # RAD 30/12 VIETNAM, V of Vietnam good in presumed Vietnamese with talk with man refs to Vietnam — KVB 5/1 LATVIA, Laser Radio with music & ID followed by more EE pops, fair at clost down and improving on this Sunday only broadcast - # RAD 22/12 USA, WYFR good in EE with low key relig prgm — KAB 15/1 AUSTRIA, V of Viet Nam relay poor in EE with severe QRM from V of Turkey with news and reports with patriotic songs from the 60's — RFK 25/1 CANADA, R Netherlands good in EE with S/on, to 1130 news then Newsline RFK 22/2 CANADA, R Netherlands fair in EE with GrMR, prgm on town planning — KAB 15/1 UZBECKISTAN, R Tashkent poor in EE with strong co-channel QRM, better on // 9715 — KAB 15/1 BRAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, relig talk in Spanish, some HJ music good but QRM - # JB Ω BRAZIL, R Gaucha fair in Portuguese — IC 8/1 BRAZIL, R Gaucha fair in Portuguese — IC 8/1 BRAZIL, R Gaucha fair in Portuguese with relig prgm — IC 9/1 AUSTRALIA, R Australia good in Portuguese with relig prgm — IC 9/1 GERMANY, Bayerischer Rundfunk v good in German — IC 9/1 BRAZIL, R Tippi/Universo good in Portuguese with relig prgm — IC 9/1 BRAZIL, R Tippi/Universo good in Portuguese with relig prgm — IC 9/1 BRAZIL, R Tippi/Universo good in Portuguese with relig prgm — IC 9/1 GERMANY, Bayerischer Rundfunk v good in German — IC 9/1 BRAZIL, R Tippi	4940	1200	SRI LANKA, SLBC fair in EE after ID and freq announcements, web URL and
 PERU, R Horizonte with OA vocals, ID, TC and talk in Spanish, poor - # RAD 30/1: USA, VOA good in EE with news and sports, ID 1028 — KVB 5/1 RUSSIA, R Studio with pop vocals, IDS in multiple languages 2055, off at 2300 after EE ID - # RAD 30/12 VIETNAM, V of Vietnam good in presumed Vietnamese with talk with man refs to Vietnam — KVB 5/1 LATVIA, Laser Radio with music & ID followed by more EE pops, fair at closs down and improving on this Sunday only broadcast - # RAD 22/12 USO, WYFR good in EE with low key relig prgm — KAB 15/1 AUSTRIA, V of Viet Nam relay poor in EE with severe QRM from V of Turkey with news and reports with patriotic songs from the 60's — RFK 25/1 CANADA, R Netherlands good in EE with AQRM, prgm on town planning — KAB 15/1 DATOLO CANADA, R Netherlands fair in EE with AQRM, prgm on town planning — KAB 15/1 BAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, relig talk in Spanish, some HJ music good but QRM - # JB Q AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/1 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/1 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 GOOD 0825 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 BRAZIL, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 LIBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 LIBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 LIBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 LIBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 LIBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 LIBERIA, R Liberia Intl relig prg	4055	10.50	news — KAB 15/1
 USA, VOA good in EE with news and sports, ID 1028 — KVB 5/1 RUSSIA, R Studio with pop vocals, IDS in multiple languages 2055, off at 2300 after EE ID - # RAD 30/12 VIETNAM, V of Vietnam good in presumed Vietnamese with talk with man refs to Vietnam — KVB 5/1 LATVIA, Laser Radio with music & ID followed by more EE pops, fair at clost down and improving on this Sunday only broadcast - # RAD 22/12 USA, WYFR good in EE with low key relig prgm — KAB 15/1 AUSTRIA, V of Viet Nam relay poor in EE with severe QRM from V of Turkey with news and reports with patriotic songs from the 60's — RFK 25/1 CANADA, R Netherlands good in EE with S/on, to 1130 news then Newsline RFK 22/1 CANADA, R Netherlands fair in EE with QRM, prgm on town planning — KAB 15/1 DAYABELL, R Senado v good in Portuguese (like a local) — IC 9/1 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, relig talk in Spanish, some HJ music good but QRM - # JB Ω BRAZIL, R Gaucha fair in Portuguese — IC 8/1 BRAZIL, R Gaucha fair in Portuguese — IC 8/1 MOROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 MOROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 MOROCCO, R Sawa v good in Portuguese with relig prgm — IC 9/1 LIBERIA, R Liberia Intl relig prgm until 0740 then church address then full IC and TC then light relig vocals, some QRM - # JB 26/1 PERU, R Union good in Spanish — IC 9/1 SIERRA LEONE R UNAMSIL with prgm of regional music, with announcement and dedications, ID 0325, EE mixed with vernac - # RAD 17/1 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostl news, used to be an 645 - # JB 31/1 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/6185 PERU, R Union good in Spanish — IC 9/1 SIERRA LEONER CUNAMSI			
 RUSSIA, R Študio with pop vocals, IDS in multiple languages 2055, off at 2300 after EE ID - # RAD 30/12 VIETNAM, V of Vietnam good in presumed Vietnamese with talk with man refs to Vietnam — KVB 5/1 LATVIA, Laser Radio with music & ID followed by more EE pops, fair at close down and improving on this Sunday only broadcast - # RAD 22/12 USA, WYFR good in EE with low key relig prgm — KAB 15/1 AUSTRIA, V of Viet Nam relay poor in EE with severe QRM from V of Turkey with news and reports with patriotic songs from the 60's — RFK 25/1 CANADA, R Netherlands good in EE with Son, to 1130 news then Newsline RFK 22/1 CANADA, R Netherlands foir in EE with ORM, prgm on town planning — KAB 15/1 DIZBECKISTAN, R Tashkent poor in EE with strong co-channel QRM, better on // 9715 — KAB 15/1 COLOMBIA, La Voice de tu Conciencia , no 1D but sounded like them, relig talk in Spanish, some HJ music good but QRM - # JB Ω BRAZIL, R Gaucha fair in Portuguese — IC 8/1 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/1 MOROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 MOROCCO, R Sowa v good in Portuguese with relig prgm — IC 9/1 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 BRAZIL, R Dipi/Universo good in Portuguese with relig prgm — IC 9/1 UBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 UBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 UBERIA, R Dipi/Universo good in Portuguese with relig prgm — IC 9/1 SIERRA LEONE R UNAMYSIL with prgm of regional music, with announcement and dedications, ID 0325, EE mixed with vernac - # RAD 17/1 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostinews, used to be on 6045 - # JB 31/1 SIEGAPONE, R Singapo			
 2300 after EE ID - # RAD 30/12 VIETNAM, V of Vietnam good in presumed Vietnamese with talk with man refs to Vietnam — kVB 5/1 2219 LATVIA, Laser Radio with music & ID followed by more EE pops, fair at clost down and improving on this Sunday only broadcast - # RAD 22/12 2595 1205 USA, WYFR good in EE with low key relig prgm — KAB 15/1 2595 1800 AUSTRIA, V of Viet Nam relay poor in EE with severe QRM from V of Turkey with news and reports with patriotic songs from the 60's — RFK 25/1 2596 1126 CANADA, R Netherlands good in EE with s/on, to 1130 news then Newsline RFK 22/2 2597 CANADA, R Netherlands fair in EE with srong co-channel QRM, better on // 9715 — KAB 15/1 25970 0840 BRAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 26010.8 0800 BRAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 2610.8 0801 BRAZIL, R Inconfidencia good in Portuguese — IC 8/1 2610.8 0802 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 2604 0815 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 2604 0825 BRAZIL, R Australia good in Ee with latest cricket news and ID — KAB 15/1 2604 0820 MOROCCO, NOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 2605 0830 GERMANY, Bayerischer Rundfunk v good in German — IC 9/1 2606 0825 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 2615 0835 PRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 2616 0835 RAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 2617 UIBERIA, R Liberia Intl relig prgm until 0740 then church address then full If and TC then light relig vocals, some QRM - # JB 26/1 2618 186 PEU, R Union good in Spanish — IC 9/1 2619 OROCCO, R Sawa v good in Spanish — IC 9/1 2610 1215 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/61 2610 1215 SINGAPORE, R Sing			
VIETNAM, V of Vietnam good in presumed Vietnamese with talk with man refs to Vietnam — KVB 5/1 LATVIA, Laser Radio with music & ID followed by more EE pops, fair at clost down and improving on this Sunday only broadcast - # RAD 22/12 USA, WYFR good in EE with low key relig prgm — KAB 15/1 AUSTRIA, V of Viet Nam relay poor in EE with severe QRM from V of Turkey with news and reports with patriotic songs from the 60's — RFK 25/1 CANADA, R Netherlands good in EE with s/n, to 1130 news then Newsline RFK 22/1 1220 CANADA, R Netherlands fair in EE with ARM, prgm on town planning — KAB 15/1 1230 UZBECKISTAN, R Tashkent poor in EE with strong co-channel QRM, better on // 9715 — KAB 15/1 1240 BRAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 1250 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, relig talk in Spanish, some HJ music good but QRM - # JB Ω 1250 BRAZIL, R Inconfidencia good in Portuguese — IC 8/1 1260 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 1270 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/1 1270 MOROCCO VOA with On the Line prgm talking about student protests in Irran, poor // 13710 — SMF 26/1 1270 MOROCCO, R Sawa v good in Arabic — IC 9/1 1270 BRAZIL, R Iberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 1271 UIBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 1272 UIBERIA, R Liberia Intl relig prgm until 0740 then church address then full IC and TC then light relig vocals, some QRM - # JB 26/1 1273 PERU, R Union good in Spanish — IC 9/1 1274 SIRRALEONER UNAMSIL with prgm of regional music, with announcement and dedications, ID 0325, EE mixed with vernac - # RAD 17/1 1275 COLOMBIA, R Melodia with ID with call letters and freqs. V good with most news, used to be on 6045 - # JB 31/1 1275 SIRGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/1 1276 COLOMBIA, R Melodia with ID with call letters and freqs. V good with most news, used to be on 6045 - # JB 31/1 1276 COLOMBIA, R Melodia with rel	5920	2248	
refs to Vietnam — KVB 5/1 LATVIA, Laser Radio with music & ID followed by more EE pops, fair at close down and improving on this Sunday only broadcast - # RAD 22/12 USA, WYFR good in EE with low key relig prgm — KAB 15/1 AUSTRIA, V of Viet Nam relay poor in EE with severe QRM from V of Turkey with news and reports with patriotic songs from the 60's — RFK 25/1 1220 CANADA, R Netherlands good in EE with s/on, to 1130 news then Newsline RFK 22/1 1220 CANADA, R Netherlands fair in EE with QRM, prgm on town planning — KAB 15/1 1220 UZBECKISTAN, R Tashkent poor in EE with strong co-channel QRM, better on // 9715 — KAB 15/1 1230 BRAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 1240 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, religional talk in Spanish, some HJ music good but QRM - # JB Ω 1250 BRAZIL, R Gaucha fair in Portuguese — IC 8/1 1260 BRAZIL, R Gaucha fair in Portuguese — IC 8/1 1260 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 1260 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 1270 AUSTRALIA, R Australia good in Ewith latest cricket news and ID — KAB 15/1 1260 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 1260 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 1260 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 1261 BREAIA, R Liberia Intl bloadshed on Cote D'ivoire and firm ID — DN 20/1 1261 DIBERIA, R Liberia Intl relig prgm until 0740 then church address then full IC and TC then light relig vocals, some QRM - # JB 26/1 1261 PERU, R Union good in Spanish — IC 9/1 1261 SIRGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/1 1262 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostl news, used to be on 6045 - # JB 31/1 1263 PERU, R Union good in Spanish — IC 9/1 1264 SIRGAPORE, R Singapore Intl fiair in EE with comment on Iraq, some QRM — KAB 15/1 1265 PERU, R Willome Perus Per			
LATVIA, Laser Radio with music & ID followed by more EE pops, fair at clost down and improving on this Sunday only broadcast - # RAD 22/12 USA, WYFR good in EE with low key relig prgm — KAB 15/1 AUSTRIA, V of Viet Nam relay poor in EE with severe QRM from V of Turkey with news and reports with patriotic songs from the 60's — RFK 25/1 CANADA, R Netherlands good in EE with S/on, to 1130 news then Newsline RFK 22/ 1220 CANADA, R Netherlands good in EE with QRM, prgm on town planning — KAB 15/1 1200 UZBECKISTAN, R Tashkent poor in EE with strong co-channel QRM, better on // 9715 — KAB 15/1 5990 0840 BRAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 COLOMBIA, ta Voice de tu Conciencia , no ID but sounded like them, religital kin Spanish, some HJ music good but QRM - # JB Ω 6010.8 0800 BRAZIL, R Inconfidencia good in Portuguese — IC 8/1 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/1 MOROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 MOROCCO, R Sawa v good in Portuguese with relig prgm — IC 9/1 6045 0820 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 6060 0825 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 6072 ILBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 0725 ILBERIA, R Liberia Intl relig prgm until 0740 then church address then full If and TC then light relig vocals, some QRM - # JB 26/1 PERU, R Union good in Spanish — IC 9/1 6119 0307 SIERRA LEONE R UNAMSIL with prgm of regional music, with announcement and dedications, ID 0325, EE mixed with vernac - # RAD 17/1 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostl news, used to be on 6045 - # JB 31/1 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/ CANARY IS, Full Gospel Las Palmas Church on USB in Korean with sermor and relig vocals, v strong signal - # RAD 27/12	5925	1032	VIETNAM, V of Vietnam good in presumed Vietnamese with talk with many
down and improving on this Sunday only broadcast - # RAD 22/12 USA, WYFR good in EE with low key relig prgm — KAB 15/1 AUSTRIA, V of Viet Nam relay poor in EE with severe QRM from V of Turkey with news and reports with patriotic songs from the 60's — RFK 25/1 CANADA, R Netherlands good in EE with S/on, to 1130 news then Newsline RFK 22/1 CANADA, R Netherlands fair in EE with QRM, prgm on town planning — KAB 15/1 UZBECKISTAN, R Tashkent poor in EE with strong co-channel QRM, better on // 9715 — KAB 15/1 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, relig talk in Spanish, some HJ music good but QRM - # JB Ω BRAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, relig talk in Spanish, some HJ music good but QRM - # JB Ω BRAZIL, R Gaucha fair in Portuguese — IC 8/1 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 1200 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/ 6040 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 MOROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 MOROCCO, R Sawa v good in Portuguese with relig prgm — IC 9/1 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 UIBERIA, R Liberia Intl relig prgm until 0740 then church address then full IC and TC then light relig vocals, some QRM - # JB 26/1 PERU, R Union good in Spanish — IC 9/1 SIERRA LEONE R UNAMSIL with prgm of regional music, with announcement and dedications, ID 0325, EE mixed with vernac - # RAD 17/1 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostl news, used to be on 6045 - # JB 31/1 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/ CHINA, China Huayi Broadcasting Co. good in Chinese with pop music, FA with interviews, ID in EE/Chinese "FM 107.1 China Huayi Broadcasting Corp" — KVB 6/1 ITALY, IRRS with EE peace prgm complaining about US Patriot Act, ID at 2100 then into Italian relig p			refs to Vietnam — KVB 5/1
down and improving on this Sunday only broadcast - # RAD 22/12 USA, WYFR good in EE with low key relig prgm — KAB 15/1 AUSTRIA, V of Viet Nam relay poor in EE with severe QRM from V of Turkey with news and reports with patriotic songs from the 60's — RFK 25/1 CANADA, R Netherlands good in EE with S/on, to 1130 news then Newsline RFK 22/1 1220 CANADA, R Netherlands fair in EE with QRM, prgm on town planning — KAB 15/1 UZBECKISTAN, R Tashkent poor in EE with strong co-channel QRM, better on // 9715 — KAB 15/1 S990 0840 BRAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, relig talk in Spanish, some HJ music good but QRM - # JB Ω BRAZIL, R Gaucha fair in Portuguese — IC 8/1 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 AUSTRALIA, R Australia good in Ee with latest cricket news and ID — KAB 15/ 6040 1845 MOROCCO VOA with On the Line prgm talking about student profests in Iran, poor // 13710 — SMF 26/1 MOROCCO, R Sawa v good in Portuguese with relig prgm — IC 9/1 0725 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 UIBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 UIBERIA, R Liberia Intl relig prgm until 0740 then church address then full IC and TC then light relig vocals, some QRM - # JB 26/1 PERU, R Union good in Spanish — IC 9/1 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostl news, used to be on 6045 - # JB 31/1 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/ 6185 0940 CHINA, China Huayi Broadcasting Co. good in Chinese with pop music, FA with interviews, ID in EE/Chinese "FM 107.1 China Huayi Broadcasting Corp" — KVB 6/1 ITALY, IRRS with EE peace prgm complaining about US Patriot Act, ID at 2100 then into Italian relig prgm - # JB 18/1 PIRATE [Euro] Reflections Europe with relig prgm until ID at close at 2335 - # RAD 22/12 CANARY IS, Full Gospel Las Palmas Church on USB in Korean with sermon and relig vocals, v strong signal - # RAD 27/1	5935	2219	LATVIA, Laser Radio with music & ID followed by more EE pops, fair at close
