N.Z. RADIO

DX

New Zealand DX Times

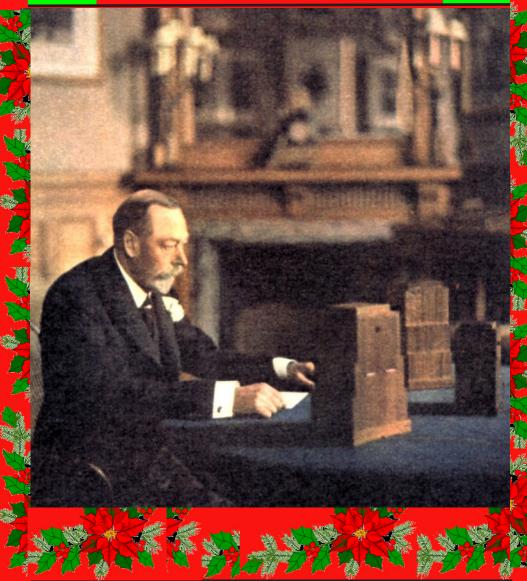
Monthly Journal of the New Zealand Radio DX League (est 1948) December 2010 Volume 63 Number 2

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N.Z. RADIO



LEAGUE



Deadline for next issue is Wed 5th Jan 2011 . P.O. Box 39-596, Howick, Manukau 2145

CONTENTS

	_
REGULAR COLUMN	S
Bandwatch Under 9	4
with Ken Baird	
Bandwatch Over 9	10
with Phil van de Paverd	
English in Time Order	15
with Yuri Muzyka	
Fcst SW Reception	17
Compiled by Mike Butler	
Shortwave Report	18
with Ian Cattermole	~~
Utilities	22
with Arthur De Maine	•
FM News and DX	24
with Adam Claydon	•
TV News and DX	26
with Adam Claydon	27
Mailbag	27
with Mike Butler Broadcast News/Trail	32
	32
with Bryan Clark ADCOM News	36
with Bryan Clark	30
Branch News	38
with Chief Fditor	30
Ladders	44
with Stu Forsyth	77
wiin Siu i oi syin	
OTHER	

OTHER	
On The Shortwaves	41
with Jerry Berg	
Wireless to the Rescue	42
by AWR Wavescan	
SUBSCRIPTION	45
FORM	
NZART Promo	46

ADVERTISEMENTS

RHF Books	40
PK's Loop Aerials	43
Burnet Pollard Books	47/48

FRONT COVER

King George V makes an early Royal Family Christmas Radio Broadcast to the 'British Empire' from Sandringham, Norfolk, England. The first Christmas message broadcast was in 1932

Seasons Greetings to all members of the NZ Radio DX League.

Thank you to all members who have contributed notes or articles to the DX Times during the past 12 months.

And a special big thank you to sub-editors for the great job they do each month in helping me bring this magazine to you.



CLOSING DATES FOR THE NEXT

3 MONTHS 2011

January Wednesday 5th January
February Wednesday 2nd February
March Wednesday 2nd March

You can send your contributions to the NZ Radio DX League at PO Box 39-596 Howick Manukau 2145

or use the email or postal addresses given by the section sub-editors.



NOTE. ALL SUBSCRIPTIONS DUE 31 DECEMBER 2010 SUBSCRIPTION FORM ON PAGE 45 OF THIS MONTHS MAGAZINE

A BIG THANK YOU TO PROCOPY LTD FOR DONATING THE COLOUR COVER FOR THIS MONTHS MAGAZINE.





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editor@radiodx.com

or if there is any problem with that email address you can try email address

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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 NZRDXL AdCom, P.O. Box 39-596, Howick, Manukau 2145, NEW ZEALAND

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Annual Membership:

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Contact Treasurer for more details.

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NEW ZEALAND DX TIMES

PAGE 3

DECEMBER 2010

BANDWATCH UNDER 9MHZ

Editor Ken Baird Christchurch

email ka.baird@xtra.co.nz bandwatch.under9@radiodx.com



Please add the date, language in full, and country of transmitter origin of your logging to your report, and keep the reception details short.

Please ensure the correct station is named in your logging as I have had several cases of incorrect station loggings of late. <u>Please get a clear ID or show as tentative</u>.

kHz	UTC	Country, Station, Programme, & Reception Details
2195	1020	??? UNID STN v v poor with extreme noise – DD 5/10
2325	1345	AUSTRALIA, Tennant Creek good with ABC relay in English – DD 8/10
2485	1549	AUSTRALIA, VL8K Katherine fair but noisy // 2310 Alice Springs good – DD 8/10
2850	1008	NTH KOREA, R Pyongyang fair but v noisy in Korean – DD 4/10
3185	1002	USA, WWCR poor and v noisy in English – DD 5/10
3250	1759	NTH KOREA, KCBS Pyongyang poor in Korean – DD 9/10
3275	0943	PNG, R Southern Highlands poor but noisy in Vernac – DD 12/10
3310	0932	BOLIVIA Radio Mosoj Chaski, Cochabamba with fair steady signal
		23/11 with gospel songs in native language. BCM
3315	0958	PNG, R Manus poor and noisy in vernac – DD 15/10
3325	1027	PNG, R Bougainville poor in vernac – DD 24/10
3955	1655	LITHUANIA, HCJB fair with relig prgm in German, ID 1659, some QRN – CC 16/11
3955	1809	LITHUANIA VOIRI relay via Sitikuni with GG to Europe. Parallel freqs from
		Iran also audible – 6205 vgd, 7380 poor. Scheduled 1730-1828. BCM
3995	1702	U.K, DW, Fair in German re World Music Expo, 1705 I/S – KB 7/11
3995	0937	INDONESIA RRI Kendari with non-stop pops 23/11, occasional annots in Indonesian, fair. BCM
4052.5	5 0556	GUATEMALA Radio Verdad tentatively the weak audio here 20/11.
		Hymn hrd 0601 and station left air by 0606 so it matches station's
		religious format and scheduled closedown. Will be an easier catch in
		the autumn. BCM
4450	1542	NTH KOREA, KCBS good in Korean, some noise – DD 8/10
4750	1536	CHINA, Nanning CNR-1 poor in Chinese – DD 8/10
4760	1725	ANDAMAN ISLANDS AIR Port Blair with Indian music 21/11. At
		1729:45 woman anncr identified music and station ident "Akashvani
		Port Blair" to closedown. Poor to fair signal. BCM
4800	1415	INDIA, AIR Hyderabad good but noisy in Hindi – DD 18/10
4810	1358	INDIA, AIR Bhopal in English with Games commentary – DD 14/10
4840	1330	INDIA, AIR Mumbai fair but noisy in Hindi – DD 17/10
4905	1530	CHINA, Xizang Tibet poor in Chinese – DD 8/10
4910	1336	INDIA, AIR Jaipur poor but v noisy in Hindi – DD 17/10

4919	0415	ECLIADOR Radio Quito reactivated here 24/11 Very good signal with		
4919	1919 0615 ECUADOR Radio Quito reactivated here 26/11. Very good signal with SS ident. Not hrd subsequent nights. BCM			
4920	1521	INDIA, AIR Kolkata good with ads in English – DD 8/10		
4965	1343	INDIA, AIR Shimla poor in Hindi – DD 17/10		
4970	1350	INDIA, AIR Shilong fair with documentary in English – DD 17/10		
4975	1406	RUSSIA, V of Russia fair with news in English – DD 17/10		
4975	1525	RUSSIA, V of Russia fair but noisy in English – DD 8/10		
4975	1847	RUSSIA, V of Russia fair in English with some QRN – DD 20/10		
4990	0703	SURINAM Radio Apinte poor but clear 29/11 with pop oldies, EE ident		
		including website, some Dutch annots. Followed past 0800.		
		Fortunately no Brasil Central 4985 QRM tonight. BCM		
5025	0709	AUSTRALIA, VL8K Katherine good in English with music and ads – KAB 12/11		
5755	0728	USA, WTWW good in English with Bible prgm – KAB 12/11		
5885	0730	CUBA??? Numbers Station good in 5 number groups in Spanish – KAB 12/11		
5890	0732	USA, WWCR fair in English with Bible prgm, ID as Bro Stair at 0732 – KAB 12/11		
5900	0648	BULGARIA, R Bulgaria good in German with YTL Talking // 7400		
		stronger – CC 8/11		
5910	0742	COLOMBIA, Marfil Estereo, Fair in Spanish with mx, but low audio on		
5015	0.470	mic, also heard same time 28/11 – KB 9/11		
5915		MONACO, TWR good in Czech with comment // 7220 the same – CC 8/11		
5925	1308	CHINA, CNR-5 Zhonghua v good in Chinese but with QRM from unid		
5925	1920	stn – DD 17/10 GERMANY, D Welle good in Farsi, ID 1921, comment, ID 1925 with		
3923	1920	e-mail address – KAB 14/11		
5935	0735	USA, WWCR in English with Bible preaching, muffled. ID 0740 – KAB 12/11		
5935		USA, WWCR good in English – DD 11/10		
5945	1600	CHINA, CNR-1 Beijing good in Chinese – DD 8/10		
5950		USA, WYFR good in English – DD 11/10		
5955	0726	PORTUGAL, R Netherlands good in Dutch with comment // 9895 the		
		same – CC 12/11		
5970	0830	BRAZIL. Radio Itatiaia. (Tent) Poor on Portuguese IC 7/11		
5975	1555	SRI LANKA, BBC WS good but noisy in English – DD 8/10		
5980	0715	CUBA?? RHC tentative, Fair in Spanish – KB 7/11		
5980	0740	BRAZIL, R Guaruja fair in Portuguese with OM/YL discussion, then OM		
		with comment. ID in Music sting 0747 – KAB 12/11		
5990	0807	BRAZIL, R.Senado, Fair in Portugese to start, mostly talk, "Senado" ref		
		0818, but lost under 5995 splatter after 0830 – KB 28/11		
6010	1936	IRAN VOIRI Teheran poor but clear with Quran 24/11, theme music then		
		EE news at 1938. Parallel frequencies heard – 7320 best, fair signal,		
(000	1010	11695 weak, 11860 poor. BCM		
6020	1910	CHINA, CRI poor in Arabic with comment by YL – KAB 12/11 GERMANY, Bible Voice fair in English with relig prgm, ID 1914 then off – KAB 12/11		
6030 6050	1912 1543	MALAYSIA, RTM, Poor in Bahasa Malaya, MA, then Q'uran, 1600		
0030	1545	anthem & TS – KB 7/11		
6050	1640	U.K, Polish R., Fair in presumed Belarusian relg svc – KB 7/11		
0000	10-10	o.n., i olion n., i all ili presonica belatosian religiore - No 77 II		