 USA, WYFR good in EE with low key relig prgm — KAB 15/1 AUSTRIA, V of Viet Nam relay poor in EE with severe QRM from V of Turkey with news and reports with patriotic songs from the 60's — RFK 25/1 CANADA, R Netherlands good in EE with QRM, prgm on lown planning — KAB 15/1 UZBECKISTAN, R Tashkent poor in EE with strong co-channel QRM, better on // 9715 — KAB 15/1 BRAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, relig talk in Spanish, some HJ music good but QRM - # JB Ω BRAZIL, R Gaucha fair in Portuguese — IC 8/1 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/6 BRAZIL, R Sundo v good in Arabic — IC 9/1 MOROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 MOROCCO, R Sawa v good in Arabic — IC 9/1 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 BRAZIL, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 UIBERIA, R Liberia Intl relig prgm until 0740 then church address then full IC and TC then light relig vocals, some QRM - # JB 26/1 PERU, R Union good in Spanish — IC 9/1 SIERRA LEONE R UNAMSIL with prgm of regional music, with announcement and dedications, ID 0325, EE mixed with vernac - # RAD 17/1 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostin news, used to be on 6045 - # JB 31/1 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/6185 O940 CHINA, China Huayi Broadcasting Co. good in Chinese witrh pop music, FA with interviews, ID in EE/Chinese "FM 107.1 China Huayi Broadcasting Corp" — KVB 6/1 TIALY, IRRS with EE peace prgm complaining about US Patriot Act, ID at 2100 then into Italian relig prgm - # JB 18/1 PIRATE (Euro) Refl			
AUSTRIA, V of Viet Nam relay poor in EE with severe QRM from V of Turkey with news and reports with patriotic songs from the 60's — RFK 25/1 CANADA, R Netherlands good in EE with Syon, to 1130 news then Newsline RFK 22/1 CANADA, R Netherlands fair in EE with QRM, prgm on town planning — KAB 15/1 UZBECKISTAN, R Tashkent poor in EE with strong co-channel QRM, better on // 9715 — KAB 15/1 BRAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 COLOMBIA, La Voice de tu Conciencia, no ID but sounded like them, religitally in Spanish, some HJ music good but QRM - # JB Ω BRAZIL, R Inconfidencia good in Portuguese — IC 8/1 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/6040 1845 MOROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 MOROCCO, R Sawa v good in Arabic — IC 9/1 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 GERMANY, Bayerischer Rundfunk v good in German — IC 9/1 UBERIA, R Liberia Intl Pelig prgm until 0740 then church address then full IC and TC then light relig vocals, some QRM - # JB 26/1 IBERIA, R Liberia Intl relig prgm until 0740 then church address then full IC and TC then light relig vocals, some QRM - # JB 26/1 COLOMBIA, R Melodia with ID with call letters and freqs. V good with most news, used to be on 6045 - # JB 31/1 COLOMBIA, R Melodia with ID with call letters and freqs. V good with most news, used to be on 6045 - # JB 31/1 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/6185 0940 CHINA, China Huayi Broadcasting Co. good in Chinese with pop music, FA with interviews, ID in EE/Chinese "FM 107.1 China Huayi Broadcasting Corp" — KVB 6/1 ITALY, IRSS with EE peace prgm complaining about US Patriot Act, ID at 2100 then into Italian relig prgm - # JB 18/1 PIRATE [Euro] Reflections Europe with relig prgm until ID at close at 2335 - # RAD 22/12 CANARY IS, Full Gospel Las Palmas Church on USB in Korean with sermonal relig vocals,	5950	1205	
with news and reports with patriotic songs from the 60's — RFK 25/1 CANADA, R Netherlands good in EE with s/on, to 1130 news then Newsline RFK 22/5 (2ANADA, R Netherlands fair in EE with QRM, prgm on town planning — KAB 15/5 1200 UZBECKISTAN, R Tashkent poor in EE with strong co-channel QRM, better on // 9715 — KAB 15/1 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, religitalik in Spanish, some HJ music good but QRM - # JB Ω BRAZIL, R Inconfidencia good in Portuguese — IC 8/1 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/1 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/6040 1845 MOROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 MOROCCO, R Sawa v good in Arabic — IC 9/1 GERMANY, Bayerischer Rundfunk v good in German — IC 9/1 LIBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 UBERIA, R Liberia Intl relig prgm until 0740 then church address then full If and TC then light relig vocals, some QRM - # JB 26/1 GERWALE, R Nelodia with ID with call letters and freqs. V good with mostl news, used to be on 6045 - # JB 31/1 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/6 CHINA, China Huayi Broadcasting Co. good in Chinese witrh pop music, FA with interviews, ID in EE/Chinese "FM 107.1 China Huayi Broadcasting Corp" — KVB 6/1 ITALY, IRS with EE peace prgm complaining about US Patriot Act, ID at 210 (ANAPY IS, Full Gospel Las Palmas Church on USB in Korean with sermor and relig vocals, v strong signal - # RAD 27/12			
 CANADA, R Netherlands good in EE with s/on, to 1130 news then Newsline RFK 22/CANADA, R Netherlands fair in EE with QRM, prgm on town planning — KAB 15/1 UZBECKISTAN, R Tashkent poor in EE with strong co-channel QRM, better on // 9715 — KAB 15/1 BRAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, religitally in Spanish, some HJ music good but QRM - # JB Ω BRAZIL, R Gaucha fair in Portuguese — IC 8/1 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/1 MOROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 MOROCCO, R Sawa v good in Arabic — IC 9/1 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 GERMANY, Bayerischer Rundfunk v good in German — IC 9/1 GERMANY, Bayerischer Rundfunk v good in German — IC 9/1 LIBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 LIBERIA, R Liberia Intl relig prgm until 0740 then church address then full II and Tc then light relig vocals, some QRM - # JB 26/1 PERU, R Union good in Spanish — IC 9/1 SIERRA LEONE R UNAMSIL with prgm of regional music, with announcement and dedications, ID 0325, EE mixed with vernac - # RAD 17/1 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostl news, used to be on 6045 - # JB 31/1 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/0 CHINA, China Huayi Broadcasting Co. good in Chinese witrh pop music, FA with interviews, ID in EE/Chinese "FM 107.1 China Huayi Broadcasting Corp" — KVB 6/1 TIALY, IRRS with EE peace prgm complaining about US Patriot Act, ID at 2100 then into Italian relig prgm - # JB 18/1 PIRATE (Euro) Reflections Europe with relig prgm until ID at close at 2335 - # RAD 22/1: CAN	0700	1000	
 1220 CANADA, R Netherlands fair in EE with QRM, prgm on town planning — KAB 15/5 1200 UZBECKISTAN, R Tashkent poor in EE with strong co-channel QRM, better on // 9715 — KAB 15/1 15990 0840 BRAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 16009.8 0845 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, religitalik in Spanish, some HJ music good but QRM - # JB Ω 16000 0815 BRAZIL, R Inconfidencia good in Portuguese — IC 8/1 16000 0815 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 1200 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/6040 1845 MOROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 16045 0820 MOROCCO, R Sawa v good in Arabic — IC 9/1 16085 0830 GERMANY, Bayerischer Rundfunk v good in German — IC 9/1 16180 0610 LIBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 16190 0725 LIBERIA, R Liberia Intl relig prgm until 0740 then church address then full IC and TC then light relig vocals, some QRM - # JB 26/1 16191 0835 PERU, R Union good in Spanish — IC 9/1 16190 1000 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostl news, used to be on 6045 - # JB 31/1 16190 1215 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/61 16190 1215 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/61 16190 1215 GHINA, China Huayi Broadcasting Co. good in Chinese witrh pop music, FA with interviews, ID in EE/Chinese "FM 107.1 China Huayi Broadcasting Corp" — KVB 6/1 1620 17ALY, IRRS with EE peace prgm complaining about US Patriot Act, ID at 2100 then into Italian relig prgm - # JB 18/1 1621 2020 2050 ITALY, IRRS with EE peace prgm complaining about US Patriot Act, ID at 2100 then into Italian relig prgm - # JB 18/1 16220 2050 ITALY, IRRS with EE peace prgm compl	5065	1126	
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on // 9715 — KAB 15/1 BRAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, religital talk in Spanish, some HJ music good but QRM - # JB Ω BRAZIL, R Inconfidencia good in Portuguese — IC 8/1 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/ MOROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 MOROCCO, R Sawa v good in Arabic — IC 9/1 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 GERMANY, Bayerischer Rundfunk v good in German — IC 9/1 LIBERIA, R Liberia Intl relig prgm until 0740 then church address then full IC and TC then light relig vocals, some QRM - # JB 26/1 BERIA, R Liberia Intl relig vocals, some QRM - # JB 26/1 PERU, R Union good in Spanish — IC 9/1 SIERRA LEONE R UNAMSIL with prgm of regional music, with announcement and dedications, ID 0325, EE mixed with vernac - # RAD 17/1 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostl news, used to be on 6045 - # JB 31/1 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/ CHINA, China Huayi Broadcasting Co. good in Chinese witrh pop music, FA with interviews, ID in EE/Chinese "FM 107.1 China Huayi Broadcasting Corp" — KVB 6/1 TALY, IRRS with EE peace prgm complaining about US Patriot Act, ID at 2100 then into Italian relig prgm - # JB 18/1 PIRATE (Euro) Reflections Europe with relig prgm until ID at close at 2335 - # RAD 22/12 CANARY IS, Full Gospel Las Palmas Church on USB in Korean with sermon and relig vocals, v strong signal - # RAD 27/12	5075		
 BRAZIL, R Senado v good in Portuguese (like a local) — IC 9/1 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, religitalk in Spanish, some HJ music good but QRM - # JB Ω BRAZIL, R Inconfidencia good in Portuguese — IC 8/1 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/ MOROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 MOROCCO, R Sawa v good in Arabic — IC 9/1 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 BRAZIL, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 UBERIA, R Liberia Intl relig prgm until 0740 then church address then full IC and TC then light relig vocals, some QRM - # JB 26/1 PERU, R Union good in Spanish — IC 9/1 SIERRA LEONE R UNAMSIL with prgm of regional music, with announcement and dedications, ID 0325, EE mixed with vernac - # RAD 17/1 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostl news, used to be on 6045 - # JB 31/1 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/6185 O940 CHINA, China Huayi Broadcasting Co. good in Chinese with pop music, FA with interviews, ID in EE/Chinese "FM 107.1 China Huayi Broadcasting Corp" — KVB 6/1 ITALY, IRRS with EE peace prgm complaining about US Patriot Act, ID at 2100 then into Italian relig prgm - # JB 18/1 PIRATE (Euro) Reflections Europe with relig prgm until ID at close at 2335 - # RAD 22/12 CANARY IS, Full Gospel Las Palmas Church on USB in Korean with sermon and relig vocals, v strong signal - # RAD 27/12 	39/3	1200	
 COLOMBIA, La Voice de tu Conciencia , no ID but sounded like them, religitalk in Spanish, some HJ music good but QRM - # JB Ω BRAZIL, R Inconfidencia good in Portuguese — IC 8/1 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/ MOROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 MOROCCO, R Sawa v good in Arabic — IC 9/1 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 BRAZIL, R Tupi/Universo good in Portuguese with relig prgm — IC 9/1 CERMANY, Bayerischer Rundfunk v good in German — IC 9/1 LIBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 LIBERIA, R Liberia Intl relig prgm until 0740 then church address then full IE and TC then light relig vocals, some QRM - # JB 26/1 PERU, R Union good in Spanish — IC 9/1 SIERRA LEONE R UNAMSIL with prgm of regional music, with announcement and dedications, ID 0325, EE mixed with vernac - # RAD 17/1 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostl news, used to be on 6045 - # JB 31/1 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/6185 O940 CHINA, China Huayi Broadcasting Co. good in Chinese witrh pop music, FA with interviews, ID in EE/Chinese "FM 107.1 China Huayi Broadcasting Corp" — KVB 6/1 ITALY, IRRS with EE peace prgm complaining about US Patriot Act, ID at 2100 then into Italian relig prgm - # JB 18/1 PIRATE (Euro) Reflections Europe with relig prgm until ID at close at 2335 - # RAD 22/15 CANARY IS, Full Gospel Las Palmas Church on USB in Korean with sermon and relig vocals, v strong signal - # RAD 27/12 	F000	0040	
talk in Spanish, some HJ music good but QRM - # JB Ω 8000 BRAZIL, R Inconfidencia good in Portuguese — IC 8/1 8000 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 1200 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/ 8000 MROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 8000 MROCCO, R Sawa v good in Arabic — IC 9/1 8000 MROCCO, R Sawa v good in Portuguese with relig prgm — IC 9/1 8000 GERMANY, Bayerischer Rundfunk v good in German — IC 9/1 8000 LIBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 8010 UIBERIA, R Liberia Intl relig prgm until 0740 then church address then full IC and TC then light relig vocals, some QRM - # JB 26/1 8010 PERU, R Union good in Spanish — IC 9/1 8011 SIERRA LEONE R UNAMSIL with prgm of regional music, with announcement and dedications, ID 0325, EE mixed with vernac - # RAD 17/1 8010 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostl news, used to be on 6045 - # JB 31/1 8010 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/6185 8010 CHINA, China Huayi Broadcasting Co. good in Chinese with pop music, FA with interviews, ID in EE/Chinese "FM 107.1 China Huayi Broadcasting Corp" — KVB 6/1 8010 ITALY, IRRS with EE peace prgm complaining about US Patriot Act, ID at 2100 then into Italian relig prgm - # JB 18/1 8010 PIRATE (Euro) Reflections Europe with relig prgm until ID at close at 2335 - # RAD 22/12 CANARY IS, Full Gospel Las Palmas Church on USB in Korean with sermon and relig vocals, v strong signal - # RAD 27/12			
BRAZIL, R Inconfidencia good in Portuguese — IC 8/1 BRAZIL, R Gaucha fair in Portuguese — IC 9/1 AUSTRALIA, R Australia good in EE with latest cricket news and ID — KAB 15/ MOROCCO VOA with On the Line prgm talking about student protests in Iran, poor // 13710 — SMF 26/1 MOROCCO, R Sawa v good in Arabic — IC 9/1 6045 0820 MOROCCO, R Sawa v good in Portuguese with relig prgm — IC 9/1 6085 0830 GERMANY, Bayerischer Rundfunk v good in German — IC 9/1 6100 0610 LIBERIA, R Liberia Intl bloodshed on Cote D'ivoire and firm ID — DN 20/1 0725 LIBERIA, R Liberia Intl relig prgm until 0740 then church address then full IC and TC then light relig vocals, some QRM - # JB 26/1 6139.1 0307 SIERRA LEONE R UNAMSIL with prgm of regional music, with announcement and dedications, ID 0325, EE mixed with vernac - # RAD 17/1 6140.6 1000 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostl news, used to be on 6045 - # JB 31/1 6150 1215 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/ 6185 0940 CHINA, China Huayi Broadcasting Co. good in Chinese witrh pop music, FA with interviews, ID in EE/Chinese "FM 107.1 China Huayi Broadcasting Corp" — KVB 6/1 ITALY, IRRS with EE peace prgm complaining about US Patriot Act, ID at 2100 then into Italian relig prgm - # JB 18/1 PIRATE (Euro) Reflections Europe with relig prgm until ID at close at 2335 - # RAD 22/1: CANARY IS, Full Gospel Las Palmas Church on USB in Korean with sermor	6009.8	0845	
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UBERIA, R Liberia Intl relig prgm until 0740 then church address then full IE and TC then light relig vocals, some QRM - # JB 26/1 PERU, R Union good in Spanish — IC 9/1 SIERRA LEONE R UNAMSIL with prgm of regional music, with announcement and dedications, ID 0325, EE mixed with vernac - # RAD 17/1 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostl news, used to be on 6045 - # JB 31/1 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/6185 O940 CHINA, China Huayi Broadcasting Co. good in Chinese witrh pop music, FA with interviews, ID in EE/Chinese "FM 107.1 China Huayi Broadcasting Corp" — KVB 6/1 ITALY, IRRS with EE peace prgm complaining about US Patriot Act, ID at 2100 then into Italian relig prgm - # JB 18/1 PIRATE (Euro) Reflections Europe with relig prgm until ID at close at 2335 - # RAD 22/15 CANARY IS, Full Gospel Las Palmas Church on USB in Korean with sermon and relig vocals, v strong signal - # RAD 27/12	6085	0830	GERMANY, Bayerischer Rundfunk v good in German — IC 9/1
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and TC then light relig vocals, some QRM - # JB 26/1 PERU, R Union good in Spanish — IC 9/1 SIERRA LEONE R UNAMSIL with prgm of regional music, with announcement and dedications, ID 0325, EE mixed with vernac - # RAD 17/1 COLOMBIA, R Melodia with ID with call letters and freqs. V good with mostl news, used to be on 6045 - # JB 31/1 SINGAPORE, R Singapore Intl fair in EE with comment on Iraq, some QRM — KAB 15/ CHINA, China Huayi Broadcasting Co. good in Chinese witrh pop music, FA with interviews, ID in EE/Chinese "FM 107.1 China Huayi Broadcasting Corp" — KVB 6/1 ITALY, IRRS with EE peace prgm complaining about US Patriot Act, ID at 2100 then into Italian relig prgm - # JB 18/1 PIRATE (Euro) Reflections Europe with relig prgm until ID at close at 2335 - # RAD 22/15 CANARY IS, Full Gospel Las Palmas Church on USB in Korean with sermon and relig vocals, v strong signal - # RAD 27/12		0725	LIBERIA, R Liberia Intl relig prgm until 0740 then church address then full ID
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6715 2252 CANARY IS, Full Gospel Las Palmas Church on USB in Korean with sermon and relig vocals, v strong signal - # RAD 27/12			
and relig vocals, v strong signal - # RAD 27/12	6295		PIRATE (Euro) Reflections Europe with relig prgm until ID at close at 2335 - # RAD 22/12
	6715	2252	CANARY IS, Full Gospel Las Palmas Church on USB in Korean with sermon
NEW ZEALAND DX TIMES PAGE 4 FEBRUARY 2003			and relig vocals, v strong signal - # RAD 27/12
	NEW Z	EALAND	