 1835 USA, WYFR good in presumed Romanian with comment and music, ID 1858 then off – KAB 14/11 6055 0833 JAPAN, R Nikkei good with classical music – DD 11/10 6075 1840 UK, D Welle good in German with comment, ID 1900 as D Welle – KAB 14/11 6080 1920 AUSTRALIA, R Australia poor in English with comment with Aussie accent on rice farming – KAB 12/11 6090 0841 AUSTRIA, AWR fair in English with music – DD 11/10 6110 1304 CHINA, CRI v good in Chinese – DD 17/10 6120 1915 TURKEY, VOT fair in Turkish with ethnic music – KAB 14/11 6130 0500 PORTUGAL. RDW via Sines. Fair in English. – IC 2/11 6134 8 0922 BOLIVIA Radio Santa Cruz vgd with SS vocals 30/11. At 0926 time check for 5, 26 and Radio Santa Cruz ident. BCM 6135 0824 BRAZIL, R.Aparecida Fair in Portugese, mx, ID 0829 – KB 7/11 6165 0514 CHAD Ndjamena good & clear with FF news, followed by prgm promos, ident as 'Radio Nationale' 26/11. Excellent 0530 28/11 at 0530 when drum interval signal played and identification in FF. Ident as 'Radio Chad' hrd this day. BCM 6170 0836 NZ, RNZI good in English – DD 11/10 6185 0650 MEXICO, R.Educacion, Poor in Spanish, semi-class mx, also heard with a variety of back-back mx on 8, 9, 17, 28/11 – KB 7/11 6190 0519 SOUTH AFRICA, BBC, Fair in English nx, ID 0520, lost under CRI after 0530 – KB 9/11 6195 1312 SINGAPORE good with news in English – DD 17/10 6195 1312 SINGAPORE good with news in English – DD 17/10 6195 1312 SINGAPORE good with news in English – DD 17/10 6195 0557 USA Radio Taiwan International via Okeechobee exc with closing anncts in EE. Announced schedule says this freq in use 0300-0400 and 0500-0600 UTC. At 0559:30 SS ident for WYFR then into RTI's SS language service 20/11. BCM 7175 0356 ERITREA VOBME Asmara vgd 24/11 with tuning signal and repeated idents in local langs. 2 parallel freqs this day – 7120.04 and 7185.03, both at poor level. News bulle			
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7200 0852 CHINA, CRI v good in Chinese – DD 11/10	7200	0852	
7220 0700 MONACO? TWR Europe. Fair in Czech. – IC 4/11			
7220 0800 GERMANY. Bible Voice BC. Poor in English. Heavy co-channel QRM IC 7/11	7220		
7220 2010 GERMANY. Radio Liberty via Wert. Good in Belarussian IC 15/11			
7230 0438 SOUTH AFRICA Channel Africa via Meyerton weak in EE 28/11. Signal			·
peaks on clear frequency around this time but lost by 0500. BCM			
7245 0707 MAURITANIA Radio Mauritanie vgd in clear with news in AA 29/11.	7245	0707	
Heard well past 0800 27/11 with ident at 0756. Also hrd at 0559 28/11			
with Quran but heavy splash from Deutsche Welle 7240. BCM			

0725 VATICAN, Vatican Radio good in French with relig comment – KAB 12/11 7250 7255 0600 BELARUS. Radio Belarus. Fair in Belarussian. - IC 4/11 7260 0720 VANUATU, R Vanuatu good in Bislama with news – KAB 12/11 7260 2143 VANUATU Radio Vanuatu reactivated here 10/11 replacing 5055, audible all day on measured frequency 7259.97. Ident in Pidgin 2159 then time check for 9 o'clock. Carries Radio Australia's "Pacific Beat" news at 0500, excellent 15/11, BCM 7265 1947 CHINA, CRI fair in Esperanto to Europe – KAB 12/11 7275 0846 STH KOREA, KBS good in Korean - DD 11/10 1917 SPAIN, REE v good in Spanish – DD 20/10 7275 7290 0714 USA, R Liberty good in Russian with comment – KAB 12/11 7300 0711 BULGARIA, R Bulgaria good in Spanish with ethnic music – KAB 12/11 7305 0420 ROMANIA. RRI. Poor in English.- IC 14/11 7315 0601 FRANCE RFI in EE with Irish-accented newsreader giving results of elections in Guinea, very good 19/11 // to 13680 which was fair. BCM 0620 PORTUGAL. RDP. VG in Portuguese. - IC 19/11 7345 GERMANY. Bible Voice BC. Good in Arabic after English IDs.- IC 8/11 7355 1715 7360 0645 VATICAN. Radio Vaticana. Good in English. – IC 19/11 7370 0650 ROMANIA. RRI. VG in English. - IC 19/11. 7375 1300 CHINA, CNR-2 Business Radio v good in Chinese – DD 17/10 7400 0706 BULGARIA, R Bulgaria good in French with news - KAB 1'2/11 0753 BULGARIA, Good in English with women's choir, ID at 0756 - CC 12/11 7400 1258 CHINA, CRI fair but noisy in Chinese – DD 17/10 7400 1756 CHINA, CRI good in English with Chinese Studio – DD 23/10 7420

OVERSEAS LOGGINGS. All may not be audible in NZ at the times listed

kHz	UTC	Country, Station, Programme, & Reception Details
3255	0256	SOUTH AFRICA, BBC – Meyerton, 0256-0316 Oct 27, news features in
		English with time pips and ID at 0300 followed by the news and lead
		story about Tsunami in Indonesia. Poor. (D'Angelo-PA)
4052.5 0249		GUATEMALA, Radio Verdad, 0249-0322 Nov 4, seems to be back on
		old familiar channel with rustic music with some Spanish talk by woman
		announcer. Male preacher at 0303 alternating with group chorus.
		Poor. (D'Angelo-PA)
4750	1152	BANGLADESH, Bangladesh Betar, 1152-1209 Nov 3, local vocals with
		flutes with several appouncements at 1158 in listed Bengali

announcer at 1200. Poor. (D'Angelo-PA)
4754.9 2346 BRAZIL, Radio Imaculada Conceicao, 2346-0013 Oct 21, talk by man and two women in Portuguese with several mentions of "Brasil."
Religious talk by man announcer. Segment of instrumental music at top of hour followed by ID and several announcements. Fair. (D'Angelo-PA)

language. Flute music to tone, ID and news read by a woman

4775	0112	PERU, Radio Tarma, 0112-0154* Nov 11, two male announcers in Spanish with coverage of futbol including a gooooal at 0131. Soft instrumental music at 0149 followed by a male announcer with canned
4976	2147	ID and frequency announcement as part of sign off routine. Soft instrumental music continued until carrier was terminated. Poor. (D'Angelo-PA) UGANDA, UBC Radio, 2147-2225* Nov 3, series of romantic songs with short announcements by a man announcer in English. ID and several announcements at 2157 followed by "La Bamba". More local music later with carrier terminated while man announcer was
4985	0214	speaking. Poor to fair. (D'Angelo-PA) BRAZIL, Radio Brasil Central, 0214-0322 Oct 30, man announcer with long talk in Portuguese. ID at 0230 followed by music program hosted by another man announcer. Poor to fair. (D'Angelo-PA)
5925	1056	CHINA, China National Radio – Beijing, *1056-1112 Nov 4, soft instrumental music to opening ID and announcements at 1100 by a woman announcer in Chinese language. News with a man and woman alternating items with short music segments between items.
6025	2330	Instrumental music at 1109. Poor to fair in noisy conditions. (D'Angelo-PA) DOMINICAN REPUBLIC, Radio Amancer, 2330-0012 Nov 2, man and woman studio announcer interviewing a woman on the phone in Spanish. More talk with short music segments until ID at 0006 followed by vocal selection. Poor to fair. (D'Angelo-PA)
6070	0254	BRAZIL, Super Rádio Deus é Amor via Radio Capital, 0254-0325 Oct 31, man announcer with excited preaching in Portuguese. Vocals until 0305 when another man announcer began more preaching. Possible ID at 0322 but weak signal and noisy made copy difficult. Poor. (D'Angelo-PA)
6165	2151	CHAD, Radio Chad, 2151-2219 Oct 31, highlife music hosted by a man
6280	2153	announcer with French talks. Id and news at 2200. Fair. (D'Angelo-PA) INDIA, All India Radio – Bengaluru, 2153-2215 Nov 10, traditional Indian vocals followed by a pop music selection. ID at 2159 by a woman announcer in English: "You are tuned to the General Overseas Service of All India Radio. Please standby for the news." The news followed at 2200 followed by a commentary on China.
6925L	J 0318	Good signal with //9445 only fair. (D'Angelo-PA) PIRATE (No. Am.), Germany Calling, 0318-0329* Nov 1, station playing old German songs with apparent man announcer with German language talks. Possible ID at closedown as " Radio" before carrier was terminated. Thanks Greg Majewski for the identification. Poor. (D'Angelo-PA)
6925U	J 2305	PIRATE (No. Am.), Thinking Man Radio, 2305-2321* Nov 6, man announcer with several IDs and e-mail address (thinkingmanradio@gmail.com) for reception reports playing rock music. Fair signal but may have been having transmitter problems as one break noted at 2320 and sudden off at 2321 suggesting possible transmitter problem ending broadcast. (D'Angelo-PA)

- 6960U 2333 PIRATE (No. Am.), WEAK Radio, 2333-2346* Oct 31, Halloween broadcast with eerie music and series of ads for various horror movies. Off with ID: "WEAK Radio turning off. Thank you for listening." Fair to good. (D'Angelo-PA)
- 7245 2349 MAURITANIA, Radio Mauritanie, 2349-0016 Nov 5, music program hosted by a man and woman with Arabic talks. Another man announcer at top of the hour with apparent ID and possible frequency announcement. Music program continued hosted by man and woman announcers. Good signal. (D'Angelo-PA)
- 7290 1945 SLOVAKIA, IRRS via Rimavska Sobota, 1945-2000* Nov 6, tuned in to hear opening of Allen Graham with DX Partyline program. A man announcer gave ID, address for reception reports, and closedown announcements. Poor to fair. (D'Angelo-PA)

My thanks to all the contributors for this month.

I would like to wish all members a great Christmas and as good New Year.

Keep those contributions rolling in while we still have SW Broadcasters to listen to.

Ken Baird

CONTRIBUTORS FOR THIS MONTH

- BCM Bryan Clark, Mangawhai AOR7030+ with EWE antennas targeting North, Central and South America, Alpha Delta Sloper to E and 100m BOG to NE.
- **CC** Cliff Couch, Paraparaumu, ATS 803A, 60m horizontal loop.
- **DD** Des Davey, Te Kuiti, Kenwood R1000, FRG 7700, 450m, 50m long wires.
- Ian Cattermole, Blenheim, JRC 535, Icom IC-746 Pro, EWE.
- **KAB** Ken Baird, Christchurch, Kenwood R5000, R1000, 18m Wire, SW Eavesdropper.
- **KB** Kelvin Brayshaw, Levin, ATS 505, Eton E5, Indoor Loops.
- **(D'Angelo-PA)** Richard D'Angelo Wyomissing USA, Ten-Tec RX-340, Eton E1, Eton E5, R8B, Lowe HF 150, Alpha Delta sloper, RF Systems mini windom, Datong FL3, JPS ANC.

Contributions to this column may be sent to

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BANDWATCH OVER 9MHZ

Editor

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details short. To avoid duplication, please check that your loggings have not already been entered during the last three months and **send your loggings early**, **don't wait until the closing date!**

KHZ UTC	Country, Station, Programme, & Reception details
9325 1100	N.Marianas. RFA. Fair in Lao after English ID. 9/11, IC
9430 2030	PORTUGAL. KBS via Sines. VG in Arabic. 6/11, IC
9460 0315	SEYCHELLES. BBC. Poor in English. 4/11, IC
9460.050412	SOUTH AFRICA BBC World Service to West Africa via Meyerton good in
	EE but surging fades. Closed 0459.14/11, BCM
9500 0858	CHINA, CRI, home service, gd, 11/10, DD
	AUSTRALIA, Rad. Austr, with "Australia talks" v/gd in EE, // 9475, 11/10, DD
	BRAZIL Radio Globo, Sao Paulo well off nominal 9585 with preacher in
	PP. 'Voz de Liberacion' promo at 0433 // 9564.97 on 26/11. BCM
9595.051801	SOUTH AFRICA Family Radio to West Africa via Meyerton good in
	African dialect with annots & tuning signal 14/11. BCM
9650 0902	KOREA, KBS, gd in Korean (JJ, ED), 11/10, DD
9690 0330	SPAIN. CRI via Noblejas. VG in English. 4/11, IC
9740 0908	SINGAPORE, BBC, with news update, fair in EE, 11/10, DD
9740 1804	CHINA RCI, via Kashi fair-good with 'Maple Leaf mailbag'. Parallels
	11845 via Vatican fair, Sackville 15365 & 17790 both poor in EE. 14/11 BCM
9755 0507	RWANDA, DW, Poor in EE drama & grammar lesson, 14/11, KB
9800 0848	MONACO,TWR, OM with religious message, ID at 0850, gd in EE,
	//6105 less clear,16/11, CC
9830 0913	CHINA, CNR-1, with home service, fair, 11/10, DD
9840 1230	VIETNAM. VOV. Fair in English. 20/11, IC
9895 0840	VATICAN. RNW via Santa Maria de Galeria. Good in Dutch. 14/11, IC
9975 1658	KUWAIT, VOA, Rad.Ashna, OM & YL speaking, gd in Pashto, //9770
	stronger, 21/11, C
9985 0917	· · · · · · · · · · · · · · · · · · ·
11710.620254	ARGENTINA RAE Buenos Aires with DX segment talking about Radio
	Okapi. Clear but surging atmospheric levels. Het from 11710 after 0300.

11725

Gd in EE, 4/11, BCM

2026 NEW ZEALAND, RNZI, to the Pacific, fair in EE, 1/11, DD

11740	0949	SINGAPORE, NHK, v/gd in JJ, 11/10, DD
11760		CHINA, CRI, with China housings, exc in EE, 17/10, DD
11815		BRAZIL. Radio Central. Good in Portuguese. Good ID's. 4/11, IC
11815	0419	BRAZIL Radio Brasil Central very good in PP with ident, time check
		and promos for 'madrugada informada' 29/11. Also noted in clear at
		1903 on 28/11. BCM
11830	1836	SOUTH AFRICA. AWR via Meyerton. Poor in English. 19/11, IC
11875		RWANDA, DW, Poor in GG to seAsia, I/S 2215, 19/11, KB
11925	1738	SOUTH AFRICA AWR via Meyerton fair in Swahili for Africa. Slight het
11720	1700	whine from 11925.2 presumed Bandierantes Brazil. 14/11, BCM
11955	1600	GERMANY. Radio Sadaye Zindagi via Wert. Good in Dari. (this one
11755	1000	arranged by BVB) 16/11, IC
11985	0250	INDIA. AIR. VG in Kannada via Bangaluru. 4/11, IC
12010		CUBA. RHC. Good in Spanish. 17/11, IC
		CHINA, CNR-1, with home service, 11/10, DD
		UNID (IRELAND?) very weak signal with hymns – likely Reflections
12233.	011723	Europe scheduled here Sundays only. 14/11, BCM
12759	1026	CHAGOS ISL, Diego Garcia, AFRTS, with news in English, fair, 11/10, DD
		THAILAND. Radio Mashaal. Fair in Pashto via Udorn. 21/11, IC
		UAE. Radio Dabanga. via Dhabbaya. Good in Arabic. 21/11, IC
		PALAU Radio Australia relay strong with EE news, parallel 13630 very
10070	2200	strong, 15230 good, 15240.15 fair, 15515 vgd, 15560 vgd. 10/11, BCM
13600	0653	IRAN, VOIRI, 2 YL's speaking, gd in FF,//15560 weaker, 8/11, CC
13610		CHINA, CNR-1, with home service, fair, 17/10, DD
13635		FRANCE. Bible Voice BC via Issouden. Good in English. Sundays only. Off
		at 1430utc. 21/11, IC
13635	1855	SRI LANKA, VOA, with news in English, gd, 2/11, DD
		FRANCE, RFI, 2 Om's speking, gd in FF, //17620 weaker, 16/11, CC
13695		INDIA, AIR, v/gd in Tamil, 17/10, DD
13700		BONAIRE, RNW, Fair in Dutch to wAf, 15/11 KB
13715		SLOVAKIA, Rad.Slov,Int, YL speaking, gd in Slovakian, //15460 same. 12/11, CC
		UAE. Radio Dabanga. via Dhabbaya. Good in Arabic. Many IDs. 30/10, IC
13755		GERMANY. AWR via MB. VG in Mandarin after English IDs. 2/11, IC
		NIGERIA Voice of Nigeria fair in the clear in EE with ident &
		commentary about minority tribes 7/11. BCM
15190	1750	PHILIPPINES, Rad.Pilipina, Male vocalist, distorted, f/gd in EE, //11890,
		11730, the same,16/11, CC
15190	1905	ECUATORIAL GUINEA Radio Africa on top of Radio Pilipinas with
	.,	American religious prgms. Poor signal but able to catch promos for
		the "Gospel of the Kingdom' prgm at 1926 followed by EE ident for
		Radio Africa and into 'The Message of Freedom' prgm. Covered by
		Inconfidencia Brazil from 1928. Have been trying for months to get a
		definite ident on this. 28/11, BCM
15225	1830	BONAIRE, VOA, Good in EE s/on, & FF to wAf, 15/11, KB
15240	1904	SOUTH AFRICA. AWR via Meyerton. Fair in Fulfulde. 19/11, IC
		The state of the s