	2255	CANARY IS, Full Gospel Church on USB with usual Korean church service, poor - # JB 25/1
6950	2330	PIRATE, Undercover Radio with ID and QSL address, Billy Idol selection - # RAD 31/12
7120	0332	CLANDESTINE, R Voice of the People with EE talk about elections, tribal vocals with ID 0353, fair - # RAD 13/1
7125	0403	MOLDOVA, V of Russia fair to strong with news in EE // 7180 — CC Ω
7130	1215	TAIWAN, RTI good in EE with ID then Taiwan Today — KAB 15/1
7180	0530	MOLDOVA, V of Russia fair in EE with Time Line // 12010, 12020 — SMF 25/1
7285	0400	GERMANY, V of Croatia fair with ID and station announcements in EE — CC 19/1
7445	0745	COSTA RICA RFPI with EE talk about training broadcasters, ID 0747 — CC 1/1
	1100	TAIWAN, R Taipei Intl s/on in EE then Taipei Magazine , good — RFK 16/1
7465	1830	RUSSIA, RVI v good in EE with news , Greek PM to chair EU — RFK 13/1
7470	1728	CLANDESTINE, R Barabari vis Lithuania with closing discussion in Persian,
		off at 1732 with ID, poor - # RAD 23/12

Logging of the month

is by **Kelvin Brayshaw** for R La Cruz del Sur, BOLIVIA, on 4877 at 1000 Watts non directional. My thanks to all the contributors, with a good variety of loggings.

A useful program to keep loggings in order and accessible for future reference is obtainable from www.qsl.net/kc7bun/. I have downloaded this freeware and find it very useful.(from Hardcore DX).

73's, Ken Baird

CONTRIBUTORS FOR THIS MONTH

CC - Cliff Couch, Paraparaumu, ATS 803A, 60m horizontal loop, 4 band dipole: DN — David Norrie, Auckland, AOR 7030, 300m wire then 50m wire on they ground at Coromandel Peninsula: IC — Ian Cattermole, Blenheim, JRC NRD 535, T2FD and Alpha Delta antennas: JB — Jerry Berg, Lexington, MA, USA, R8, 165ft longwire: KAB - Ken Baird, Christchurch, R5000, Drake SW2, 15m wire, SW Eavesdropper: KVB — Kelvin Brayshaw, Levin, FRG-7, ICF-2001, 64m horizontal Loop: RAD — Richard D'Angelo Wyomissing USA, R8B, Lowe HF 150, Alpha Delta sloper, RF Systems mini windom, Datong FL3, JPS ANC4: RFK - Ron Killick, Christchurch, Sony ICF 6800W, 40m long wire: SMF — Stu Forsyth, Wellington, AOR 7030 with 18m sloper, DR28 and loop, Sony ICF 6800W on whip antenna.

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bandwatch.over9@radiodx.com

Compiled by Andy McQueen, Brightwater

Hello from Brightwater, where there have been many changes like nearly all the dairy farms being converted into vineyards. Hop paddocks are been reduced as well So will we be drowned in a lake of wine in a few years?

A highlight this month is the number of Brazilian stations heard

Please note that although we are in Daylight Saving Time all times given are UTC.

KHZ	TIME	COUNTRY STATION & PGM DETAILS INITIALS
9445	2035	INDIA AIR good in EE with item on Kingdom of Nepal 6/2 AMQ
9470	2000	GERMANY IBRA Radio Opening transmission but severe QRM from VORWS 29/1 IC
9510	1709	OMAN BBCWS Good in EE with Nx of oil clean up on French Coast Id at 1713 4/1 KVB
9575	0655	MORROCO R Medi Un Good signal with EE pops and AA NX Id in FF at 0700 30/1 KVB
9755	2124	INDIA AIR Fair in EE Debate and Nx NZ cricket team refuses to play in Kenya Id at 2200 31/1 KVB
9560	1624	ETHIOPIA R Ethiopia Fair in EE with local singing & drumming Id and Nx at
0/15	0000	1630 some Noise 16/1 CC
9615	0830	BRAZILR Cultura Sao Paulo Good with classical violin Mx Id at 0858 with website address
9625	0904	BRAZIL R Aparecida Good in PP mainly talk amongst Nx reports 2/2 AMQ
9660	1953	VATICAN CITY Vatican Radio Good in EE with African Panorama 5/2 AMQ
9665	0647	BRAZIL R Nacional. de Amazonia Fair in PP Id 0700 then News Co-channel
		QRM from Asian Station some days 12/1 BDC
	0630	Powerful with PP talk pgm Big Id at 0700 // 11780 not as strong 6180 not heard 12/1 JB#
9680	2003	SPAIN REE Excellent in EE with News 6/2 AMQ
9720	1830	TUNISIA RTV Tunisene V/good in Arabic 29/1 IC
9725	0948	Unknown Location R Liberty Fair in RR with phone in pgm Id at 1000 Id @ 20/1 KVB
9735	0315	GT BRITAIN Wales Radio Fair in EE with yachtswoman interview ld at 0319
		Noisy background 25/1 CC
		(So is Wales going to challenge for the next America's Cup ?? - Ed)
9740	1530	SINGAPORE BBCWS Good in EE with the John Peel Music show (Is he the
		same guy off that old Avengers TV Show? 18/1 AMQ
9745	1935	ITALY RAI Int. Fair opening in EE with Id 13/1 CC
9755	0656	PORTUGAL RDP Excellent in PP with S/on details to News at 0700 for 5
		minutes then Portuguese music to compliment a good port 27/1 RFK
9760	1905	GREECE VOA Good in EE with News Now pgm 26/1 SMF
9840	1335	USA WHRI Good in EE with gospel pgm 25/1 AMQ
9885	0740	GERMANY SRI Julich relay Good in EE with item on Swiss cyclist and Mx //
		13790 also good 26/1 SMF
11600	1530	SEYCHELLES FEBA Good in EE with religious pgm from American preacher 26/1 CC
11615	1729	FRANCE RFI Good in EE S/off in EE with web address 21/1 AMQ
11625	0640	VATICAN CITY Vatican Radio Fair in EE with African Service //13765 and 15570

	The bizarre thing is I heard them Very clear on a harmonic at 4813 presumed but cant work out harmonic of what 2/2 SMF (Now if you want to see some really bizarre things then come to Nelson especially during the Wearable
1810	Arts Awards week- Ed) MADAGASCAR R Nederland relay Good in EE with explanation of Hip Hop Music and giving examples (a good pgm to educate Stu Forsyth) Nx at 1830 19/1 AMQ
0706	NEW ZEALAND RNZI Good at S/on 2/2 SMF
1757	AUSTRALIA Voice Int. Good in EE with Modern gospel Mx Some QRM after 1800 21/1 AMQ
1630	JORDAN R Jordan Fair signal with Non stop Music then Nx in EE at 1700 ld at 1712 Some QRM 26/1 CC
2018	GUAM KSDA Strong in EE with item on history of 'Lilly Marlene' and Paul Ormandy on 'Wavescan' 26/1 CC
1700	GERMANY Farda radio Lampertheim V/Good in Farsi 23/1 IC
1052	AUSTRALIA HCJB Kununurra Fair in EE (Freq now changed see below Ed) 26/1 JB#
0657	Good at s/on in special EE by 0730 strength OK but dominated by Finland and totally useless by 0750 5/1 RFK
0907	Fair in EE with World News Id at 0911 Some QRM 11/1 CC
0652	AUSTRALIA HCJB Kununurra Fair with Id in EE Good signal by 0730 BDC
0828	V/good in EE with test transmission of Instrumental Mx with some interruptions in transmissions 5/2 AMQ
1030	Bare signal but no useable audio 2/2 JB#
0931	BRAZIL R Guaiba Fair/good in PP with talk Mx and ads Id 0931 20/1 KVB
0330	ITALY RAI Int. Fair in SS with female vocalist Off at 0335 // 12030 the same Some QRN 25/1 CC
0820	BRAZIL R Brasil Central Fair in PP with Local singing Some Noise // 4895 weak & noisy 2/1 CC
0924	BRAZIL R Anhanguera Fair in PP Phone in talk pgm with ads frequent Ids 20/1 KVB
0345	COSTA RICA REE Fair in SS with interviews and classical Music // 11815 clearer 20/1 KVB
1430	PHILIPPINES VOA Relay good with EE/CC lessons IBB website address and S/off 1459 22/1 AMQ
1735	JAPAN NHK/R Japan Good in EE with 44 minutes pgm 8/2 AMQ
0523	NETH ANTILLIES RVI Bonaire relay Fair in EE with Song then S/off 3/2 AMQ
0525	FRANCE RFI Good in E with Item on World Cup Cricket security
1435	PHILIPPINES VOA Relay Fair with Nx in Special EE 4/2 AMQ
1004	VIETNAM V Of Vietnam Fair/good in EE with News of anti Iraq war demos ID 1010 KVB
0256	ECUADOR HCJB Good in EE with 'Walking in Sunshine' pgm At 0329 pgm address given is Flat rock Eire I wonder if they have any cowboys? 5/1 RFK
1520	MADAGASCAR R Nederland Good in EE with talk on Anne Frank // 15595 weaker 26/1 CC
1300	NTH MARIANAS ISLANDS KFBS V/good in VV Id at S/on 11/1 IC
0730	BULGARIA R Bulgaria V/good in EE with S/on with News and New Years
	Music 13/1 RFK (Did you have a good Bulgarian red wine to compliment
'ENLAND	DY TIMES DAGE 7 FERRI IAPY 2003

		Max 24 Degrees (Here in Brighiwaier ine lemp is now 28 degrees and
10710	10.45	even my wife agrees it is too hot to mow the lawns!!) 24/1 AMQ
13710	1845	THAILAND VOA relay good in EE with 'On the line pgm about student
		protests in Iran // 6040 26/1 SMF
13790	0730	GERMANY SRO relay V/good in EE with Newsmatch mainly about space
		matter and anti matter 27/1 RFK
13800	0840	NORWAY R Denmark Strong in Danish with many refs to Denmark //15705
		similar 2/1 CC
13855	1918	GERMANY Salama Radio Good in EE but deteriorated to very noisy by 2050
		S/off2100 13/1 IC
15120	1715	NIGERIA VON Very good in AA Story read to Music Nx and Id 1730 21/1 KVB
15140	1929	IRAN VOIRIB Fair in EE with Id & announcements // 11695 the same 13/1 CC
15240	1900	MOROCCO VOA RELAY Good in EE with 'Hip Hop Connection pgm Lots of
		Mx but not my cup of tea 26/1 SMF (I'm sure your students will be able to
		explain it to you!! - Ed)
15285	2245	USA WSHB Fair in EE with religious pgm A little noisy 9/1 CC
15290	0822	Unknown Location R Farda Good in Farsi? with upbeat ethnic Mx Id 0823
		Off 0829 19/1 KVB
15325	2034	ASCENSION ISLAND RCI relay Good in FF with comments on Bush & Iraq Id
		2036 20/1 KVB
15335	1500	GABON NHK/R Japan Good in EE with s./on and News then item on
		Cambodia in '44 Minutes'23/1 RFK
	1730	V/good in EE Item on Income gap between Rural & Urban workers in China 20/1 AMQ
15340	0627	NEW ZEALAND RNZI Only fair in EE with 'Pacific Business then Mx 2/2 SMF
15395	1715	NTH MARRIANAS ISLANDS VOA Tinan Good in EE with Talk to America phone
10070	17 13	in show 20/1 AMQ
15410	1400	GT BRITAIN Farda Radio Wooferton V/god in Farsi 21/1 IC
15420	1800	SOUTH AFRICA BBCWS Good with Nx in EE 9/2 AMQ
15465	2331	PHILIPPINES FEBC Fair in Asian language but hard to hear due to echoes Id
		2332 24/1 KVB
15470	0300	SRI LANKA R Dnezhyna Turkmen via RFE/RL transmittre Good in Turkmen EE
		and ethnic Music Id 0307 // 17865 with echo and lagging 7/1 KVB
15485	2308	NTH MARIANAS ISLANDS R Free Asia Good in Asian language with Nx and
		Mx some in EE Web address at 2327 Off at 2330 24/1 KVB
15565	1600	THAILAND BBCWS Good in EE with Outlook pgm 7/2 AMQ
15605	1615	FRANCE RFI Good in EE with Item on Zimbabwe hosting World Cup Cricket AMQ 21/1
15680	1430	GERMANY Gospel for Asia Good in Hindi // 15425 30/1 & 2/2 IC
15760	0845	ISRAEL Kol Israel Fair in Hebrew with talk pgm // 17535 weaker and noisy 2/1 CC
15820	0950	ARGENTINA La Red MW 910 Fair in USB mode SS talk pgm 11/1 JB#
17505	1440	SWEDEN R Sweden God in EE with the following annot "Your listening to
., 500		Radio Sweden. We are having technical difficulties and are working on the
		problem" Then more ABBA Mx - The signal was fine so the computer was
NICIA!	7ΕΛΙΛΝΙΌ	
INEVV Z	LEALAND	DX TIMES PAGE 8 FEBRUARY 2003

CANADA RCI Good in EE Weekends only at this time // 17710 under CC stn

UNITED ARAB EMIRATES R Dubai Good in EE with Nx and Weather for Dubai

Max 24 Degrees (Here in Brightwater the Temp is now 28 degrees and

the music? - Ed)

QRM 25/1 AMQ

13655

13675

1410

0330

		out ??? 25/1 AMQ
17560	0115	JAPAN NHK/R Japan Good in EE with Hello from Tokyo better in // 17845
		Separate pgm on 17685 and 17835 3/2 AMQ
17655	0605	RUSSIA VOEWS Poor in EE with News & Focus on Asia & Pacific //17665
		good 21790 Fair 25/1 SMF
17690	1420	TURKEY VOT Good signal in EE but bad modulation 25/1 AMQ
17780	0512	HAWAII KWHR V/good in EE with Country gospel Mx 3/2 AMQ
17870	1810	SOUTH AFRICA Channel Africa Good in EE with Nx of World Cup Cricket 8/2 AMQ
21455	0400	ECUADOR HCJB Fair in EE with Gospel pgm 3/2 AMQ
21505	0857	SAUDI ARABIA BKSA Strng in Arabic with chanting // 21705 the same 2/1
		CC (Not to good if you have a New years day hangover? -Ed)
21840	0752	GERMANY D/Welle Good in German with talk pgm // 9690, 11795,11865,
		21640 stronger 1/1 CC
21780	0505	Nth MARIANAS R Australia Tinan relay Good in Indonesian with Nx and Id 3/2 AMQ
25700	1100	GERMANY D/Welle Nauen Excellent with S/on in GG but some days rapidly
		deteriorates 18/1 RFK

Thanks very much to all contributors for this month. Stations reported are indicated by the contributors initials underlined in Bold eg: <u>AMQ</u> The use of the # symbol is to indicate station reported outside of New Zealand.