15340	1145	AUSTRALIA, HCJB, v/gd in EE, 11/10, DD
		OMAN Radio Sultanate of Oman at good level with EE ident and news
		headlines Pop music prgm relayed from local EE lang FM channel
		followed. Strongest I've ever heard this, usually poor signal. 16/11, BCM
15370	2044	CUBA, Rad,Habana, with mailbag, fair in EE, 1/11, DD
		TAIWAN. AWR via Taipei. Weak in Vietnamese. Sat. only. (Difficult log.) 6/11, IC
		PHILIPPINES. FEBC. Good in Chinese. 6/11, IC
15580	0900	N.Marianas. KFBC. VG in Indonesian. 14/11, IC
15580		BONAIRE, VOA, Fair in EE nx to wAf, 15/11, KB
15670		CHINA, CNR-8, with home service, gd, 17/10, DD
		PALAU. WHRI. Fair in English. 11/11, IC
15680	1000	PALAU. Radio Free Sarawak. Weak in Malay sign on but much better
		by 1030utc. 18/11, IC
		BONAIRE, R.Japan poor in JJ & mx to sAm, ID 2358, 19/11 KB
		RUSSIA, VOR, OM talking about war spy, gd in EE, //17805 the same, 12/11, CC
17735		, , , , , , , , , , , , , , , , , , , ,
17855		
		INDIA, AIR, fair in Hindi, 14/10, DD
19010	0840	KUWAIT, RFA, 2 OM's speaking, surging and scratchy, fair in Pashto,
01/10	0040	//17530, 16/11, CC
21610		SPAIN, REE Madrid good level in SS, // 21540 fair. 30/11, BCM
21630	1853	USA WHRI Cypress Creek SC with Bishop Shelton Roswell, fair
		strength. Closing annots and off 1857 Only signal hrd on 13 metres
		this day/time and inaudible next 2 mornings. 28/11, BCM

OVERSEAS LOGGINGS. All may not be audible in NZ at the times listed

feature on Australian-born opera composer. Parallel 17710 was

21780 0933 SRI LANKA Deutsche Welle via Trincomalee very good in EE with arts

stronger. 30/11, BCM

kHz UTC Country, Station, Programme, & Reception Details 9455 0057 PORTUGAL, RDP Intern, pop music until series of promotional announcements prior to time pips at top-of-the-hour. ID by YL followed by sports program featuring much discussion about Europa League. ID at 0116 mentioning both RDP Internacional and Radio Portugal. Pop music followed hosted by YL. Good in PP, 5/11, RDA 9560.6 0349 CLANDESTINE (Eritrea), Voice of Peace and Democracy via Radio Ethiopia, open carrier until Horn of Africa music starting at 0355. At 0358 man announcer in listed Tigrinya with ID and opening

9645 0330 ROMANIA, RRI, YL with features in English followed by ID at 0330 and a feature about the European Union. Fair although somewhat noisy conditions. 28/10, RDA

0420. Poor signal and no sign of //7165. 3/11, RDA

announcements followed by news. Program of music beginning at

- 11690 0359 SOUTH AFRICA, Radio Okapi Meyerton, opening ID and freq.
 announcement in French with several "Okapi" IDs noted afterward.
 News by a man followed by discussion features. ID and closedown announcements by another man announcer prior to carrier cut.
 Good signal, 10/10, RDA
- 11710 2324 CHINA, CNR-1, OM & YL announcers hosting news features in Chinese language. Brief musical interludes and remote reports. Fair but some flutter, 21/10, RDA
- 11765 0051 BRAZIL, Super Rádio Deus é Amor, man announcer preaching in Portuguese language. ID and frequency announcement at 0102 followed by group vocals. More man preaching at 0109. Fair, 30/10, RDA
- 11815 0048 BRAZIL, Radio Brasil Central, nice program of Brazilian pop music hosted by OM with Portuguese language talks. Full ID and frequency announcement at 0100 followed by more great music programming. Good signal but //4985 was poor, 4/11, RDA
- 11875 0018 CHINA, CRI Urumqi (presumed), talk by OM in listed Mongolian language with music selections. Poor to fair with quite a bit of flutter, 1/11, RDA
- 11905 1529 SRI LANKA, Radio Ceylon, sudden on with ads for National Savings
 Bank mentioning "Economic News from National Savings Bank, you
 family bank." OM with ID and TC in English with ID for 1530
 program: "Radio Ceylon calling out to India." OM & YL alternating talk
 with man in English and woman in Hindi language. Played mainly
 local music but there were some others such as one Beatles selection,
 with man and woman hosts periodically introducing songs. Fair, 31/10, RDA
- 13745 0003 THAILAND, Radio Thailand, OM & YL announcer team with news in EE. ID at 0011 followed by several promo announcements. A man gave TC and ID followed by more news. ID at 0021: "You are listening to Radio Thailand news." More promos, short features and IDs until carrier terminated mid-sentence. Poor, 11/11, RDA
- 17620 1559 AUSTRIA, Austrian Military Radio Society, Special broadcast with Morse code opening followed by several IDs and frequency announcement all in German although many English words. Man and woman with talk followed by one of many bursts of Morse code used during transmission. All long talks in German language with nice ID at closedown. F/gd signal. 7/11, RDA
- 17620 1600 AUSTRIA AMRS, Austrian Military Radio Society, special 50th anniversary program Ex.t signal in GG, Morse code a few times but mostly talk and interviews mention of the Congo noted several times (the AMRS was formed after communication with Austrian military personnel was lost during the Congo fighting of 1960). Various ham calls given, also fqys, AMRS URL, etc. Slight hum on signal got worse around 1620+. At 1630 i switched to 14210 and hrd the Vienna end of AMRS ham QSOs, 7/11, JB
- 17700 1622 ASCENSION ISLANDS, South Sudan Interactive Radio Service (presumed), man with long talk in Arabic with many mentions of

- "Sudan". Some instrumental bridge music followed by talk by OM & YL. Carrier cut in mid-sentence. P/fair. 21/10, RDA
- 17725 1700 CLANDESTINE (Uganda), Radiyo Y'Abaganda via Issoudun, France, sudden on with African music followed by a man announcer in studio interviewing another man from a remote location. Carrier cut suddenly at 1715. Fair. 6/11, RDA
- 21695 1438 LIBYA, Voice of Africa, music followed by a woman with ID and news in English at 1441. Fair to good signal. //17725 was poor. 23/10, RDA

Logging of the month

Bryan Clark with Brazil, Radio Inconfidencia on 16/10/10, Freq. 15189.7 at 5KW
See November BW over 9

Contributors this month

- **BCM** Bryan Clark at Mangawhai with AOR7030+ and Alpha Delta Sloper, EWEs to NE and E, plus various 100 metre BOGs to the Americas
- **CC** Cliff Couch, Paraparaumu, Sangean ATS 803A, 60 m horiz.loop
- **DD** Des Davey, Te Kuiti, FRG-7700 and Eton E-5, 50M long wire.
- IC Ian Cattermole, Blenheim, JRC NRD-535, Antenna EWE
- JB Jerry Berg, Lexington, MA, USA, Drake R8 & Eton E1-XM receivers; 19, 41 & 90 mb dipoles
- KB Kelvin Brayshaw, Levin, Eton E5, indoor coax loop
- RDA Richard d'Angelo, Wyomissing, Ten-Tec RX-340, Eton E2, Drake R-8B, Lowe HF 150, Eton E5, Alpha/Delta DX sloper RF systems Mini Windom, Datong FL3, JPS ANC-4



ENGLISH IN TIME ORDER

Editor Yuri (George) Muzyka Auckland

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

The Solar Flux is aired daily over WWV/WWVH on 2.5, 5, 10, 15 and 20 MHz Shortwave at 18 & 45 minutes past every hour. For propagation forecasts please refer to Mike's column.

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

73 - Yuri, ZL1GYM http://www.linradio.com/sources.htm

NEW ZEALAND CONTRIBUTIONS

Time	Freq	Station	Station	Log	DXer
(UTC)	(kHz)	Name	Country	Date	Name
0254-0300	11710.62g	RAE	ARGENTINA	4/11	BCM
0305	15680f	WHRI	USA	11/11	IC
0310	15355g Radio	Sultanate of Oma	n OMAN	16/11	BCM
0315	9460p	BBC	UK	4/11	IC
0330	9690g	CRI	CHINA	4/11	IC
0412-0459	9460.05g BBC	World Service	UK	14/11	BCM
0420	7305p	RRI	ROMANIA	14/11	IC
0438-0500	7230p	Channel Africa	STH AFRICA	28/11	BCM
0500	6130f	RDW	GERMANY	2/11	IC
0507	9755p	DW	GERMANY	14/11	KB
0519-0530	6190f	BBC	UK	9/11	KB
0601	7315g:13680f	RFI	FRANCE	19/11	BCM
0645	7360g	Radio Vaticana	VATICAN	19/11	IC
0650	7370g	RRI	ROMANIA	19/11	IC
0709	5025g	VL8K	AUSTRALIA	12/11	KAB
0728	5755g	WTWW	USA	12/11	KAB
0732	5890f	WWCR	USA	12/11	KAB
0735-0740	5935	WWCR	USA	12/11	KAB
0737	17665g:17805g	VOR	RUSSIA	12/11	CC
0800	7220p	Bible Voice BC	AUSTRALIA	7/11	IC
0820	5935g	WWCR	USA	11/10	DD
0829	5950g	WYFR	USA	11/10	DD
0836	6170g	RNZI	NEW ZEALAND	11/10	DD
0841	6090f	AWR	AUSTRIA?	11/10	DD
0848-0850	6105:9800g	TWR	MONACO?	16/11	CC