Logging Competition The winning logging is 9560 khz R Ethiopia submitted by Cliff Couch

Last months special question was

Has anybody received a QSL from All India Radio and what address works either email or post?

Please advise if you have any recent success

Well there was no positive responses One member said he sent IRC's postcards etc .He also wrote c/- Indian Embassy on AIR report forms and yet still no replies. Its not looking good!!! They used to have a listeners letters pgm called 'Sincerely Yours' I wrote to that address once and still never got a reply

This months question

Why does Fish N' Chips taste so much better when eaten by the Sea?

I even know of one member who travels all the way from an inland town to Foxton for his meal

Late News

British Forces Broadcasting Service is relaying BBC Home Service pgm Radio 4 on shortwave to Persian Gulf area on 13720 kHz 0200 to past 0400 and 5945 kHz 1530 to 1800 UTC There may well be other frequencies in use as the Invasion of Iraq looms

73's

Andy McQueen

SHORTWAVE EXCHANGE

AMQ Andy McQueen Brightwater Sony 7600 and 1 m telescopic whip / **BDC** Bryan Clark Mission Bay Auckland AOR 7030+ And Alpha Delta Sloper / **CC** Cliff Couch Paraparaumu Sangean ATS 803A with 60m horizontal loop/ & 4 band dipole/ **IC** Ian Catermole Blenheim JRC NRD 535 T2FD and Alpha Delta antennae/ JB Jerry Berg Lexington MA USA Drake R8 and 130 ft longwire plus 19 & 90 m dipoles **KVB** Kelvin Brayshaw Levin FRG-7 & Collins 51J4 and HF loop shortwave antenna tuner box ./ **RFK** Ron Killick Christchurch Sony 6800 & 40m long wire SMF Stuart Forsyth Mapuia Wellington AOR7030 & 18m sloper DR 28, and Sony 6800W

CONTINENT LISTINGS

JUST A REMINDER THAT THE CONTINENTS LISTING WILL BE IN NEXT MONTHS
EDITION of the NZ DX Times
I would appreciate an update from Members

the featured Continent is the home of the Latins ie **South America**

Andy McQueen

branch.news@radiodx.com Compiled by Chief Editor, Wellington



AUCKLAND

The 26 January meeting had 13 present at the Clubrooms, chaired by Yuri Muzyka.

Welcome Bob Voorburgh a past member (this time as a visitor) from Mangawhai who has moved back to Howick. Bob remembers a Waipu Cove DXpedition where he enjoyed a chocolate cake John Watson brought round after a nearby RSA visit.

Also welcomimg member Colin Campbell visiting again from Hamilton. David Crozier mentioned Doug Morris' book (AUCKLAND RADIO - Alpha & Omega) available for \$30 to NZ Vintage Radio Society members. A run of 300 copies is down to 10 available at the time of this meeting. A book review in the NZVRS Bulletin (Feb 2003) says "...this book covers the history of Auckland Radio from 1912 when a spark transmitter and crystal receiver was installed in the Central Post Office building at the bottom of Queen Street until 1993 when the service, then operated from the handsome Musick memorial building, was closed down". Barry Williams reports Deutsche Welle might be dropping their English shortwave broadcasts.

Phil van de Paverd reports a BCL news item states that HCJB was going to transmit from Australia today (26 January) but delayed until 2 February. Phil is after a mini pre-amp for

Branch news continued page 16

shortwave.report@radiodx.com

Compiled by Ian Cattermole, Blenheim

AFGHANISTAN:

Afghan Radio chief eager to start up foreign broadcasts again
The correspondent of the daily [Arman-e Melli] has interviewed Esteemed Shams Rad, the head of foreign broadcasting of the radio [Afghanistan], which is as follows:

With regards to the radio's foreign broadcasts that have long been in abeyance he said: Sixty-five years ago, Radio Afghanistan started a programme broadcasting news and political issues in English, Urdu, Russian, German, French and Arabic. There were eight presenters and translators who prepared programmes for foreigners and those interested in foreign languages inside Afghanistan. Foreign broadcasting has completely ceased operating for the last year and a half. A bomb targeted the short-wave broadcasting unit and still no step has been taken to reactivate it. Seeing the rising demand of local and foreign listeners for those programmes, we hope that the authorities will take steps to coordinate with friendly countries to restore this section of the radio. (RN NEWS MEDIA)

AUSTRALIA:

HCJB Australia. Currently broadcasting a Pacific service on 11755khz from 0700-1200. From February 2nd an Asian service will be introduced on 15480khz from 1230-1730utc. HCJB Australia advise that they will accept e-mail reports to> english@hcjb.org.au Postal address is HCJB Australia, P.O. Box 291, Kilsyth, Vic.3137. (HCJB AUSTRALIA)

BELARUS:

Lots of action in Belarus radio

Here's the fresh info, mostly gathered by phone from various Belarussian broadcasting centres.

Kalodziczy

Starting 3 January, 6115 kHz has been reactivated, 75 kW, 252 deg.

7210 kHz only carries the foreign service, relaying of domestic broadcasting (BR1) is not planned at present time.

6080 kHz, 150 kW tx, signal beamed to Ukraine.

Relay of BR1 for Western Europe, with 150 kW power goes out according the following schedule:

0500 - 0700 7170 kHz. 1000 - 1200 11960 kHz

1400 - 1700 7105 kHz (including a regional insertion, see below)

1700 - 1800 7255 kHz. 2000 - 2200 7105 kHz

Each oblast of Belarus has its own day of the week (Mo-Fr), when its regional broadcast is inserted into the above relay on 7105 kHz. Time is 1600-1640 (some days till 1700).

Hrodna

morning program from Hrodna studios is again available in SW Low-power shortwave transmitters in Hrodna are again active according to full schedule, i.e. 0400-2300. Local programs go on the air twice a day, the remaining time is used for BR1 relay. Frequencies are 6040 and 7110. During some latest months both transmitters were on only after 1600. (HCDX)

CIS COUNTRIES:

Foreign relay via short wave transmitters of the countries of CIS

Armenia

5855 1655-1840 100 TWR. 6240 1200-1215 100 TWR. 7475 1400-1500 100 RFA
7550 2300-2400 500 RFA. 7560 0100-0300 500 RFA. 9365* 1100-1400 500 RFA
9920* 1400-1600 500 RFA. 11520** 1400-1600 500 RFA. 11590** 1100-1400 500 RFA
11790 1400-1500 100 VOA. 17540 0600-0700 500 RFA

Moldova

7460 0230-0315 500 RPD. 7480 1800-1845 500 RPD. 11530 1300-1700 500 MSP

Kazakhstan

5905 1430-1530 200 DVB. 7530 2230-2330 200 RFA. 7550 1300-1400 200 RFA 9355 1630-1700 Tue, Fri 200 VOO. 9490 2330-2430 200 RFA. 11510 1230-1330 200 RFA 11535 1400-1500 200 RFA. 11570 0030-0130 200 RFA. 13830 0000-0100 200 RFA

19m*** 1215-1300 100 VOT

Taiikistan

4760 1630-1700 100 RFE. 4760 0100-0200 100 RFE. 5035 0200-0300 100 RFE. 6035 1600-1630 100 RFI 7415 2300-2400 200 RFA. 6160 0200-0300 100 RFE. 7470* 0100-0300 200 RFA. 7485 0100-0200 200 RFA. 7515 2330-0030 200 RFA. 7515 1600-1700 200 RFA 7540 2300-2400 500 RFA. 7540 1500-2200 500 RFA. 9365 0100-0200 200 RFA. 9365 1400-1500 200 RFA. 15660** 0100-0300 200 RFA. 11540 1100-1400 200 RFA. 17525 0300-0700 500 RFA. 17515 0600-0700 200 RFA.

4995 1500-1700 100 RFE 6150 1900-2000 100 RFE 7455 1800-2100 500 RFA 7495 1500-1600 200 RFA 7530 1600-1700 200 RFA 9355 1300-1400 200 RFA 11535 0030-0130 200 RFA 17495 0300-0700 500 RFA 19m*** 1215-1300 100 VOT

Uzhekistan

6210 1710-1740 100 VAT. 7375 0200-0230 200 BBC. 7430 1500-1530 200 BBC. 9445 2315-0200 200 TWR. 11850 0100-0300 100 VIN. 12070 1330-1625 100 RNW. 15675 0500-1300 200 MSP. 21780 0800-0830 200 BBC. 25m*** 1430-1515 100 VOT.

7430 1330-1445 200 BBC 9445 1130-1630 200 TWR 12070 0100-0200 Fri 200 HLR 17690 1200-1230 100 RVI 13m*** 1215-1300 100 VOT

BBC = British Broadcasting Corporation.

DVB = Democratic Voice of Burm

HLR = Hmong Lao Radio.

MSP = Voice of Mesopotamia

RFA = Radio Free Asia. RFE = Radio Free Europe / Radio Liberty

RFI = Radio France Internationale. RNW = Radio Nederland Wereldomroep RPD = Radio Payam-e Doost. RVI = Radio Vlaanderen Internationaal

TWR = Trans World Radio. VAT = Radio Vaticana VIN = Voice International. VOA = Voice of America VOO = Voice of Orthodoxy. VOT = Voice of Tibet

VOA = VOICE of America VOO = VOICE of Orthodoxy. VO1 = VOICE of Tibet (RUS DX via CUMBRE)

15680 1100-1200 200 RFA.

GERMANY:

DW-Radio's English Service will experience the biggest facelift in its 40 year history with the start of summer time at the end of March 2003.

We plan to increase substantially the number of news bulletins we broadcast every day from 13 to 24. News on the hour every hour is a must for any radio service that wants to be taken seriously internationally and in future DW-Radio News24/7 will be our visiting card. We also plan to broadcast Newslink, our flagship current affairs programme, round the clock producing special editions tailored to meet the requirements of audiences in the respective target regions. This means there will be three live editions of Newslink for the Asia-Pacific Region, two for Africa, with repeats, two for North America and two for Europe every weekday. In future Newslink will not only highlight top world, European and German stories but will provide a special focus on news and developments in the respective target region. In future we will be able to cover breaking stories faster and in greater depth than ever before.

Changes will also be made to our feature programming with an increased emphasis on rebroadcasting successful programmes such as "Arts on the Air", "Living in Germany", and "Inspired Minds". The same applies to "Money Talks" or our science programme Spectrum". "Africa Kaleidoscope", our weekly programme for and about Africa, will tackle the latest stories and developments. And last but not least there will be two new 30 minute programmes for Asia and Africa: This means that "Development" will finally get a weekly slot and more attention will be being paid to the environment.

In future our team of feature editors will have more time to devote to their successful cooperation with organisations like German Technical Co-operation, the World Wildlife Fund and UNESCO. (RDW)

LATIN CORNER: BOLIVIA:

Radio Difusora Mineria on 5927.1KHZ.

Radio Dif. Mineria has been heard at good level on 5927.1khz around 1000utc. In the US. According to a report on HCDX. This should make it a distinct possibility here in NZ (ED)

COLOMBIA:

Radio Melodía – new on 6140.53 kHz

6140.53 R Melodía, Bogot·, January 31st. international news, sports talks, slogan: "Melodía, la radio lider", ID: "Aquí Bogot·, lider de ... Colombia desde moderno edificio de cristal (?) en la calle de 25, centro de la radio ... AM 730 kilociclos, HJCU onda larga, 11000 vatios de potencia en antena y en la banda internacional de 49 metros, HJQE, 6140 kilociclos, onda corta

Seems to be a local AM-station from Bogot, which additionally opened a sw-outlet. A small sound file with ID (30 KB) is available in the audio clip section of my homepage: http://home.arcor.de/mschnitzer (Michael Schnitzer Hassfurt, Germany viaHCDX)

SEYCHELLES:

FEBA Seychelles to close

FEBA (The Far East Broadcasting Association) is phasing out its shortwave operations from the Seychelles, and will close the station down by the end of 2003. According to a communique from FEBA Radio, "Growing difficulty in maintaining a station, which uses 30-year-old technology, and increased competition from less expensive broadcasting outlets, coupled with the difficulty of broadcasting to India because of difficulties with sunspots in 2003/4/5, indicate that the timing is set for change. It is a different communication world from the one that welcomed the Seychelles station 30 years ago and FEBA is eager to adapt to meet a new generation of listeners. FEBA believes that it is entering an exciting period of challenge and change. We must move with the times if we are to be good stewards of our resources. This strategy means that we can better meet the needs of our listeners in the twenty-first century." Instead of broadcasting from its own transmitters, FEBA will hire airtime on suitable facilities elsewhere. (Radio Netherlands Media Network.)

ZIMBABWE:

SHORTWAVE RADIO AFRICA.

SW Radio Africa is headed by Gerry Jackson, who was sacked by the Zimbabwe Broadcasting Corporation in 1997 for broadcasting telephone calls describing police brutality. She then opened the independent station Capital Radio in Harare in September 2000, The station lasted just six days before being raided and closed down by police. Jackson went into hiding until she left Zimbabwe in November 2001 to set up SW Radio Africa.

The new station immediately angered Zimbabwe's ruling Zanu PF party by giving airtime to opposition spokesmen, something which is generally denied to them by the government-run Zimbawe Broadcasting Corporation. Zimbabwe's Information Minister Jonathan Moyo responded by accusing the BBC of providing Radio SW Africa with studios, transmitters and frequencies. This is probably a reference to the use of a transmitter in Meyerton, South Africa, which is also used by the BBC.

The BBC officially denies any involvement with SW Radio Africa, and British officials are said to be "embarrassed and irritated" by the existence of the station. Nevertheless, on Sunday 17th March at 0915 UTC BBC Radio 4 re-broadcast an interview with Archbishop Desmond Tutu that had originally been broadcast on SW Radio Africa, suggesting that there is some contact between them at editorial level.

In February, Radio SW Africa added new lunchtime transmission transmission to its existing schedule of 3 hours every evening. The station's output is also streamed live on its Web site, and there's an audio archive of previous broadcasts.

Current Schedule:

• 1100-1200 UTC on 11670 kHz (RN NEWS MEDIA)

1600-1900 UTC on 6145 kHz

Anyone Hearing this one here in New Zealand?

FEATURED FREQUENCY

this month is 9595kHz. See which of these you are able to hear and identify.

Time. Station. Country. Days. Language. Power. Site

1600-1700 VOA - Voice of America Germany 1234567 Unknown 100 Lampertheim

1700-1730 Radio Romania International Romania 1234567 TURKISH 50 Tiganesti

1700-1730 Turkish Radio-TV Corp Turkey 1234567 Croatian 250 Emirler

1700-1900 Family Stations, Inc. United States 1234567 Unknown 300 Woofferton

1730-1830 Islamic Republic of Iran Broadcasting Iran (Islamic Rep. of) 1234567 SAWAHILI 500 Kamalabad

1830-1900 Radio Romania International Romania 1234567 SERBIAN 50 Tiganesti

1900-2100 Radio Exterior de Espana Spain 23456 FRENCH/ENG 350 Noblejas

1900-2300 Radio Exterior de Espana Spain 7 ENGLISH 350 Noblejas

2000-2100 Family Stations, Inc. Germany 1234567 Unknown 100 Juelich

2100-2200 Greece Radio International Greece 1234567 Unknown 250 Kavalla

2100-2300 Radio Exterior de Espana Spain 1 FRENCH/ENG 350 Noblejas

shortwave.mailbag@radiodx.com Compiled by Paul Ormandy, Oamaru



Greetings all. Summer is still with us and the lower bands are still relatively dormant. Probably be late February of into March before some semblance of decent DX returns to the dials and I'll certainly be looking.

Ron Killick, Christchurch is first up with some more of what he describes as "pot boilers": HCJB 5965, DW Komsomolsk 17715, Nauen 25740; RDP 17680, AWR Al Dhabbayya 15160. All standard cards. Though pushing that QSL tally ever higher.

Bryan Clark, Auckland has received an emailed QSL for HCJB Kununnurra 11755. Much clearer on new 11770 eh!

Lindsay Robinson, Invercargill has QSLs in from WWCR 12160 & Radio Victoria Peru 9720 with stickers. Don't wear yourself out before Easter now.

lan Cattermole, Blenheim has been busy and making good use of e-mail to verify stations (EM), replies are in from: Radio Sawa. Kavala. 9770. 7280. 11960. Morocco. 11905. (EM); AWR. Meyerton. 11985; IBRA. Juelich. 15120. (EM); Voice of Med. Rome. 9630; Radio Alislah. 9925. (EM); UN Radio. Meyerton. 21535; Radio Farda. IRA. 21475. Kavala. 13680. 17675. 11960. 15290. 12015. 9435, Udorn. 9785, Wofferton. 15410 (EM); WJIE. 7490. (EM), Radio Fana. 6210. 6940. (EM); RDW. Sri Lanka. 12045; RVI. Juelich. 13650, Krasnador. 7465; KFBS. 12120. (EM) & Channel Africa. 17870. And you still find time to play golf 7 days a week.

Jerry Bery, Lexington, MA reports in with QSLs from the following:

AUSTRALIA. 11755, HCJB, nice Word-format E-mail attachment Itr size certificate, photo of Diversion Dam near Kununurra, full data beneath, tho got date and time of my rcpn wrong. Also a para. about their startup, indicating power on Jan 5 was 25 kw–rpts were that it was 13 kw–and will soon be up to 50-75. No V/S, although E-mail msg signed by "Paulos." In a month for E-mail rpt. I also sent a postal rpt with CD and I wonder if there will be a separate reply for that. The photo on the certificate has "HCJB World Radioo Australia" and "The Voice of the Great South land" on it and looks like what could be the front of a QSL. It's up on DXplorer Sight & Sound. (Berg-MA)

ITALY. 6280, IRRS, Milano "Real Teatro" card, full-data, in 3 mos. total for E-mail rpt followed by paper rpt with CD, 2 wks. after E-mail follow-up; also sent a different "Milano city scene" card for E-mail rpt of

recent rcpn of 6220. (Berg-MA)

Paul Ormandy, Oamaru just the one back this month from KSDA3, the new transmitter on Guam, for 15320kHz.

BEST OF THE MONTH

Under 9MHz: Ian Cattermole with Radio Fana, Ethiopia 6210kHz

Over 9MHz: Lindsay Robinson with Radio Victoria, Lima, Peru 9720kHz

BRANCH NEWS continued from page 10

recording from a record player into a computer's sound card.

David Lambourn suggested a Dick Smith Electronics kitset and found two candidate products on their shelf at the *new* New Lynn branch across the road after the meeting! Phil hears a station on 121 kHz AM. Barry Jones says it's Ardmore aerodrome which gives QTH, wind direction, etc. On Christmas Day they cracked Barry up with announcements of "Merry Christmas! HO HO HO!".

David gave an interesting talk on Very Low Frequency (VLF) reception by aid of a computer and sound card using a spectrum analyser program "SpecLab" for Microsoft Windows (there was a DOS based version too). He was inspired by an article in the December 2002 Elektor magazine on how to receive VLF. The software can analyse frequencies and bandwidth of local noise at/around the antenna and actual stations, by aid of a "waterfall" spectrogram. David demonstrated it on his notebook computer and recommends the website http://www.vlf.it/harald/strangerec.htm which provides interesting reading. The February 2003 meeting will be at the Clubrooms, 3000 Great North Road, New Lynn, just past Whau Creek, on the 23rd at 2 PM. The March 2003 meeting is tentatively at the Clubrooms on the 30th at 2 PM. Meetings are on the last Sunday of the month except December.

NORTH OTAGO

The February meeting was held at the Grenfells' residence. There was a good attendance of local members and again Steven Greenyer made the journey from Timaru to attend.

The gathering planned for Easter at Tiwaiwas discussed and three members indicated that they would attend.

Discussion on the future activities of the Branch resulted in changes being made. It was decided that every second month the meeting would be at Waianakaruaand theother meetings would be at members'houses as at present.

Peter Grenfell spokeandplayed a video about the history of Radio Hauraki, the Radio Station which changed the whole face of broadcasting in New Zealand. Peter showed his QSL received after hisreport on the first broadcast from Radio Hauraki on 1st December.1966.

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, thanks. 73 - Yuri ("George") Muzyka, ZL1GYM http://www.linradio.com/sources.htm) (vuri@win.co.nz ***SIGNAL STRENGTHS*** e = Excellent; g = Good; f = Fair; p = Poor.

Time (UTC)	Frequencies (kHz)	Station Name	Station Country	Log Date	DXer Name
0115	17560g:17845	NHK/R Japan	JAPAN	3/2	AMQ
0256-0329	12040g	HCJB .	ECUADOR	5/1	RFK
0315-0319	9735f	Wales Radio	GT BRITIAN	25/1	CC
0330	13675g	R Dubai	UAE	24/1	AMQ
0332-0353	7120f	R Voice of the Pe	ople ?	13/1	RAD
0400	7285f	V of Croatia	CROATIA	19/1	CC
0400	21455f	HCJB	ECUADOR	3/2	AMQ
0403	7125f:7180	V of Russia	RUSSIA	1/2	CC
0512	17780g	KWHR	HAWAII	3/2	AMQ
0523	11985f	RVI	BELGUIM	3/2	AMQ
0525	11995g	RFI	FRANCE	-	?
0530	7180f:12010:1202		RUSSIA	25/1	SMF
0605	17655p:17665g:2	21790f VORWS	RUSSIA	25/1	SMF
0627	15340f	RNZI	NEW ZEALAND	2/2	SMF
0640	11625f:13765:155		VATICAN CITY	2/2	SMF
0652-0730	11770f	HCJB	ECUADOR	-	BDC
0657-0750	11755g	HCJB	ECUADOR	5/1	RFK
0706	11675g	RNZI	NEW ZEALAND	2/2	SMF
0730	13600g	R Bulgaria	BULGARIA	13/1	RFK
0730	13790g	SRO	GERMANY?	27/1	RFK
0740	9885g:13790g	SRI	SWITZERLAND	26/1	SMF
0745-0747	7445	RFPI	COSTA RICA	1/1	CC
0820-0900	3210f	WWCR	USA	20/1	KVB
0828	11770g	HCJB	ECUADOR	5/2	AMQ
0907-0911	11755f	HCJB	ECUADOR	11/1	CC
1004-1010	12020g	V Of Vietnam	VIETNAM	-	KVB
1022-1028	5745g	VOA	USA	5/1	KVB
1052	11755f	HCJB	ECUADOR	26/1	JB
1100	7445g	R Taipei Int	TAIWAN	16/1	RFK
1126-1130	5965g	R Netherlands	NETHERLANDS	22/1	RFK
1200	4940f	SLBC	SRI LANKA	15/1	KAB
1200	5975p:9715f	R Tashkent	UZBEKISTAN	15/1	KAB
1200	6020g	R Australia	AUSTRALIA	15/1	KAB
1205	5950g	WYFR	USA	15/1	KAB

1215	6150f	R Singapore Int	SINGAPORE	15/1	KAB
1215	7130g	RTI	TAIWAN	15/1	KAB
1220	3275	R Southern High	landsPNG	15/1	KAB
1220	3365p	R Milne Bay	PNG	15/1	KAB
1220	5965f	R Netherlands	NETHERLANDS	15/1	KAB
1225	4890g	Port Moresby	PNG	15/1	KAB
1335	9840g	WHRI	USA	25/1	AMQ
1410	13655g:17710	RCI	CANADA	25/1	AMQ
1420	17690g	VOT	TURKEY	25/1	AMQ
1430-1459	11930g	VOA	USA	22/1	AMQ
1435	11995f	VOA	USA	4/2	AMQ
1440	17505g	R Sweden	SWEDEN	25/1	AMQ
1500	15335g	NHK/R Japan	JAPAN	23/1	RFK
1520	12080g:15595f	R Nederland	NETHERLANDS	26/1	CC
1530	9740g	BBCWS	UK	18/1	AMQ
1530	11600g	FEBA	SEYCHELLES	26/1	CC
1600	15565g	BBCWS	UK	7/2	AMQ
1615	15605g	RFI	FRANCE	AMQ	21/1
1624-1630	9560f	R Ethiopia	ETHIOPIA	16/1	CC
1630-1712	11690f	R Jordan	JORDAN	26/1	CC
1709-1713	9510g	BBCWS	UK	4/1	KVB
1715	15395g	VOA	USA	20/1	AMQ
1729	11615g	RFI	FRANCE	21/1	AMQ
1730	15335g	NHK/R Japan	JAPAN	20/1	AMQ
1735	11970g	NHK/R Japan	JAPAN	8/2	AMQ
1757-1800	11685g	Voice Int	AUSTRALIA	21/1	AMQ
1800	5955p	V of Viet Nam	AUSTRIA	25/1	RFK
1800	15420g	BBCWS	UK	9/2	AMQ
1810	17870g	Channel Africa	SOUTH AFRICA	8/2	AMQ
1810-1830	11655g	R Nederland	NETHERLANDS	19/1	AMQ
1830	7465g	RVI	BELGUIM	13/1	RFK
1845	6040p:13710g	VOA	USA	26/1	SMF
1900	15240g	VOA	USA	26/1	SMF
1905	9760g	VOA	USA	26/1	SMF
1918-2100	13855g	Salama Radio	GERMANY?	13/1	IC
1929	11695f:15140f	VOIRIB	IRAN	13/1	CC
1935	9745f	RAI Int	ITALY	13/1	CC
1953	9660g	Vatican Radio	VATICAN CITY	5/2	AMQ
2003	9680e	REE	SPAIN	6/2	AMQ
2018	11700e	KSDA	GUAM	26/1	CC
2035	9445g	AIR	INDIA	6/2	AMQ
2050-2100	6220	IRRS	ITALY	18/1	JB
2124-2200	9755f	AIR	INDIA	31/1	KVB
2245	15285f	WSHB	USA	9/1	CC

utilities@radiodx.com Compiled by Evan Murray, Auckland



Aeronautical News

In November DX Times Neville McKenty logged Delta 109 with Stockholm on 18042 kHz. Having no listing for this frequency we enquired of Stockholm who replied that 18042 was used as a supplementary frequency on a no interference basis. (Oakie Schroder, Manager Aero Services, Stockholm Radio) Thule, Greenland (a GHFS station) was decommissioned in January this year and is replaced by US Naval Air Station, Keflavik, Iceland. Frequencies used were 4724, 6739, 8992, 11175, 13200 and 15016 kHz and it is understood that these will continue to be used. (WUN News) Mildenhall, England, presently used by the USAF, will join the USAF Stratcom (WUN News)

Waypoint reporting, using HF Voice, will be on the way out for certain airlines in the near future, and will be replaced by Data Link transmissions (ARINC news)

Point to Point and Maritime News

Civil Defence ZKHQ Wellington conducts radio checks with Northern Zone ZKNT Stations on the frequency of 5389 khz every Wednesday morning starting at 9 am local time. After 5389 checks are completed, usually about 9.15 am local time, ZKHQ changes to 5383 khz and conducts radio checks with Central Zone ZKCT stations.

Civil Defence ZKST Christchurch conducts radio checks with South Island ZKST stations on the frequency of 5407 khz every Thursday morning starting at 10.30 am local time. An additional list of ZKST stations is called on frequency 5386 khz when finished on 5407 khz, usually about 10.45 am local time. (Peter Chambers logging during December/January)

2348 0806	Base Station "Mid Air Space‰ to ZLBF 23. Discussion on siting of new hut and transport logistics. PC
2348 0652	ZLBG 40 and ZLBG 45. Talk of a hut restoration including pouring concrete floor and removing rat infested roofing. Also chain sawing out a tree from
	across the track. PC
2348 1803	GS 23 and GS 24 talking weather. PC
2598 0838	VON "Securite, securite, securite this is St Johns Coastguard radio with
	marine forecasts, ice reports. Closing ID at 0845. PC
3023 0831	DOC stations Antipodes (Antipodes Island) and Wilderness (Fiordland)
	talking about McQuarrie Island and their 0900 sked. PC
3216 0621	Base station to remote station called "Hill Billy‰ arranging vehicle pickup from bush. PC
3324 1012	Navy Auckland to J8C and V1H, coded talk. PC
3336 0755	ST 5 and ST 511 talking track maintenance work. PC
3336 0857	Fiordland DOC stations Wilderness, Renown, Castle, Chalky chatting about hydroponic systems. PC

3336 0737 3336 0752	ZKMM Blenheim to ZKMM 02 at Seddon mobile comparing weather. PC EC Zero 1 and EC 516 comparing rainfalls. PC
3336 1944	ST 515 and ST 517 talking of upcoming trip to Chalky. PC
3345 1910	ZKG 60 Mangaweka field station to ZLJG Wellington reporting on person
	with badly scarred foot who may need evacuation from bush camp. PC
3372 0630	MT Base Taupo to MT 3 advising severe rain and wind. "Bunk up in the hut,
0072 0000	don't tent under the trees. PC
4417 1830	Marine Countess transmitting from Carnley Harbour (Auckland Islands) back
4417 1000	to Bluff Fishermens radio reporting weather and ETA for other Southern islands, Antipodes, Bounty etc. PC
4493 1914	Stephens Island to 2Y 57 "no flying today due to weather. PC
4493 1933	ZLGP Blenheim calling ZLG 014, then Stephens Island calling ZLG 014. No
1170 1700	reply. PC
4619 0815	Antipodes Island to Adams Island. Long conversations most evenings
	between these stations on this channel. Excellent signals. Fiordland DOC
	stations "Codfish, Chalky joining. PC
4619 0830	DOC station Te Kakahu to Dunedin base. General chat. PC
4622 1800	ZLBN 26 to ZLJ 25 discussing state of Otaki river bed, sand levels etc. PC
4622 1757	ZLBN Zero reading out Tararua ranges weather then talking to ZLBN 36. PC
4622 0238	ZLD 14 to Base "Where can we get this tyre fixed, . "At the garage opposite
4022 0200	the office here. PC
4952 0650	Unid station calling Cascade Base sounding quite distressed. "Cascade
4732 0030	Base please answer, please answer. Repeated calls. PC
5254 1915	ZKG 60 to ZKG 60 Base Mangaweka. Discussing scalding of foot, arge
3234 1713	burn blisters having to be lanced before boot could be put on to tramp out.
	Possible evacuation required if unable to walk out. PC
5467 0629	Station called "Scrub Gully giving Kahurangi and Southern Alps mountain
3407 0027	forecast and talking to remote "Condor tramping through the Karamea
	River gorge. PC
5473	DC 28 Nelson, DC 29 Reefton, DC 26 Mobile, DC 27 Nelson, regular daily
3473	traffic between these stations. PC
5505 0613	Shannon Volmet, MJ
5505 0013	Shannon Volmet with Wx for Paris (C de G), Madrid, Lisbon. EM
5547 1036	North West 992/San Francisco. Call on 135.15 at 135 W. MJ
	San Francisco/United 1754. SC JL-GP. EM
5574 0759	
5574 0800	United 939/San Francisco. Report reaching 390. EM
5574 0801	Delta 341/San Francisco. Cleared to block 328-330. EM
5598 0839	Shanwick/Speedbird 216 maintaining 410. EM
5598 0840	Santa Maria/Iberian 660 with posn report. EM
5598 0848	Shanwick/Eva 2156 with posn report. EM
5598 0854	Reach 602Y/Santa Maria. Posn 44N 30 W. SC DQ-BP. EM
5616 0807	Gander/Air France 423. Posn 44N 49W Next 50N 20W. EM
5720 1041	General fish chat in English. MJ
6270	Stations "Charlie One and "Delta Base heard calling each other

unsucc	essfully. S	Strong local signals. PC						
6532 17	00	Korean 823/San Francisco. MJ						
6532 07	′58	Japan Air 772/Tokyo. MJ						
6628 09	80	Portugalia 281/Santa Maria. EM						
6628 06	51	Santa Maria/Nigeria 850. EM						
6628 06	52	Air France 423/Santa Maria. EM						
7740 22	.01	ZKST (Civil Defence Christchurch) to ZKST (Civil Defence Greymouth)						
		comparing signals against channel Alpha 5386 after radio checks. PC						
7848		ZKG 21 Rotorua, ZKG 2001 Feilding and numerous other calls, aero mobile						
		guys in North Island and cross country 4 WD vehicle guys in South Island. PC						
8842 17	37	Unid/Singapore. Contact Ho Chi Minh on 124.5. EM						
8842 17	41 J	apanair 210/Manila. EM						
8855 06	49	Brasilia/Delta 109 with posn. R M						
8855 08	50	Manaus/American 963 calling. EM						
8861 08	59	Irkutsk Volmet in Russian. EM						
8862 08	808	Unit station calliung "CT, CT, EM please come in. MJ						
8867 08	02	NZ 1/San Francisco. Selcal, primary and secondary frequencies. MJ						
8867 09	09	United 816/Auckland requesting FL 320. MJ						
8867 17	29	Polynesian 7009/Auckland. MJ						
8867 10	14	Korean 8824/Auckland. SC JQ-ER. MJ						
8867 20	23	Air Chathams 514 calling Auckland for pre flight check. MJ						
8879 08	30	Gander replying to unid aircraft. MJ						
8906 17	11	Lufthansa 534/Brittania 117A/Reach 710Y/Jetset 328C/Jetset 146C/ Santa						
		Maria with posn reports. Most aircraft en route to Tenerife. MJ						
8942 17	09	Korean 628/Manila. MJ						
8951 07	34	United 896/Tokyo with Selcal. MJ						
8957 07	32	Shannon Volmet. MJ						
9032 10	05	Skier 96/Mac Centre checks Pole One at 1004, block 200/240, looking for						
		Willy Field next at 1030. Endurance 2 hours. JC						
9032 03	348	Ice 33 requests						
7002 00		Pegasus (runway) Wx						
		from Mac Centre, JC						
9032 10	13	Mac Centre clears Skier						
, , , , ,		94 to Willy Field via Pole						
		3, BRAVO track. JC						
9032 10	43	Skier 91/Mac Centre						
		PATRICIA						