0908	9740f	BBC	UK	11/10	DD
0917	9985p	WWCR	USA	11/10	DD
0933	17710e:21780g	Deutsche Welle	GERMANY	30/11	BCM
0940	9475:9580g	Radio Australia	AUSTRALIA	11/10	DD
1002	3185p	WWCR	USA	5/10	DD
1026	12759f	AFRTS	USA	11/10	DD
1145	15340g	HCJB	ECUADOR	11/10	DD
1230	9840f	VOV	VIETNAM	20/11	IC
1345	2325g	ABC	AUSTRALIA	8/10	DD
1245	11760e	CRI	CHINA	17/10	DD
1350	4970f	AIR	INDIA	17/10	DD
1358	4810	AIR	INDIA	14/10	DD
1406	4975f	V of Russia	RUSSIA	17/10	DD
1415-1	430 13635g	Bible Voice BC	AUSTRALIA?	21/11	IC
1521	4920g	AIR	INDIA	8/10	DD
1525	4975f	V of Russia	RUSSIA	8/10	DD
1555	5975g	BBC WS	UK	8/10	DD
1750	11730g:11890g:15190g	Radio Pilipina	PHILIPPINES	16/11	CC
1756	7420g	CRI	CHINA	23/10	DD
1804	9740g:11845f:15365p:1779	Op RCI	CANADA	14/11	BCM
1815	15120.03f	Voice of Nigeria	NIGERIA	7/11	BCM
1836	11830p	AWR	STH AFRICA?	19/11	IC
1847	4975f	V of Russia	RUSSIA	20/10	DD
1855	13635g	VOA	USA	2/11	DD
1912-1		Bible Voice	AUSTRALIA?	12/11	KAB
1920	6080p	R Australia	AUSTRALIA	12/11	KAB
1930	15580f	VOA	USA	15/11	KB
	6010p:7320f:11695p:11860p	VOIRI	IRAN	24/11	BCM
2026	11725f	RNZI	NEW ZEALAND	1/11	DD
2044	15370f	Radio Habana	CUBA	1/11	DD
2203	13590g:13630e:15230g		AUSTRALIA	10/11	BCM
2203	15240.15f:15515g:15560g	Radio Australia	AUSTRALIA	10/11	BCM



SHORTWAVE RECEPTION FORECAST

FOR JANUARY 2011

Editor Mike Butler email

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The Shortwave Bands below have given good reception in NZ within the recent Solar Flux Index range of 75-92. An * = good reception only above Index of 75. Although daytime reception is not so plentiful in January, evening (6-9UTC) hours are the ones in which signals from Europe, Africa, Russia and Asia are at their very best in the year.

Times—Shortwave Bands:

UT	C MHZ	UT	C MHZ	UT	C MHZ	UT	C MHZ	UT	C MHZ
Europe		Africa		Russia		Australia		Cent America	
18	4-13	18	5-11-15*	18	6-7	18	6-11	18	-
19	6-11	19	9-11,13*	19	7	19	5-11	19	15-17
20	6- 9	20	9	20	ı	20	6-11	20	11,17*
21	9	21	9,15	21		21	6-15	21	-
22	11*	22	1	22	-	22	11-17-21*	22	-
23	ı	23	15	23	ı	23	13-17,21*	23	-
0	ı	0	ı	0	•	0	13-17,21*	0	-
1	9	1	ı	1	•	1	13-21	1	13
2	9,11*	2	ı	2	•	2	13-21	2	-
3	7-9	3	9	3	7	3	13-17-21*	3	-
4	7-9	4	9,11*	4	7	4	13-15,17*	4	11*
5	6-9	5	5-9	5	7, 21*	5	11-17	5	9*11*
6	6-17,21*	6	6-7, 9*	6	6-17,21*	6	11-17	6	5-11
7	6-17,21*	7	6-9	7	6-17,21*	7	5-17	7	5-11
8	6-17,21*	8	9*	8	6-17	8	5-17	8	5-11
9	6-17,21*	9	9*,15	9	6-17	9	2-15	9	5- 9

Middle East		Asia		North Pacific		Nth America		Sth America	
18	6-9,11*	18	6-9-15*	18	6-9-15*	18	17*	18	-
19	6-9,11*	19	6-9-13*	19	6-15	19	7-13-17*	19	-
20	7-9	20	9	20	9-13	20	9-13	20	-
21	-	21	ı	21	13-17*	21	9-17	21	11,17*
22	-	22	ı	22	11-17	22	17	22	-
23	-	23	11-15*	23	15-17	23	ı	23	-
0	-	0	15*17	0	15-17,21*	0	ı	0	-
1	-	1	11-17,21*	1	15-17,21*	1	ı	1	11*
2	9*	2	11-17	2	13-17,21*	2	-	2	11
3	9-11	3	11-21	3	15-21	3	7-11	3	11
4	7-11,13*	4	11-17,21*	4	15-17,21*	4	7-11	4	11
5	7-11,13*	5	11-21	5	9-21	5	6-9	5	11
6	7-11,13*	6	11-21	6	5,9-21	6	5-9	6	5-6,11
7		7	7-17,21*	7	5-17,21*	7	5-9	7	5-9,11*
8	9	8	6-17,21*	8	5-17	8	5-9	8	5-9,11*
9		9	5-21	9	4-15	9	3-9,11*	9	5-9,11*

The monthly average Solar Flux rose from 81.7 (Oct) to 82.6 in November.

SHORTWAVE REPORT

Editor

Ian Cattermole email

Blenheim shortwave.report@radiodx.com



SINGAPORE

Radio Australia beings Singapore relay station begginning Nov 22.

Radio Australia has been granted access and use of the Kranji shortwave relay station by Singapore's Media Development Authority (MDA). Starting Monday 22 November two transmissions per day will be relayed to Burma and China:

Burmese: 0100-0130 UTC on 11780 kHz 340deg 250kW English: 1100-1300 UTC on 6140 kHz 13deg 250 kW

Reception reports would be appreciated from those living in the target areas. The ad-

dress is: Radio Australia, GPO Box 428, Melbourne, Australia 3001

Or via the Radio Australia website: www.abc.net.au/ra/ (Source: Radio Australia via

Mike Bird/R Netherlands Media Network)

CVC B10

1 Africa

0400 0600 9430 English Nigeria/West Africa Lusaka 100 315 0 0600 2000 13590 English Nigeria/West Africa Lusaka 100 315 0 1700 2200 4965 English Central/Southern Africa Lusaka 100 0 0 2000 2200 9505 English Nigeria/West Africa Lusaka 100 315 0 Radio Christian Voice 0500 1700 6065 English Central/Southern Africa Lusaka 100 0 0

CVC La Voz

1100 1200 9780 Spanish Northern South America Santiago 50 0 0 1100 2200 9635 Spanish Southern South America Santiago 50 30 30 1200 0100 17680 Spanish Northern South America Santiago 50 0 0 1800 2000 17860 Spanish Brazil (DRM) Santiago 15 45 0 2200 0100 9635 Spanish Southern South America Santiago 50 30 30

The Voice Asia

0000 0400 6260 Hindi North India Tashkent 100 153 0 0100 0400 9975 Hindi North India Tashkent 100 131 10 0400 1100 11805 Hindi North India Tashkent 100 153 0 1100 1400 9500 Hindi North India Tashkent 100 153 0 1400 2000 6260 Hindi North India Tashkent 100 153 0 (Alokesh Gupta. New Delhi)

SARAWAK. (NON)

New clandestine.

7590, R Free Sarawak, aimed as an alternative voice for Sarawakians, went on air on Nov 15. In an e-mail to Free Malaysia Today, the Bruno Manser Foundation, said that the new alternative radio station will have two daily broadcasts on shortwave, presumably in Iban and Bahasa Malaysia. "It aims at Sarawak's rural communities who lack access to independent media", stated the e-mail. It is an open secret, that the media in Sarawak are strictly controlled by the state government under Chief Minister Abdul Taib Mahmud and logging companies who own and control all major media outlets in the state. The transmission details of R Free Sarawak are as follows:

- * 1st transmission: 0630-0730 local time (2230-2330 UTC) on 7590 kHz.
- * 2nd transmission: 1800-1900 local time (1000-1100 UTC) on 15680 kHz.

The e-mail had also attached a message from the producers of R Free Sarawak. Below is the message:

"Please send the details to all your Sarawak friends, so that they know the existence of the radio-which will become an alternative news source to the Sarawakians, especially to those who stay in the interior. The folks in the interior have been fed with a monotonous one-sided views from the ruling parties - if at all they can receive the TV and radio transmissions. So they need another avenue - and R Free Sarawak intends to fill in this gap." (Source: www.freemalaysiatoday.com via DSWCI)

Listed as being via Palau with 100KW. So 15680khz will be a real possibility here at 1000utc. ED.

WINB

WINB adds new network to line-up

Hans Johnson, Frequency Manager of WINB, reports that station WINB, is carrying Radio 2:11 Network, and is looking for listeners to send in their reception reports. The Radio 2:1 Network website is www.thestreamtv.com/welcome_003.htm . Reception reports may be sent to info@winb.com or P.O. Box 88, Red Lion, PA 17356 USA.

English B10: Effective: 31 October 2010 - 27 March 2011 All times UTC. targeted to North and Central America

0000-0400 9265am

1000-1600 9265am

1500-1500 smtwhf 13570am

1600-1700 Sat 9265am

1600-1700 smtwhf 13570am

1700-1800 Sat 9265am

1800-1900 smtwhf 13570am

1800-2000 Sat 9265am

1900-2000 smtwhf 13570am

2000-2100 Sat 9265am

2000-2100 smtwhf 13570am

2100-2200 9265am

2100-2200 smtwhf 13570am

2200-0000 9265am (FCC via Hans Johnson, Frequency Manager)

ITALY

IRRS change.

Please notice that effective Nov. 13, 2010, IRRS-Shortwave (the Italian Radio Relay Service) will leave the current frequency of 7290 kHz for our daily evening broadcast from 1900-2000 UTC.

Our new daily frequency from 20:00-21:00 CET (19:00-20:00 UTC, winter) will be 6090 kHz to Europe, North Africa and Middle East. We are making this change to improve reception and avoid interference by other stations in our target area.

There is no other expected changes to our current schedule.

Your letters and comments on our programs are always welcome by email at: reports (at) nexus (dot) org or by snail.mail to: IRRS-Shortwave, PO BOX 10980, I-20131 Milano, ITALY

ROMANIA:

English language B10 broadcasts. 0100-0156 6145 7325 0400-0456 6130 7305 9690 11895 0630-0656 !6020 7370 17780 21600 1200-1256 11970 15430 15460 17765 1800-1829 #6020 1800-1856 *6065 7415 2130-2156 6030 6115 7310 7380 2300-2356 5915 6015 7220 7300

USA:

Frequency changes of WWCR#1 in English from Nov 7: 2100-0100 NF 7465 WCR 100 kW 046 deg, ex3255 0100-0200 NF 7490 WCR 100 kW 046 deg, ex3255 (R BULGARIA DX MIX News, Ivo Ivanov, via wwdxc.)