9032 10325

checked Kalva 1041, block 200/230, estimating BYRD 1112. 4 hours fuel, -45 1 D4C, wind 818/36, Wx 03. JC

Mac Weather gives expected Christchurch

	requesting Willy Field Wx tor Skier 92. JC
10018 1705	Singapore 339/Bombay. MJ
11300 0624	Lufthansa 8296/Cairo with posn TULOP/DITAR. MJ
11300 0629	Libyan 2735/Cairo to Tripoli flight plan. MJ
11300 0637	Lufthansa 8296/Cairo FL 330. MJ
12290 1948	Vessel PO Nedloyd Coby MYJM 3, weekly HF radio check to VIC RCC
	Australia. Posn 51 D4 53 N 831 D4 36 E "just North of Sri Lanka. PC
12356 1929	Vessel Silver Fox ZMR 5339 to ZLM Taupo requesting Taupo to phone family
	in Auckland to inform them they survived Fiji cyclone and all OK. All phones
	in Savu Savu and surrounding area out of service. PC
13261 0140	French Navy 5252/Auckland with posn report, MJ
13261 0641	San Francisco/Qantas 3. Request 370. EM
13306 0838	VH-EAK/Brisbane with Selcal. MJ

A fine selection of loggings from all contributors and the reappearance of Peter Chambers showing that much of interest can be heard locally with considerable improvement expected in winter.

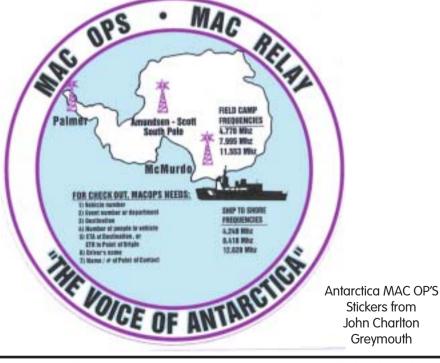
CONTRIBUTORS

PC Peter Chambers, Napier, Drake R8A with inverted Vee dipole.

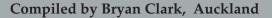
JC John Charlton, Greymouth, Kenwood 5000 with 30 m wire

MJ Mike Jackson, Palmerston North, Kenwood 440S and 13 mhz dipole.

EM Evan Murray, Auckland, Kenwood 5000 with T2FD



adcom.news@radiodx.com





WELCOME TO NEW & REJOINING MEMBERS KINGSLEY BERKAHN, 7 Cremorne Avenue, Palmerston North and ALAN JESSOP, 6 Renall Street, Masterton. Kingsley rejoins our ranks after a short absence. He's signed up for both the paper version and the 'standard electronic version', but comments "all things considered, I think the traditional magazine is likely to be the most practical for me since it can be read anywhere, without technology." Alan is co-owner of 'Sound & Vision Services' in Masterton. He has recently repaired radios for members Mark Nicholls, Stuart Forsyth and Tony King, which sounds like a good advertisement to me!

CHARLES 'GORDON' BENNETT Some readers may recall Gordon as a regular contributor to Adventist World Radio's "Wavescan" DX programme during the 1980s and 90s. Your scribe recalls Gordon's infectious enthusiasm for medium wave DXing being evident from his monthly reports. He also made a valuable contribution with receiver reviews for Lowe and AOR UK, that resulted in modifications to their designs to improve DX capability. British DX Club member Tim Bucknell advises that Gordon died early on 1 February and that "he was a kind generous man who greatly enhanced the lives of everyone he came into contact with." Writing in the February World DX Club 'Contact', well-known UK DXer Mike Barraclough says "Gordon's distinctive voice on the end of a telephone, generosity and good humour will be sadly missed". The DX fraternity worldwide remembers the passing of another of the gentlemen of our great hobby. (via Glenn Hausers DX Listening Digest)

GET WELL MICHAEL In another update from Mike Barraclough, we learn that one of the DX League's UK members **MICHAEL MURRAY** has had a spell in hospital and is now at home convalescing. Michael is best remembered as a long-time former General Secretary of the European DX Council. (Arthur Ward, World DX Club 'Contact' 2/03 via Alan Roe, via Glenn Hauser's DXLD)

QUARTZ HILL UPDATE The former shortwave receiving station for Radio New Zealand has, for the past 6 years, been a "radio playground" for Wellington region hams and DX enthusiasts. The site continues to be a source of challenge and enjoyment for everyone involved - whether it be contesting, working DX, social events, experimenting with antennas, maintenance "challenges" or just being out in the rugged coastal environment. DX highlights from 2002 included LF test transmissions on 137 kHz by Bob ZL2CA and Andrew ZL2BBJ. The most recent tests in the period 27-29 December were received by at least 7 US amateur stations. The challenge is now to reach Europe. Two 6 element wide-spaced yagi beams for the 10 metre ham band have been installed - one aimed at USA and the other towards Japan and the short path to Europe. They have performed better than the traditional Vee beams and have given a boost to Quartz Hill's amateur station ZL6QH which continues to achieve top placings in international HF DX contests. It was first in Oceania for the 2002 'Worked All Europe Contests', set a new record for the Multi-Multi category in the 2002 'Oceania CW DX Contest' and has posted the best score yet in the 'CQWW CW Contest'. ZL6QH has

now made around 76,000 ham contacts with 21,500 being logged in the last 12 months (up from 17,500 in 2001). The total number of QSL cards sent out is 14,634. Inward QSLs are arriving at a rate of more than 300 per month. ZL6QH trustee, QSL Manager and DX League member **RALPH SUTTON** ZL2AOH manages this HUGE task. Don't forget that there are opportunities for SWLs and DXers to visit Quartz Hill — drop us a note if you'd like more details

tv.fm@radiodx.com Compiled by Adam Claydon, Te Kuiti



Hi all. I love this summer weather! Let's get stuck into this month's news.

The Edge and Channel Z Big moves with these two stations in Auckland. I'll try and summarise everyone's news about these two stations. I'll list the various news articles in chronological order so you can see the story unravel!

Jon & Nathan Dropped From Channel Z Jon Bridges and Nathan Rarere have been dropped from Channel Z - to be replaced from Monday by current drive host James Coleman - amid a major line-up revamp. Joining Coleman on breakfast, in a newsreader role, will be ex-Space TV and 95bFM DJ Jacqui Brown. Phoebe Spiers will continue to host the 10 till 3pm show. On drive will be current night duo Bomber & Clarke, while breakfast producer (and former Channel Z Christchurch night host) Melanie Wise takes over a revamped night show. "Channel Z needs to move forward," says PD Andrew Szusterman. "No disrespect to Jon and Nathan at all. We've just made a decision to take a new direction stylistically. We're not changing the music format, still alternative rock... "There's no acrimony at all. Both were offered other roles with the station and we hope that they will continue to be involved with Channel Z in one form or another." We understand there have been approaches from other stations already. The duo also made some strange requests as part of their departure negotiations. Their redundancy pay-out (of undisclosed proportions) is to be paid entirely in 'unmarked 10s and 20s', delivered in 'really cool little briefcases' at a 'hand over' at Kelly Tarlton's Underwater World. (Median Strip January 30)

Edge Auckland Arrival Any Day Now The Edge is to make its debut in Auckland early February - likely meaning changes for Channel Z. Although CanWest has yet to reveal anything publicly, Edge Programme Director Leon Wratt confirms that the station is preparing for an 'imminent' Auckland launch. He would not detail the 'hows or whens', though rumour suggests the launch will be some time in the first week of February. It remains to be seen which frequency the station turns up on. The Edge's Auckland debut has long been anticipated, but with no free FM frequencies, the question has always been who will it replace? Channel Z Programme Director Andrew Szusterman also confirmed this week that changes, including a line-up shuffle are taking place on Z. He had no comment on frequency matters, except to say that "Channel Z will still be heard in Auckland". Speculation meanwhile surrounds the future of a Waiheke Island frequency. 93.8FM has limited Auckland-wide potential, though reengineering maybe a possibility. Having initially pinned hopes on purchasing a new commercial frequency in the promised 101-108MHz release, CanWest has more recently been negotiating with the Maori TV channel over a potential swap of the TV4 VHF frequency

for the FM frequencies set aside for YRN or Maori network use. With the Maori TV channel now seemingly set for the UHF band, however, and the government highly unlikely to sanction the handover of public broadcasting frequency for commercial use, some 'lateral' thinking about the use of frequencies like the Waiheke one may be the only option. (Median Strip January 30)

A new sound on the Auckland radio scene will be "The Edge" which is expected to commence broadcasts on 94.2 FM later this month. Current occupant of 94.2, Channel Z is reportedly moving to 89.8 FM at the same time. There is a strong open carrier on 93.8 FM at present - not sure what is happening there. (Bryan Clark)



Edge to Make Waitangi Day Debut It's official... The Edge hits Auckland on Waitangi Day. Taking over the 94.2FM frequency, Auckland becomes the 19th market for the network that has dominated ratings in many regions over the last two years. The initial broadcast will be a 2003-song countdown to the first live show, the Morning Madhouse breakfast from 6am on Monday (February 10). "Adding The Edge into Auckland is a key part of CanWest New Zealand's growth strategies for 2003," says CanWest Chief Executive Brent Impey. "It means this very successful radio station is truly national, and we expect the station to remain an industry leader and continue to dominate youth radio in New Zealand. Both the arrival of The Edge into Auckland, and the re-launch of Channel Z are significant moves for the radio industry in New Zealand," he says. The Edge's arrival promises to shake up Auckland radio, competing directly with 91ZM but also likely to challenge its CanWest stablemate More FM. All three stations target a similar audience, and all share a great deal of common ground musically. Mai FM, the city's leading music station, might also expect to feel some new competition. Based on its launch in various regional markets over the last two years, The Edge's impact on ratings can be expected to show up quickly. Whether it is fast enough, however, to make a significant showing in the next survey - which starts in March - remains to be seen. (Median Strip February 3)

Channel Z has taken over the other 'Waiheke Island frequency allocation' of 93.8 and will simulcast with 94.2 until Thursday 6th when The Edge will takeover 94.2 and Channel Z will use 93.8. In central Auckland, 93.8 has quite an inferior signal to that on 94.2 so maybe it has different transmitter site at this stage - Waiatarua rather than Skytower? (Bryan Clark)

Channel Z Goes Offshore Channel Z is now broadcasting from Waiheke Island, rather than the Skytower where most of the city's other station signals originate, making room on 94.2FM for the launch of The Edge Network from Thursday. The new home does mean a loss of geographic reach for the station, though the signal has undergone various tweaks, says Programme Director Andrew Szusterman, which have provided better than anticipated reception. "We were expecting good coverage of central Auckland and the eastern suburbs but weren't sure beyond that. But this morning we're getting well into West Auckland and the North Shore. The south might be a different story." Losing ground in South Auckland, the least

'Channel Z-like' section of the Auckland market, is unlikely to be a huge concern in comparison to Z strongholds on the Shore and out West. Work remains to be done, however, on improving the reception, including issues for drivers of Japanese import vehicles whose radios fitted with FM 'band expanders' will mistakenly pick



up signals from Pacific Island Network station Niu FM, found exactly 10MHz higher on the band, when tuned to 93.8FM. New Channel Z imaging, including the new positioning statement 'Sounds Different' (thank you Nova) and a de-purpled logo, will be launched this week to re-educate the audience about where to find the station. (Median Strip February 3)

I have been perplexed as to why, since it moved from 94.2 to 93.8, Channel Z is not as strong a signal in the city.† At home here it sounds as strong as ever. Median Strip has the answer and I kick myself for not working it out. 93.8 frequency is licensed to Waiheke Island so that's where Channel Z's transmitter is now located! Here at home I have line of sight to the island so it all makes sense. (Bryan Clark)

Edge Countdown Underway The Edge's four-day countdown to its first live broadcast in Auckland has begun. The station launches at 6am on Monday morning (February 10) with the breakfast show broadcast from outside the Sky Tower - as in *suspended* outside the Sky Tower, some 170 metres up. (Median Strip February 6)

Channel Z replaces The Edge on Sky Digital Channel Z is now broadcasting on Sky Digital channel 100 instead of The Edge. I assume this will allow those who can't receive Channel Z on 93.8 to receive it instead on Sky Digital. (Adam Claydon)

ISP Performs Beach Rescue Waiheke radio station The Beach has been handed a lifeline by internet company ICONZ, allowing it back on air this week, after its original licence for the 89.8FM frequency was unexpectedly cancelled just before Christmas. The cost of changing frequency would have been prohibitive for a small community radio station, according to Station Manager Gillian Dick, but advertisers ICONZ came to the rescue when they picked up the tab for costs incurred in moving to a new frequency. A 'save our station' petition circulating on Waiheke gained close to 1000 signatures, and the station relaunched on Monday on 90.6FM. (Median Strip January 30)

After its licence to broadcast from Waiheke Island on 89.8 FM was withdrawn before Christmas, "The Beach" resumed transmission on 90.6 on Monday 27 January following a cash injection from Internet Service Provider IHUG.† Operator Tony Storey has relocated his main base of operations from Great Barrier Island to Waiheke Island in a bid to pick up greater advertising support. The studio is in the Artworks complex in Oneroa. (*Bryan Clark*)

Wellington Guardband News

"Thorndon's Now FM" changed frequency from 88.3 MHz to 88.5 MHz, in late January. (Doug Ingham, Lower Hutt)

88.1 **Hindi FM** Wellington continues 24 hour NSP with infrequent ID's and no advertising. According to local Indian storekeepers, studios are located above Kajal Creations, Shop 1, 167 Riddiford Street, Newtown. Kajal Creations sells Indian fashion, CDs and videos. *(David Ricquish, Wellington)*

106.9 **Pulse FM** Eastbourne now SILENT. Plans to recommence Wellington-wide broadcasts later in 2003 with Christian contemporary format. Given that technical and financial problems have plagued them, how they plan to expand is not clear. They are calling for

donations from Christians throughout New Zealand. If Rhema's Life FM opens in Wellington, I don't see how the market could also accommodate Pulse, which has almost the same format. (David Ricquish, Wellington)

107.3 **Therapy FM** Wellington claims it plays 100% NZ music, and offers free airtime to local bands. Say they are part of the 'NZ Pirate FM Network' whatever that is. Mailing address is PO Box 6594, Wellington. Email: therapyfm@yahoo.co.nz (David Ricquish, Wellington)

Wellington's Therapy FM, on 107.3 MHz, has moved its transmitter from near the Basin Reserve to Mount Victoria. Its signal strength is now much improved - noted while driving around Central Wellington. (Doug Ingham, Lower Hutt)

107.4 **George FM** Wellington now on air here, and heard with fair-good signals in southern suburbs since early January. Networked from Auckland. (David Ricquish, Wellington)

A relay of Auckland's George FM has appeared in Wellington on 107.4 MHz. However, it appears to be having some technical problems, with the transmitted audio being "muddy" and suffering from distortion on peaks. (Doug Ingham, Lower Hutt.)