VIETNAM

Voice of Vietnam - B10 English

Broadcast daily/ target areas: am (Americas) as (Asia) eu (Europe) me (Middle East)

English

0100-0130 6175am 0230-0300 6175am 0330-0400 6175am

1000-1030 9840as 12020as

1100-1130 7280as

1130-1200 9840as 12020as

1230-1300 9840as 12020as

1330-1400 9840as 12020as

1500-1530 7280as 9840as 12020as

1600-1630 7220me 7280eu 9550me 9730eu

1900-1930 7280eu 9730eu 2030-2100 7220me 7280eu 9550me 9730eu 2330-0000 9840as 12020as (William Hague, Austria-NWDXC/WWDXC (part of VO Vietnam B10)

MADAGASCAR

Madagascar World Voice Update

by Dick Brackett reprinted from World Christian Broadcasting Newsletter

I guess you could say that progress can be a matter of perspective and viewpoint. To a rabbit, a 100-yard dash takes just a few seconds, whereas to a turtle it may be a day's journey. That's how we view our progress in Madagascar.

We have made huge strides and accomplished much. But there is still much to do. Several unexpected setbacks have not deterred our progress in Madagascar, just caused us to miss a few deadlines. In spite of adverse weather, governmental upheaval and slow shipping, engineer Kevin Chambers and his crew of eager Malagasy workmen have managed to complete a monumental amount of work.

Buildings have been constructed, all four towers are firmly in place, diesel-powered generators are fully functional and three array antennas have been installed. The three transmitters have been built, tested and crated and are awaiting the final shipment to Madagascar from the port in Houston, Texas.

Our engineer, Kevin Chambers, has shown great ingenuity. A complicated, yet amazing simple system of counter-weights has been installed that will help to keep the array antennas balanced as they are installed. Using a network of pulleys, wires and sandbags, the system allows the antennas to give with the winds, then return to their original position.

Upon completion of the station, several new language services will be added to the daily broadcast schedule. Many hours of new programming have already been recorded in Arabic, English for African cultures, Spanish and Portuguese.

These languages will join the English, Mandarin Chinese and Russian programs already being broadcast from [NASB member station KNLS in] Anchor Point, Alaska, giving us effective coverage of the world's population.

(NASB Newsletter/Nov News-10)

WARKWORTH SATELLITE DISH

Telecom NZ has gifted its now-surplus radio antenna to the Auckland University of Technology, to be converted into a radio telescope.

AUT has been granted a license to operate the Warkworth 2 antenna, located near Auckland, as what will become New Zealand's largest radio telescope.

It will be used by the university's Institute for Radio Astronomy and Space Research to help study star formation, the centre of the Milky Way and gaseous galactic objects.

The dish had until now been used by Telecom NZ to send and receive satellite communications, including phone calls, data, internet traffic and TV content. (via Ray Crawford and WIA news broadcast on 29 November, 2010)

UTILITIES

Editor
Arthur De Maine

email utilities@radiodx.com



Welcome to this last Utility page for 2010. I would like to wish everyone a very Happy Christmas and best wishes for the New Year.

My thanks to those members who have contributed to this section over the past year I look forward to your continuing support in 2011. Also my thanks to Geir from Norway for sharing with us some of his DXing from Norway.

This month everybody must be getting ready for Christmas as we have a very small contribution I hope members will do a little Utility DXing over the holiday period.

FREQ UTC DETAILS OF TRANSMISSION

5805.1	0300	ZKLF RadioFax weather map good	ABD	5/12
8867	0751	SANFRANCISCO / NAVY-100 SC AJFL, 8867/5643	KB	28/11
8867	0758	NADI / NZ-789 Posn FL300. Requests FL370 (Cleared)	KB	28/11
8867	0810	AUCKLAND / JETSTAR-183 FL370 SC 8867/5643	KB	28/11
9457.1	0400	ZKLF Radiofax weather map good	ABD	5/12
11387	0730	SYDNEY VOLMET Australian weather very good	ABD	5/12
11396	0828	PACIFIC-1008 / BRISBANE Cleared to leave. Reach FL 330 by 084	10.KB	28/11
13282	0815	HONGKONG VOLMET, Wx for Hong Kong, Guangchou, Taipei	,	
		Kaohsiung, Manila, etc	KB	27/11

CONTRIBUTORS

KB	Kelvin Brayshaw, LEVIN. Eton E5, indoor coax loops.
ABD	Arthur De Maine, Kakanui, Drake R-8. 25m EWE

OVERSEAS LOGGINGS

FREQ	UTC	DETAILS OF TRANSMISSION
410	2056	3YVE/Rem Vision helibeacon, pos near Montrose, Scotland. In the Rem
		Offshore fleet http://www.rem-offshore.no/default.aspx?menu=691
		this site indicates it is under Isle of Man flag, but that must have changed
		to Norwegian as they carry a 3Y call sign 23/11
2182	2036	Labrador Coast Guard Radio, marine weather broadcast on 2598 23/11
2182	2204	Bjørnøya Meteo announcing weather forecast on MF 1757 kHz and
		VHF channel 12. English and Norwegian. This is Bear Island,
		between Svalbard and Norway. Used to be called "Radio" when
		I worked there in the 1980ies, nowadays "Meteo". This blog from the
		island http://bjornoya.blogspot.com/2008_01_01 archive.html is not at

		all up to date, but includes a few nice pictures from the main station.25/11	
2182	0709	Brixham and Falmouth Coast Guard, maritime safety information broa	dcast
		on 2226 kHz. http://www.coastalradio.org.uk/britishcg/Falmouth/falmout	th.htm
		has further info about Falmouth CG	15/11
5598	1915	SVW 14EX wkg Shanwick. 56N 20W FL 430 westbound. Bizjet from	
		Global Jet Luxembourg http://www.globaljetlux.com/ call sign "Silve	r
		Arrows" (not used this time)	14/11
8930	0952	Airbus 518B wkg Stockholm LDOC (all this frq), heard again for rad	io
		check 0955. C/n 4518?	25/11
8930	1010	D-CYOU clg Stockholm, no reply. "Position Germany". Cessna 680	
		Citation Sovereign bizjet from Munich based company Comfort Air	25/11

CONTRIBUTORS

Geir Stokkeland, Vestnes, Norway

Arthur



Queenstown Airport

FM NEWS & DX

Editor Adam Claydon Palmerston North

email fm@radiodx.com



TRN Nelson Frequency Changes

The Radio Network in Nelson has a number of changes happening on the evening of Tuesday 23rd November:

Classic Hits moves from 89.8FM to 89.6FM
ZM moves from 97.0FM to 96.8FM
Radio Hauraki moves from 90.6FM to 90.4FM
Coast moves from 100.2FM to 100.8FM

(Radio Network, 29 November 2010, http://www.radionetwork.co.nz/AboutUs/PressReleases/Detail.aspx?id=248)

(The Nelson Mail, 25 November 2010, via Brian Palamountain)

RNZ Frequency Change notification

The Radio New Zealand National FM frequency in Greymouth (Paparoa site) will be changing from 101.5 to 101.1. The transmitter will close down starting at 2210 on Tuesday 7 December, and will be back on air on the new frequency by 0450 on Wednesday 8 December. Because this involves a site shutdown, Radio New Zealand Concert will also be off-air for that period.

The Radio New Zealand frequencies at our Grampians (Nelson) transmitter have changed. Listeners in the Nelson area need to tune to the new 101.6 MHz frequency in order to receive Radio New Zealand National and the new 91.2 MHz frequency in order to receive Radio New Zealand Concert.

(Radio New Zealand, 24 November 2010, http://www.radionz.co.nz/listen/amfm).

Petone FM

Petone FM, 88.1 MHz, No Adverts - No Inane Chatter, Continuous Beautiful Music, Hits of the 40s and 50s, Classic Humour, Popular Classics (Cyril Ingham)

News from Gordon Mathieson

- 1. After saying in last month's DXT, that 105.2 in the Waikato had been transmitting 89.8 ZM, 105.2 went silent in late November.
- 2. Radio Live (Rodney District) has moved from 93.0 to 92.9.
- 3. 88.2 in Paeroa has IDed as 'Paeroa Community Radio'.

FM skip

I thought this might be the start of a good FM season so actually had a quick tune around this evening and found some interesting signals:

- 104.9 The Edge, Blenheim with local ads and ID 'The Edge 104.9 Marlborough' very nice signal 0645 3/12
- 105.7 Pulzar, Christchurch a rock solid signal with local ads, promos for dance music shows and ID 'Pulzar 105.7' 0545 3/12
- 106.3 Beach FM, Paraparaumu strong with local ads and promo 'From Foxton to Pukerua Bay, Beach FM 106.3' 0550 3/12
- 106.5 Radio Hauraki, Christchurch thundering in for hour after hour from 0515 and lots of local ads and ID's as 'Hauraki 106.5' 3/12

Listening on a Superadioll with ferrite antenna from Island Bay, Wellington. I think with new stations, new channels and warm stable weather, members may like to try their hand at FM DX this summer.

The Superadio has no digital readout, so actual ID's or program and format details have to be heard to get positive ID's :)

(David Ricquish, Wellington)

Low Power FM Summer 2010 Update

It's warm weather and time of year when FM signals skip around further than usual... and also when people have more time to kick back, relax and listen to the radio... including LPFM!

How accurate is our LPFM Radio Guide at www.radioheritage.net?

We count 500+ stations as being on the air, BUT about 15% are on now illegal frequencies, so we'd like your help in getting these quickly sorted out!

There are also some really old and long gone stations still showing as being on the air, so please tell us the 'gone' ones so we can make the changes.

If you see any errors at all, tell us so we can fix them. It's the biggest LPFM list around and it's very popular so please help us make it more accurate for the summer season. (David Ricquish, Radio Heritage Foundation, Wellington)

LPFM in Feilding

On a recent drive to Feilding I only heard one local LPFM station on air and that was on 107.1 which I assume is 3ABN. (A couple of the Palmerston North LPFM stations can be heard in Feilding).

(Adam Claydon)



TV NEWS & DX

Editor Adam Claydon Palmerston North

email tv@radiodx.com



Digital switchover campaign launched

A national campaign to promote the switch to digital television was launched today by Broadcasting Minister Jonathan Coleman.

The Going Digital campaign provides a website, www.goingdigital.co.nz and a free-phone helpline, 0800 838 800, so people can get the information and advice they need about switching to digital TV.

The Government announced in September that New Zealand will make the switch, region by region, to digital television by November 2013, beginning with Hawke's Bay and the West Coast in September 2012.

"Over the coming months, Going Digital will be working with local communities to ensure viewers know where to turn for advice," Dr Coleman says.

"71 per cent of New Zealand households are already watching digital television through either Freeview, Sky or TelstraClear. Going Digital will ensure people know about the change, and that advice and practical support is available for those who need it."

The Going Digital campaign will encourage people to visit the website where they can find detailed information about when they will switch and what digital services and channels they can receive.

Households that have Freeview, Sky or TelstraClear, are already set for digital switchover. Other viewers do not need to buy a new television to make the switch, but may need to buy a set-top box and possibly a new aerial or satellite dish depending on what equipment they currently have and where they live.

"In just under three years New Zealand will have completed the transition to digital television and today's launch is the start of high profile campaign to ensure that transition goes as smoothly as possible," Dr Coleman says.

(New Zealand Government, 30 November 2010, http://www.beehive.govt.nz/release/digital-switchover-campaign-launched)

Trackside on Freeview

New Zealand Racing Board's Trackside Channel will join the FreeviewlHD® line up providing viewers with detailed, extensive coverage of New Zealand, Australian and international races, as well as a range of racing inspired programmes. The launch of Trackside increases the number of channels available to New Zealanders on FreeviewlHD® to at least 13 TV and 3 radio channels.

(Freeview, 1 December 2010, http://freeviewnz.tv/site/news_article/freeview_more_popular_than_ever)

MAILBAG

Editor email mailbag@radiodx.com Mike Butler Auckland



Would members kindly assist by sending their contributions early. Mailbag will close on the $3^{\rm rd}$ day of each month and late entries will appear in the next issue. As always, your comments are appreciated and important in this column.

I suppose from time to time everyone does it. Casting one's mind back in order to see where you came from, in order to see where you're heading. And the last month of the year seems to be a good time to do it. So I'm going to summarize some of my opening words since joining Mailbag and then end with a challenge!

Jan. 09	Arthur Cushen's way to QSL
	elusive stations

- Mar.09 An analysis of QSLs reported in Mailbag
- May09 How access to World Areas varies on SW.
- July 09 How a station's power affects the signal.
- Oct. 09 When did the new Solar Cycle begin?
- Nov 09 The League and DXT a 1963 description.
- Dec 09 The famous SW programmes of the past.

- Feb 10 Martin Hadlow's trip to Tiwai with
- Mar 10 The Good Old Days were so much better!
- Aprl 10 The best times to listen on shortwave.
- May 10 Don't say that we're deprived of stations to tune!
- July 10 What goes on inside our radios. Aug 10 The crystal controlled oscillator.
- Nov 10 Phase-Locked Loop (PLL) tuning.

Now, that should be a good range of subjects to consider but so far only our good regular contributor, **Terry Nielsen** has had his say on any of the issues that I have raised. Most writers are delighted when someone emerges to put another view on a matter discussed and I am certainly no exception. In fact, it makes an excellent start to writing another article! So I'm going to make a New Year wish and it is: **THAT EACH MONTH SOMEONE EMAILS ME DISAGREEING WITH SOMETHING I HAVE WRITTEN. AND IT DOESN"T HAVE TO BE IN LAST MONTH'S ISSUE!**

I'll sincerely thank them for it!

I send every good wish to all of you for a happy Christmas and a great new DX year.

Jonathan Wood, Mosgiel, one of our new members, wrote in response to our welcoming letter, "Thanks for your welcome - and the mention received in the DX times. My interest in DX started in the late 70s with a MW transistor radio with a good aerial. I lived in Winton, and followed Arthur Cushen's column, in the Listener I think. After a 25 year break I now have a FRG7 and enjoy fossicking for utilities, listening in to Canterbury Mountain Radio and Dept of Conservation, and SW Dx. I keep a frequency record so look forward to reporting in to DX times. Thanks again." Nice to hear from you, Jonathan. Arthur De Maine, the Editor of the Utilities section of the DX Times would also be delighted to hear from you with details of the utilities that you have found.

Rich D'Angelo, Wyomissing PA writes: "Our first DX pedition of this DX season is scheduled for 21-23 November 2010 at the usual French Creek State Park site. As usual, I am looking forward to this listening opportunity. Nothing like guiet conditions and nothing to do but listen to get the DX juices flowing." And now for his verifications: Adventist World Radio via Wertachtal 9845 with an electronic response from Walter Brodowsky, TDF Group Short-Wave Project Leader in 25 days noting a 250 KW transmitter in combination with a High gain antenna system towards the Middle East on 120 degrees antenna azimuth was used; Radio Verdad 4055 Guatemala with an electronic response from v/s Dr. Édgar Amílcar Madrid, Manager and Director of Radio Truth verifying my reception of their temporary transmissions on 4055 Kcs using only 50 watts power. They expect to return with a higher powered transmitter by the end of October on their original frequency of 40525 Kcs. He promised a QSL card and the "Radio Truth Pack" by North American Pirate KBOX Radio 6925 usb with a full data regular mail; electronic reply in 1 day from v/s Guy Fawkes. In his e-mail Guy wrote: "We are pleased to acknowledge that you did indeed hear our KBOX /"Radio Paranoia"/programme. We are most grateful for your signal report, and recognize your name from various shortwave radio oriented journals. In particular we appreciate the details regarding signal strength and audio clarity. This information is very helpful, considering the erratic conditions this year. We hope that propaganda... pardon our error... propagation will continue to favour our efforts at disseminating peace and harmony through Boxxification. We shall try again soon. Stay tuned. Be warned. The first KBOX programme was transmitted in October 2009, with two shows in October including a Halloween flavoured programme; a January 2010 salute programme in memory of Art Clokey, the creator of Gumby; an April Fools Day 2010 show; and this September 2010 programme, our fifth. Our programme content celebrates popular culture, with particular emphasis on internet fads and the peculiarities of radio in general. We have a diverse background in radio production dating back several years. Now, virtually all of our production is assembled using computer equipment and software, with the occasional exception of the use of older materials on tapes. We are also fans of free radio and frequent listeners for broadcasts from the Americas and Europe - in fact, our first confirmed reception of a free radio broadcast was of Spider Radio in Greece. Free radio offers a wonderful eccentricity and diversity seldom matched by conventional radio, although there are a few interesting

podcasts, notably Ragnar Daneskjold's Pirates Week podcast, and Radiolab via WNYC." North American Pirate, Radio Mushroom 6925 usb responded to an electronic report with a full data electronic attachment QSL in 6 days. Apparently, it is their ninth different QSL. The e-mail mentioned "This is the only Free Pirate Radio Station that is powered by pure nuclear energy." Your pirates are certainly a quirky lot, Rich. Good entertainment and fine fodder for the DXer!

Stu Forsyth, Hanoi, Vietnam comments, "It has been a quiet time with little or no listening - actually the latter is the case! However, the postman has been kind and I have 4 verifications back from CRI: 15350, 15625, 17490 and 17540. Nothing fancy but they all count." Very true Stu and good to hear from you.

Günter Jacob, Passau, Germany writes, "Since 1956, when I first listened to the 'Voice of the Andes', my collection of HCJB QSLs kept growing and growing. With 127 different HCJB Ecuador frequencies verified, I have amassed a total of 288 different motives of HCJB QSL cards. Collectors - like myself - who want to supplement their collection, can get missing cards for their reception reports sent to Quito. A number of cards, especially older ones, are still included in HCJB's QSL Gallery, but are not available any more. Maybe it is possible to help serious collectors to add one or two missing cards in their collection, because I have a number of duplicates, like the 1966-A card, also cards of the series of 1969, 1970, 1971, 1972, 1974. My offer is effective as long as my stocks last. These QSLs arrived during the last four weeks: HCJB 6050 (Mt. Pichincha, 10 kW.): Hamburger Lokalradio via Wertachtal, 6045; TWR via Wertachtal, 7215; Rhein-Main-Radio-Club for special transmissions via Sitkunai, 9770/11640; Voice of Russia via Lviv (Ukraine), 11655; Sentech Meyerton, 5890/12125; IBB Transmitting Station Philippines 7540/9485 (Station Manager, IBB/PTS, PSC 500 Box 28, DPO AP 96515-1000, Philippines); IBB Thailand Transmittina Station. 9480: Deutsche Welle via Woofferton 7410. Sines 6180. Bonaire 9450, Kigali 9465, Trincomalee 9635." You are very generous Günter, and you have a nice list of QSLs this month.