Low Power Kiwi FMer logged from Australia Aussie FM DXer Dave Headland reports a powerful FM opening into the Invercargill area recently and asks for help in identifying one of the stations heard.

Dave writes:

"On a recent FM DXing trip to Point Hicks (far eastern Victoria) I had a very good opening into the South Island, with very intense signal levels from the Invercargill area. The best catch was a low powered station on 88.1, but as luck would have it, they only played back-to-back music during the 20 minutes I was receiving it.† I'm rather intrigued to find out who it was, and especially interested to know the output power, as this could be the best catch I've heard on FM so far". Anyone out there help on this one? (Bryan Clark)

Auckland Guardbands

- + Country music broadcaster TLC Radio at Otahuhu is noted on 106.9
- + An Indian language station is dominating 106.7 in parts of Auckland, blocking the Red FM relay.
- + Unforgettable Music is building up a network of transmitters across Auckland and I have observed them around the city on 106.8, 106.9 and 107.0. (Bryan Clark)

BRIAN PALAMOUNTAIN of Nelson reports January loggings of Energy FM 92.4 and 90FM 90.8 both from the Rahotu transmitter site. Brian passes on information regarding Nelson-based Mainland Television, which has taken a shareholding in Channel 7 Wellington Television. This comes a month after Mainland acquired UHF Ch 33 operator Bays TV. Mainland now owns 5 channels while managing director Gary Watson has an interest in 8 channels.

unofficial.radio@radiodx.com





Compiled by Paul Ormandy, Oamaru

Pirate season has arrived! Peter Grenfell, Ray Davey and I spent an evening at Waianakarua on Sunday the 9^{th} of this month and despite pretty rough conditions of late, were hoping for some decent reception of Euro pirates. Well, we heard R Marabu 6210.5, Laser Hot Hits 6218.1, Crazy Wave Radio 6260.4, UK Radio 6266.6, Radio Waves International 6274.8, Radio Geronimo 6299.5 and Radio 48 6300.2! Some evening with signals first appearing around 0530 and finally fading out around 0800z.

Not a lot of activity on the clandestine front though I'm sure things will hot up if Dubya invades Iraq. Already the British Forces Broadcasting Service (BFBS) has started broadcasting to troops in the Gulf area. Look for them 0200-0500 on 13720, 1500-1800 on 5945, possibly via Austria.

Some news:

Ethiopia: VO Democratic Path of Ethiopian Unity 11840 Nice n/d hand-written letter from the POB 88675 Los Angeles,CA address in 46 ds for SASE (used). v/s Solomon G/S. Letter apologizes for late response, not sure what "SASE" means, though it was used for reply. Also notes that "we know acknowledgement of your successful recepiton of our transmission is important. However, we are not sure if this letter will serve that purpose. Please let us know if we need to do anything else". I'm sure a prepared card and polite QSL explanation would generate a reply. Does anyone know what "G/S" stands for? (Scott R Barbour Jr, Intervale, N.H.-USA)

Check on the Internet reveals they have a website http://www.finote.org and an email address efdpu@finote.org (Mark Nicholls NZ)

China: Accusing China of jamming all its Voice of America and Radio Free Asia shortwave broadcasts into the PRC, especially Tibet, the Broadcast Board of Governors (BBG) in Washington went in front of Congress in December to press for a concerted effort by the U.S. to end the problem and to obtain equal treatment for US broadcasters operating in China on the same basis as China's networks widely enjoyed in the US. (ARDXC)

Afghanistan: Since November 11, Radio France International (RFI) has operated an FM transmitter in Kabul on 95FM following agreement with the Afghani Information Ministry. (ARDXC)

Ethiopia:

Have been listening to Radio Fana, Ethiopia, on 6210 and 6940khz around 1755utc. Reception has been fair although 6940, although a much stronger signal does suffer modulation problems making 6210 the better option at this time. This could well change though. Below is the e-mail verification I received in response to my e-mailed report. Regards, lan Cattermole. Dear lan, We are very pleased to receive your e-mail regarding reception of

our SW broadcast frequencies of 6210 & 6940khz on Tuesday Ian 7/2003. We assure you that what you detailed in your reception report was part of our daily broadcast to the general public. The transmitters for the two frequencies are 10kw each with their antennas positioned in such a way that will enable us to get to, primarily, our country wide audience and secondly to listeners in the neighboring countries of east Africa and the Middle East. However, to be heared by audiences as far as Newzerland hearlens us very much. We thank you once again for your information and hope to hear from you in the future With best Wishes, Haile T i k υ . (ARDXC)

Iran:



O n

December 19, 2002, the US launched Radio Farda, a unique Persian-language radio service designed to give Iranians additional news, information, reports on public affairs, and entertainment. The= service is funded by the U.S. Broadcasting Board of Governors and jointly run by Radio Free Europe/Radio Liberty and Voice of America. Radio Farda broadcasts around-the-clock on AM 1593 and AM 1539 and

digital audio satellite and 21 hours a day on shortwave. While BBG claims audiences like the new station, it replaced Radio Azardi, a Radio Free Europe/Radio Liberty operation. The Iran authorities see Farda as a propaganda move against them. (ARDXC)

Irau:

Widely published reports indicate that the psychological war by the allied coalition against the regime in Iraq began on December 19, 2002 with airborne radio broadcasts from a US Air Force Commando aircraft over the southern No-Fly Zone of the country. The five hours a day of transmissions between 1500-2000hrs are on on 756 and 693 MW, 9715 and 11292 kHz SW and 100.4 FM. They feature Arabic music and anti-Saddam messages. (ARDXC)

Kashmir:

9890kHz, for almost a week I have been hearing a new stn IDing as "R. Sadaye Kashmir" at 0230-0300, 0230-0310 in Urdu, 0310-0330 in another lang. Carrier and test tone come on about 20 mins. before the prgm starts. Very strong at my location in Hyderabad, ID is given only once, at s/on, during the entire prgm, and no adress is given. S/on anmts incl. the particular date of the b/c; prgm consists of songs and easygoing talks (not the hard type). I have not seen any rpts of this stn anywhere yet. (Jacob-India, dx_india, Jan 23)

Saudi Arabia:

Upon a tips from a participant at the present HFCC Conference in South Africa, I am now on Feb 05 listening at 2005-2035- (2130*?) to the Clandestine, Anti-Saudi Voice of Reform on 7590 which has replaced 9925. They broadcast the usual talks and phone-in programmes in Arabic mentioning George W. Bush and Palestine, and are jammed by Saudi Arabia. I suppose this is still via Kvitsoy, Norway. SINPO 33443 - 34444 (Petersen)

broadcast.dx@radiodx.com broadcast.news@radiodx.com



Compiled by Tony King, Greytown

Settled conditions have brought some great DX nights in recent weeks as our mailbag and trail items show. After a DX session with Stu Forsyth and Mark Nicholls I thought it might be helpful to repeat the

Intervals where ID's are probable on ESPN stations.

Minutes past the hour.

Between 00 and 05, 20 and 27, 40 and 47, and 59

If the station does not take news on the hour that five minutes contains:

00 Sportscenter (90 secs)

0130 LOCAL 60 secs

0230 Sportscenter

0400 LOCAL 60 secs.

From the Mailbag:

David Norrie recently had a Dxpedition to Matarangi in the Coromandel and his trail follows. In the meantime a QSL in from KDIA via email (v/s Andy Santamaria (andy.santamaria@kdia.com)

Stu Forsyth, Wellington reports greatly improved conditions so that from his Wellington QTH has logged KSDO 1130, and a tentative report out to

KEOR in Atoka OK on 1110. Stu is now working on a raft of reports from his excursion to Greytown. One in from KCJJ 1630 with a good old-fashioned QSL card for a follow-up letter with \$1US. Logged at Convention last year.

Stu Forsyth's trail from Wellington

1110 KDIS,	Los Angeles, Radio Disney with clear RD id at 08.56 and nx of Digital Music awards. Fair and clear 3/2 SMF
1110 KFAB,	good id at 08.58 with talk. Fading up and down constantly. Mixed. 5/2 SMF
•	
1110 KEOR,	Atoka, OK (Tentative) 08.36 Ad for ' Life Insurance
	an office in Oklahoma City, although cover is not available in every
	state'. Fair at best. Possibly playing mx later. 5/2 SMF
1120 KPNW	fair with talk 08.45 3/2 SMF
1130 KSDO	fair/ poor regular deep fades. Good id at 08.30 with '1130,
	KSDO' Talk focussing on Shuttle disaster. 3/2 SMF
1140 KTHK	fair with sports talk. 3/2 SMF
1150 KXTA	fair with sports talk. 3/2 SMF

Greytown Trail

Thanks to the hospitality of Tony King, Stu Forsyth and Mark Nicholls were able to try out Tony's DX location in Greytown. The following is a selection of what was heard on Friday, 7th February.

- 1020 KTNQ Los Angeles, CA 08.09 Poor but steady signal in SS
- 1320 KCTC Sacramento, CA 09.19 Fair but het whistle and bad splash 1323. Mx. 11.00 id This is AM 1320, KCTC
- 1620 WTAW College Stn, TX 07.28 Vg Coast to Coast Radio. Prgm on residual hauntings!
- 1640 KBJA Sandy, UT 07.18 Latin mx fair mixed wiith talk from KDIA
- 1640 KDIA Vallejo, CA 07.47 Good with Bible talk metnioning Martin Luther and John Wesley. Mixed KBJA with mx in SS
- 1660 KTIQ Merced CA 07.19 Fair/ poor with sport talk, mixed KXOL playing 'Moony River'
- 1660 WWRU Elizabeth NJ 11.50 (Tentative) Good with SS talk but disappeared at the same time as WTTM.
- 1680 WTTM Princeton NJ 11.47Good signal with Hindi mx people singing and sitar mx. Deteriorated rapidly and gone by 12.00 as the sun rose.
- 1680 WJNZ Ada MI 12.02 (Tentative) Came up after WTTM went down with rock mx. Didn't last long. Good while there.
- 1690 WPTX Lexington Pk, MD 11.30 ld given as 'You're listening to newstalk, 1690 WPTX'. Fair/ good mixed with KSXX in SS
- 1700 KTBK Sherman, TX 07.26 Fair/poor with sport talk. Mention made of Dallas.
- 1700 KBGG Des Moines, IA 07.22 Good with ad for Life Inswurance. 'More insurance for less money, call 1800 780 73 14
- 1700 KQXX Brownsville TX 08.26 Fair playing mx from 50s, 60s and 70s but mixed with SS stn carrying something that sounded like football commentary.

Mark used a Drake R8 coupled to aerials pointing NE and E. Stu used his AOR 7030 coupled to a 100m NE antenna.

David Norrie's Trail:

DXing at Matarangi, Coromandel Peninsula, AOR 7030, 300m long wire (until stolen) then 50m on ground through balun.

- 640 , KFI, CA, 10.00, "This is KFI, Los Angeles, Rick Inge with the 2.00 news", good signal, (21st Jan).
- 1110, KFAB Omaha, Nebraska (presumed) 10.30, "6.30 pacific time.. cc radio.com phone 1-800 522" (21st Jan)
- 1470, CJVB, Vancouver (presumed) 08.53, with Korean? language (25th Jan).
- 1620, WTAW, TX, 08.33, "WTAW, warm up radio", 25th Jan
- 1620, Unidentified, 09.26, romantic ballads of middle eastern origin, Aussie ?any ideas anyone?
- 1630 , KKWY, Wyoming, 08.01, Willie Nelson singing Country and western version of, "Georgia on my mind", through NZ beacon, fair to good, 21st Jan. ID at 08.34 on 25th Jan.

- 1640, Unidentified at 08.43, Probably KIBA, Vallejo CA, religious programme, programme was "hope for the harp" and web site www.hopefortheharp.org and gave phone number as "1-800 488 hope", thought I heard "WSL" ID, asking for \$4000 donations for the troops going out to Iraq, any ideas anyone?, KBJA in SS building in background. (21st Jan)
- 1650 KDNZ, Cedar Falls, Iowa, 08.42, phone in discussion about abortion, "John Ashcroft is pro god", great signal (21st Jan)
- 1700, KQXX, Brownsville Texas, 08.29, "big girls don't cry", "rock the boat", and the Ronettes "be my baby" and Id'ing as "Oldies Radio", co channel with KTBK, but superb signal (21st Jan)
- 1700 KTBK, Sherman, Texas, phone in and adverts for.... "North Texas, phone 972445 8144", ID as "KTBK sporting news, the ticket" (21st Jan)
- 1701, Radio Brisbani (probably) 09.40, Australian Indian station, big, big signal. (25th Jan).

BROADCAST NEWS

BELIZE VOA relay station closed down on September 15 according to local press reports via AWR Wavescan. This closes both 1530 and 1580, each with 100kW and which have been heard in the South Pacific. (David Ricquish)

GUAM Former Trans World Radio AM outlet KTWG 801 has been sold to a local Christian businessman according to AWR Wavescan. Assumed it will remain on air, but maybe with a new callsign? (David Ricquish)

USA:

1640 KDIA Vallejo, CA format change (at the hour we hear them) contemporary Christian with Roman Catholic dominance.

1660 KXTR Kansas City KS v/s John Verlin, Sales, <u>iverlin@entercom.com</u> KXTR plan to start broadcasting in digital AM some time this year (Bjarne Mjelde, Berlevag, Arctic Norway, Feb 6, hard-core-dx via DXLD via Glen Hauser's DX Listening Digest via David Norrie)

1670 KHPY CA, Moreno Valley came on air 16 January. Variety format. Overnight power 2000 watts. ID "KHPY Moreno Valley 1670" (DKK-CA) IRCA Soft Monitor. On-air line toll free 800-959-1670. Gave local request number 909-247-1530. (GL-CA) IRCA DXM. Owner of station is D. L. Van Voorhes

and was told to use mailing address of Box 909, Moreno Valley CA 92556. Gary Larson Burbank CA IRCADXM.

1660 WWRU address and contact: George D. Butch, CEO, Radio Unica, 8400 NW 52nd St, Suite 101, Miami FL 33316. (Patrick Martin CA; IRCA DXM). 1kw nites

X band signers:

1620 KBLI Blackfoot ID. Carl Watkins, Chief Engineer.

1620 KOZN Neil Nelkin PD

1640 KBJA Kirstin Perry, COO

1650 KBJD Patrick Griffith, QSL Coordinator

1650 KWHN Lee Mathews

1660 KXTR Ken Wolf CE

1670 KAZT Jim Bremer, CE

1670 WTDY Roy Simmons

1680 WTIR address: Rama Communications P.O. Box 680889 Orlando FL 32868

1690 KDDZ Rhonda Sheya, GM

1700 KQXX Mirna Navarro

1700 WEUV Mark Goodwin

Source IRCA DXM.

Websites for AM info: (Source IRCA DXM)

"The Capital Gold Dial Guide" covers stations in the area around Albany.

Along with lists of stations and accompanying links, there is information on towers and transmitters, radio and TV memorabilia, and more http://www.capitalgold.org.

A new Latin MWDX e-group on Yahoo features DX tips, loggings, solar weather alerts, propagation, etc. They plan to assemble a database of the audio IDs of as many Latin American stations as possible, so fellow DXers can use them to help with IDing what they hear on the radio. The address is: http://groups.yahoo.com/group/LatinMWDX (Matt L, Moderator, Latin American MW DX Club)

IRCA member Craig Healy has created the website http://www.am-dx.com.

Devoted to the "distant AM radio reception hobby" from 150 to 1800 kHz, the site covers various facets such as receivers, antennas, QSLs, clubs IBOC, station lists and more. Colourful subjects covered in the site are links to EKKO stamps, the history of WLW, Marconi, and Fessenden. There's also a link to the WWV Solar Report, and other resources.

marketsquare - members free advertisements

Sell:

I have ended up with two copies of 2003 WRTV Handbook. Will sell one brand new for \$50. Ph. Ian Cattermole. 03-5785629 or e-mail iancattermole@xtra.co.nz

DXers Brought Hope to Thousands

Amazing War Effort by a Small Group By JACK FOX (ZL4ND) Patron New Zealand Radio DX League

There can be few, if any, radio clubs in the world to claim a record like the New Zealand Radio DX League, formerly the New Zealand DX Club, has the distinction of taking part in monitoring radio stations involving three wars in 23 years. The DX members brought hope to thousands of people in many countries who poured their gratitude and praise on a group of radio listeners who gave many hours listening to enemy shortwave broadcasting stations.

It all began early in 1941, when as president of the Otago branch, I was called to the radio inspector's office in Dunedin to meet two men who questioned me closely about my hobby and what I listened to. What followed set the pattern for an important role DXers were to play during World War 2 in the next four years and the ones to follow during the Korean and Vietnam Wars. The two men were from the Security Intelligence Bureau (now Security Intelligence Service) who asked me to set up a system to monitor enemy shortwave broadcasting stations. The assignment was to report on any item broadcast about New Zealand and New Zealanders. Through this the bureau was able to trace the source of the items and whether there was any leakage from New Zealand other than by official means.

An interesting point arose out of this meeting when I mentioned that Radio Tokyo (NHK) were sending out questionnaires with verifications asking for information such as where were the nearest telegraph office, transformers, tram lines, nearest railway station, distance from the sea and many other vital details. They were greatly interested and it looked as if the Japanese were collecting data about countries they were soon to be at war. I was able to supply some of these forms.

A team of Otago members including Arthur Cushen, of Invercargill, was set up to carry out the monitoring. Little did they and other DXers who undertook this task, realise what it would lead to in the remaining war years and the ones that followed. At this stage Germany and Italy were the countries with which New Zealand was at war. It meant monitoring the shortwave stations in these countries and expanded to enemy operated stations that had been captured.

When I entered the New Zealand Army later that year Arthur took over the DX control, and I recall taking an old battery power Gulbransen Radio to various camps in the South Island. Fortunately being in a Divisional Signals unit I had special permission to carry out monitoring when duties permitted. Radios used by DXers were ordinary domestic one. mainly mantle ones and the aerials were simple dipoles. I transferred to the Royal New Zealand Air Force in 1943 and was able to continue monitoring in the South Pacific. When Japan entered the war in December 1941 it brought more

monitoring of stations in the Far East, perhaps the station in Batavia of the Dutch East Indies (PLP 11.000 mHz) was the strongest.

While the enemy had files on New Zealand much of their news was propaganda and exaggerated. They concentrated on the fighting in the Middle East and Italy and related to the 2nd Division New Zealand Expeditionary Force, sinking of warships and other naval engagements, and shooting down planes with New Zealand crews.

Some idea of what was monitored by DXers is outlined by Arthur Cushen in a supplement Secrets of Wartime Listening to Enemy Broadcasts to his Radio Listeners Guide in 1990. He obtained the clearance of classified information from the Attorney General Right Hon David Lange. It tells many interesting things that were broadcast by enemy stations, now so many years later it must seem strange to the modern generation.

Japan entered the war on December 7 1941 and New Zealand was drawn closer to the likelihood of an invasion. In March 1942 Berlin was broadcasting that the last bastion in the South Pacific, Australia and New Zealand and if Australia fell there was no hope for New Zealand as the Japanese moved quickly south through the Pacific.

Prisoners Messages of Cheer

Listening to the enemy shortwave stations resulted in what was to become the greatest operation by DXers that brought hope to thousands of anxious families back home in New Zealand, Australia and England. It was to earn the DX Club its greatest accolade through the work of the *Prisoner of War Monitoring Service that* resulted in an estimated 6000 messages being handled.

It began when those monitoring the enemy shortwave broadcasts began picking up names and later messages from Australian and New Zealand servicemen and civilians were prisoners of war.

Initially DXers began picking up and sending messages to next-of-kin. I recall meeting one of my old work mates on leave at a service club in Christchurch **and** asked how his father was doing to be told he was missing in action. I knew he was a prisoner of war in Germany as I had heard a message some weeks earlier and decided to tell him the news. Arthur had a similar case and it was realised that official word was slow. The result was the establishment of the Prisoner of Monitoring Service. Arthur became the central point for pooling reports from members throughout the country. Reception varied throughout the country and a vital word in the address maybe heard by one listener and not another.

Equipment in those days was usually household radios, there were no tape recorders, and it was a case get it right the first and often the only time it was broadcast. At the

height of the monitoring service signals were being checked from Berlin, Rome, Warsaw, Tokyo, Shanghai, Peking, Bangkok, Penang, Singapore, Manila and Batavia.

As the war impetus increased and more members were called into the services it fell In the main to Arthur Cushen and a few were not in the armed forces. While in the Army, and later RNZAF Signals, I was able to assist with monitoring from various locations in New Zealand and the South Pacific. The benefit of the latter location was shown in a letter Arthur sent to me in November 1944 acknowledging a report with messages picked up in Fiji which were not heard in New Zealand. That year 1100 POW messages were picked up from enemy stations.

Unlike the fast service the Germans and Italians provided, with names of men broadcast soon after internment, the Japanese often took two years before a message was received that a civilian internee in Singapore or some other part of the Far East was alive. During the Italian campaign it was not uncommon to receive messages from men recently captured and to pass them on to relatives before they were reported missing by the New Zealand Government thanks to picking up a German station known as Radio Debunk.

Initially Berlin would broadcast a list of up to 10 names and address but no messages during their news. During 1942 the Germans introduced a programme and titled it *Anzac Tattoo.*

Later it included messages and entertainment. This programme continued until near the end of the war in Europe when enemy stations were silenced,

Examples of these messages were:

From	Charlie Venning POW number 33441 Stalag 18
To	Mrs E C Venning 6A Cadiman Street North Avon Christchurch
Text	Dear Mum and all loving Christmas wishes to all. Remember me to
	all my friends. Always thinking of you, your loving son. Chas
From	Corporal H A Milne POW 127920 Stalag 7A
To	Mrs Milne 44 Naylor Street Hamilton
Text	All is well. Have had several letters but no parcels. Hope shop
	Is doing well. Love Harold

There was little doubt messages from prisoners in Japanese hands were ones that indicated to monitors how hard life was for those in the Far East camps were experiencing. It was not until the war ended that the stark conditions they had gone through in the past four years. For many back home the messages were the first they had received in two or so years. The prisoners asked for news from back home an attempt was made to get the Government to send message over the Australian Broadcasting Commission stations, which transmitted an hour long programme of Australian messages each day. These were picked up by the Japanese and delivered to the prisoners, but the New Zealand Government did nothing.

Grateful letters with glowing tributes poured into Arthur's home every day from families thrilled with news loved ones behind barbed wire in camps throughout Europe and the Far East. The number of messages picked up by New Zealand DXer was estimated around 6000 from the first one in 1941 until the war ended finally in 1945.

The Korean War in the fifties saw the League again in action monitoring Radio Peking from prisoners who in the main were Americans and British. No mail service existed between Korea and America and while New Zealand was technically at war the mail service was unaffected. As a result the hundreds of messages from New Zealand made their way back to the states. News of the DXers work became widely known in America after the *New York Times* and other leading newspapers ran stories of the monitoring service.

After the war ended the United States Embassy in Wellington wrote a letter thanking the League. The ambassador wrote "The work which your organisation performed during the conflict in Korea was, I should think, of immeasurable value in alleviating anxiety on the part of countless relatives of allied prisoners of war held in custody by the communists.

The League's final Prisoner of War Monitoring Service was in 1964 when all their previous work was repeated listening to Hanoi Radio in North Vietnam. Technology had advanced and recorded messages were airmailed to next of kin in America.

So ended an outstanding performance which must rate as one of the rarest to be performed by any organisation in the world of DX listening.

Footnote:

Today, 58 years later in 2003, the DX League is still receiving requests from overseas researchers in countries like Australia and England, for information on the Prisoner of War Monitoring Service.

Published February 12 2003

AUSTRALIAN & NEW ZEALAND MW GUIDE

The new Australian & New Zealand MW guide is now out via the Australian Radio Dx Club. For those in Australia & NZ it is AUS\$10-00. For those overseas it is US \$10-00 for Airmail. This includes the updater sheet in 8 months.

Contact: John Wright.

15 Olive Cres, Peakhurst, NSW, 2210, Australia or phone +61 2 9533 6261 or email dxer@fl.net.au

Afghanistan Update

From Martin Hadlow NZ Radio DX League Member in Kabaul.

Here in Afghanistan, I have been able to help a DXer from Finland get a verification for reception of Radio Balkh in Mazar-i-Sharif. Mauno Ritola heard Radio Balkh on 1584 kHz on the 4^{th} October, 2002 at 1547 GMT. He sent me an audio-clip by e-mail and asked if I could identify the station. Quite fortuitously, a couple of weeks ago, the Manager of Radio Balkh happened to be in Kabul and visited my office. I played the clip and he immediately recognised the announcer and the anthem played at close of transmission. The manager, Mr. Abdul Rabe Jaheed, verified reception by writing a few words on a yellow Stick-It, which I have sent to Mauno. An unusual way to get a verie, but better than nothing! Radio Balkh broadcasts with 10KW, so it was a very good catch.

The Kabul FM wave-bands continue to fill with signals from both Radio-Television Afghanistan and international broadcasters on relay. BFBS now has two FM stations on the air (24 hours in English by satellite from the UK) while the Turkish ISAF contingent also has a station in the Turkish language. French and German language stations are also on-air, as is the BBC World Service, the VOA, RFA and others. The first local community FM stations should be on-air by next month, thus ensuring that Afghan voices are more widely heard.

Recent editions of the *DX Times* continue to carry a range of very interesting material. The item on the development of radio on Bougainville in Papua New Guinea was particularly interesting to me as I was Station Manager of Radio Bougainville back in 1973-74. At that time, the station, based in Kieta, was operated by the Department of Information and Extension Services of the (then) Administration of TPNG. We went under the call "Maus blong Sankamap" (Pidgin for 'Voice of the Sunrise') and broadcast on shortwave, morning and evening, in Pidgin and English. We had some 20 broadcast officers on the staff and our programmes were highly popular and widely heard. Our library of locally recorded music was, put simply, a treasure-trove. We carried out patrols to villages throughout the island and stored the recordings of traditional and string band music, along with oral tales, in our library after broadcast. It was probably the best collection of local music ever assembled. Sadly, I believe that the town of Kieta was widely razed during the recent civil conflict. I guess the library, with its irreplaceable audio tapes, would also have been destroyed.

Another item of interest was David's photograph of MacArthur Chambers in Queen Street, Brisbane. This was the old AMP building before the war and was taken-over by General MacArthur as his Headquarters for South-West Pacific Area (SWPA) operations. It reverted to the AMP after the war and later became general offices, with a duty-free shop at ground level. More recently, and much to my amazement, this Heritage Listed building had some new penthouse apartments built on the roof!

Best wishes from a very cold and snowy Kabul Martin Hadlow

Article: A Gem in the Wairarapa

Compiled by Stuart Forsyth Wellington

I needed to get a radio I had recently bought repaired. Where do you go? Who knows enough about a broad range of sets? The answer is Sound and Vision Services in Masterton. Thanks to Tony King and Mark Nicholls, this little gem of information was passed on to me and Alan Jessop was just the man for the job.

Alan's shop was easy to find. He did the job expertly, with a minimum of fuss and in a short time span. The cost was reasonable too. Does this sound like free advertising? Well it is. Finding a person such as Alan is not easy. What's more, he is a League member too!



He began working with radios during a 'work experience' stint at school. He had been interested in electronics before that however. He left school and then began working in the business proper. Twenty three years later and he is still as interested as he was on day one. During the course of this time he has been able to collect a fair few radios too and this was the bit I was interested in.

In the back of the shop he has a Koyo 11 band set (see photo). It is a very unusual brand. He was given it - it wasn't to be repaired. That won't stop Alan - it will work!

He has accumulated more than 20 radios at home. He has no favourites, although he is very fond of the Grundig Satellites that he has. Probably the radio with the most interesting background is his Sony CRF 160. This came from the local tip. There it was, sitting atop the pile of rubbish waiting to be flattened by the bulldozer. It was grabbed and duly delivered up to Alan. It worked - just. The plastic fascia was still on it and it needed a new power cord. It was lovingly restored and is now in fine working order.



Alan's Koyo receiver

When pressed, Alan had some difficulty remembering all the receivers he has at home. However having visited his home, I can reveal that he has:

 Grundig Satellit 3400 professional Grundig Satellit 500 Grundig Satellit 650 professional • Icom R71A Kenwood QR 666 National Panasonic DR28 National Panasonic DR49 National Panasonic RF1403 • National Panasonic RF 2200 (DR22) x 2 National Panasonic RFB60 National Panasonic 5410 Pye Cambridge Philips D2999 Philips AL990 (a rarity) Philips 970 Sanyo Transworld Sony CRF 160 Sony SW55 Sony SW77 Sony ICF5900W Sony ICF 6800W (orange model) Sony ICF 7600D Yaesu FR DX400 Yaesu FRG 7 Yaesu FRG 7000 Yaesu FRG 7700

In addition Alan also has a number of valve radios.

Alan is a member of the League and is a SWL. He doesn't bother logging stations (with the QSL policies of some stations who can blame him?), but he attaches his sets to a 40m longiwre and regularly has a flick through the bands to see what is there. He is also interested in scanners and recently built his own Discone antenna. He says it isn't too bad on the broadcast bands either.

Alan's main hobby though is simply doing up receivers. From the look of the job he did on my TRF and from the recently refurbished DR49 I saw in his shop, he does an excellent job.



If your radio is a bit sad and needs a facelift, give Alan a call. He is a very personable chap and above all is extremely good at what he does. It will be worth the effort.

Mark Nicholls and I would like to thank Tony King for the tip off and Alan for his warm welcome and the obvious enthusiasm and expertise with which he tackles his job.



Sound & Vision Services, 6 Renall Street, Masterton. Phone/ fax (06) 378 8997



Icom R71A and Sony ICF SW 77 (top)



Philips AL990



Kenwood QR 666s



Grundig Satellit 3400



Gundig Satellits 500 (top) 650 (bottom)



Sony ICF 7600D



Sony CRF 160 (top), Yaesu FRG7, Yaesu FRG 7000, Pye Cambridge (bottom)



Philips D2999 (top left), Sony ICF 6800W (top right National Panasonic DR22s (bottom))



Sony ICF 5900W (left), Sony CRF160 -the tip model! (right)

ladders@radiodx.com

Compiled by Stuart Forsyth, Wellington

MEDIUMWAVE OPEN (Over 500)	DEC	FEB	INC	CNTS	SHORTWAVE OPEN (Over 500)	DEC	FEB	INC	CNTS
Laurie Boyer	4006			137	Ian Cattermole	4399	4496	97	200
Ray Crawford	2281	2281	0	188	Barry Williams	2703			243
Paul Ormandy	1549	1551	2	142	Günter Jacob	2587	2664	77	161
Sutton Burtenshaw	1011	1011	0	102	Ray Crawford	2511	2518	7	228
David Ricquish	786	788	2	66	John Durham	2225			264
Bryan Clark	676			120	Laurie Boyer	1750			183
Barry Williams	648			83	John Campbell	1670			261
Mark Nicholls	643			67	Paul Ormandy	1628	1636	8	244
John Campbell	642			129	Lindsay Robinson	1442	1444	2	171
Stuart Forsyth	537	542	5	43	Robert Park	1516	1558	42	97
Paul Aronsen	529	529	0		Bryan Clark	1355			236
Lindsay Robinson	524			56	Paul Aronsen	792	792	0	125
SENIOR (301 - 500)					Peter Grenfell	671			133
Peter Grenfell	443			37	SENIOR (301 - 500)				
INTERMEDIATE (151 - 3	(00)				Andy McQueen	379			103
Andy McQueen	298			21	Stuart Forsyth	358	0	0	105
Robert Krijger	228			13	INTERMEDIATE (151 - 3	300)			
Günter Jacob	212	218	6	45	Arthur de Maine	265			91
JUNIOR (5 - 150)					JUNIOR (5 - 150)				
Pobert Park	86	86	0	2	Mark Nicholls	121	121	0	55
Andrew Sunde	23			2	Andrew Sunde	26			20
FM-TELEVSION					UTILITIES				
Robert Krijger	678			6	Ron Killick	61754			133
Bryan Clark	148			5	Robert Park	78	78	0	5
Paul Ormandy	110			5					
Mark Nicholls	42	42	0	2	Stuart Forsyth				
Andy McQueen 29			2	c/- NZRDXL, P.O.Box 3011, Auckland					
Robert Park 19 19 1 1 or direct to 46 Akaroa Drive, Maupuia, Wellington 6003 E-mail: smforsyth@xtra.co.nz									

Here we go again! Where have the past two months gone. I never did get to all that DXing I was planning to. It's good to hear from you - keep those totals rolling in!

73s, Stu

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.

The NZRDXL is administered from Auckland by:

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