Ian Cattermole, Blenheim sends us his SW veries received during November: AWR Moosbrunn 15260 9625, Wert.13755 15205 11895, Taiwan15445; Radio Dabanga 13620; BBC Seychelles 11785; RDW Sines 6130, Woofferton 9545, Kigali 9755 9450, Sri Lanka 9510 21780 17710; AIR 7400 9415; TWR Swaziland 6120; Bible Voice 7220 7355; Radio Liberty 7220; RFA Sri Lanka 15120 9325, Tinian 15690. You've been busy again Ian. Thanks.

Ron Killick, Christchurch said that he was having good weather, "Heading for 23 degrees. I can present a solitary QSL for "Yodobashi Church-Kununurra 15525kHz" on their QSL card for July featuring 6 members of DXpedition and 2 other scenes. Not much but at least it shows some activity.

Best wishes to one and all for the forthcoming season." Nice to hear from you Ron and of course we reciprocate your good wishes.

Des Davey, Te Kuiti sends his Season's Greetings to us all - "early as I could be going to Rotorua to my daughter's for a week or so, that's if she can come over and pick me up. I need a break away from home.

Reports out to: CRI 7420 11620 11760 17735 17750; CNR-1 Nanning China 4750; V.O Pyongyang Korea 2850; WWCR 9985; AFRTS feeder B.I.O. 12759; V.O. Russia 12065; AIR Bhopal India 4810 English/Hindi with Comm. Games reports. QSL's to hand: got 3 QSL's in one envelope from WWCR and they are 5935 4840 8590; V.O Indonesia 9525; CRI 15210 13720; R..Nederland 15540." Thanks for your good wishes and I hope you enjoy your stay in Rotorua.

Theo Donnelly, Vancouver, Canada says, "Last time we communicated, I was just heading south to the IRCA's convention in late September. Attendance wasn't as great as at 2006, but we still had a fine time. I managed to accidentally drive by the prime DX site at the Grayland Motel in Grayland, WA after missing a turn for Hwy 101 heading out of Aberdeen, WA. I'd decided to take backroads to get down to the Oregon Coast. After convention at Seaside, a few of us ended up down in Tillamook, OR to tour the

After convention at Seaside, a few of us ended up down in Illiamook, OR to four the cheese factory (yeah, me as a former Hamiltonian/Waikato-ite touring a Yankee cheese factory -- giggle).

We also hit the very interesting Tillamook Air Museum: http://www.tillamookair.com/ After that, on a very miserable Sunday, I headed back east to Portland. I spent a day in PDX, then meandered up the Washington state side of the Columbia River gorge. That was a Big Bite, as it took 11 hours to drive up through Yakima, Ellensburg, and Chelan to get back over onto the west side of the Washington Cascades, and re-join the I-5 Freeway to come home.

DX stuff has been miserable, apart from a re-appearance of Cuba's R. Progresso/890 suddenly a week or so back one evening around 0515Z. That's a repeat of a similar log a year ago using an
 ultralight> receiver."
 Theo, as most of us know, kindly transcribes contributions for the magazine. It was great to get that report of your holiday.

Jerry Berg, Lexington, MA sends us details of two recent QSLs: "Radio Waves International (via Sitkunai) Lithuania 6055 for 27th Anniversary broadcast on November 6 they sent a large, colorful, yellow-background QSL sheet, full-data (with site), numbered ("10-147"), also a letter, RWnews info sheet, playlist, promo card and two CDs. V/S Peter Hills& Philippe. In 3 wks. by postal mail for postal rpt. Rhein Main Radio Club, Lithuania 6130 very nice QSL-card for October 9 R. St. Helena-related special broadcast; on front, color photo of Robert Kipp at desk with RMRC logo and inset of RSH QSL-card; full-data on back. In one month by postal mail for a postal report." It was nice that they remembered R St Helena even if the station was unable to come on air this year. Thank you Jerry.

<u>David Miller, Dunedin</u> reports, "As I still do my Country Radio Show "Country Overdrive" on Puketapu Radio that is keeping me busy.

But I've also received a QSL in from Radio Station WWV, 5 MHz from a June 2010 report I sent. Also received with the QSL was NIST Special Publication 432, 2002 Edition "NIST Time and Frequency Services" by Michael A.Lombardi.

Over next month, I'm making an alteration to my antenna and putting up a EWE." Very good to get your report David and I'm sure your reception will improve when you get up your EWE.

Roger Pryde, Dunedin wrote, "I've received a QSL from Radio Romania Int. Bucharest on 9645 with full data post card style, The Fortress of Saschiz. Also one from Radio Nederland Worldwide Tinang 15110 with a special series QSL: Dutch Morning street scene Amsterdam with many bikes .

Thank you for your section Mike, looking forward to contribute more in the new year. My thoughts go to DXers in Ch Ch EQ and West Coast Miner's families. I hope life will return to normal for them one day . Merry Xmas to section Editors and Dxers NZ wide." Roger, thanks for your good wishes and I will be very pleased to receive your further contributions in the New Year.

Bryan Clark, Mangawhai (Northland) reports an excellent DX month with exotic shortwave catches including Radio Africa 15190 and Radio Apinte 4990; tentatives on Reflections Europe from Ireland on 12255 and Radio Verdad Guatemala 4052; exceptionally strong signals in our local evenings from Chad 6165 and Mauritania 7245; and reactivations for Radio Vanuau on 41 metres and Radio Quito on 4919. Since 22 November, 15190 has been monitored regularly for Radio Inconfidencia Brazil. After a few days of poor modulation, their signal is now dramatically improved and some days Inconfidencia is audible from as early as 1930 UTC throughout the day and as late as 0700 UTC. Even the higher frequencies are improving - a Chinese transmission has been heard at 0940 UTC on 25580 - not sure whether this is a harmonic or a spurious transmission - anyone else hearing this? Medium wave has also been good for North American signals, mainly the West Coast states plus Hawaii and Alaska, but Radio Reloj Cuba was noted for a few days on 861kHz before returning to usual 860. Brian Dodgson from Victoria visited for several days and was impressed by the DX variety available.



BROADCAST NEWS

Editor Bryan Clark Manaawhai

email

broadcast.news@radiodx.com



NEW ZEALAND Tony King reports, and Ian Cattermole validates, that 2ZE Blenheim has vacated **1539**, so that makes 1540 another 'clear channel' for kiwi DXers! Tony notes KMPC Los Angeles 1540 in the clear with Asian commentary around 0900 UTC. [Slogan is 'Radio Korea and I hear it plus KREA Honolulu in the background, also with Korean language format most nights. BC]

NORTH AMERICAN NEWS

courtesy of NRC DX News, November 2010

- 550 KTZN Anchorage AK granted for U1 3.1kw days, 5kw nights as they relocate to the (taller) tower of co-owned KENI.
- 720 WGN Chicago IL noted with new slogan "News 720 WGN". (W.Heinen CO)
- 890 WLS Chicago IL verified by email from Anabel Roda. wls.management@citcomm.com (Mauricio Molano -Spain)
- 890 KLFF Arroyo Grande CA construction permit granted for U4 5kw day & night. The new night pattern remains unchanged (large circle to the southwest) except for three very small lobes off the back directed to the northeast, east northeast, and east southeast, better serving the city-of-license.
- 1600 KATZ St. Louis MO Is now on the air with U4 6000/3500.
- 1630 KRND Fox Farm WY new slogan is La Jota. Jota is the Spanish word for the letter J. Not sure what this slogan refers to since there is no J in the call sign, but call letters are still KRND, per ToH legal ID. (J Wilkins CO)
- 1630 KCJJ Iowa City IA sent email and n/d snail mail QSL-card in 5d. V/s: Tom Suter (General Manager). suterman7@aol.com. (Mauricio Molano -Spain)
- 1650 KYHN Fort Smith, AR has been silent since 4/08
- WPTX Lexington Park MD verified by coverage map & full data email, v/s: Sharon Robertson, Sales Manager. sharon@somdradio.com. (Mauricio Molano -Spain)
- 1690 WVON Chicago IL verified at 6th e-try (and two s-mail reports) in 2 days. V/s: Todd Ronczkowski, Program Director. todd@wvon.com. (Mauricio Molano -Spain)
- 1700 KVNS Brownsville TX after many s-mail reports and some e-f/up unanswered finally I have received a short confirming email in 21min. V/s: Tim Thomas, VP/Market Manager. timthomas@clearchannel.com. (Mauricio Molano -Spain)

BROADCAST NEWS FROM AROUND THE WORLD

COLOMBIA 1230 HJLK Radio Calidad, Cali – after 5 follow up emails, received email verie from Nelson Moreno Holquín. nmoreno@rcnradio.com.

1280 HJKN Radio Unica, Bogotá. Sent e-report, received email in 7d. V/s: Yaned Caro, Asistente Administrativa. ycaro@todelar.com. (Mauricio Molano –Spain via NRC)

PERU 1340 OAU4Q Radio Alegria, Lima. Sent e-report, received email in 74d. V/s: Doris Díaz Chavéz, Directora/Propietaria. Thanks to Henrik Klemetz for his help to QSL this one! (Mauricio Molano –Spain via NRC)

SOUTH KOREA 1566, confirming schedule for HLAZ in the afternoon when it might be heard in winter in UK under favourable conditions: 1100-1230 FEBC Chinese, 1230-1345 FEBC Japanese, 1345-1830 FEBC Chinese (including 1730-1830 New Dynamic English in Chinese), 1830-1900 Radio Teos, Russian (Sei-ichi Hasegawa, Japan, Nov 2010 BDXC-UK via Glen Hauser's DXLD)

SWITZERLAND I have received word that the last Swiss MW station, Sottens 765 kHz with 600 kW, is to go silent on Dec 05, 2010. This leaves Switzerland with no MW or SW facility. (Bob Zanotti Switzerland, Oct 25, via Tibor Szilagyi, Sweden, DSWCI DX Window Nov 3 via DXLD)

USA KYNO Fresno CA 940 sent verification letter in 21 days for CD report w/SASE. V/S: Dave Hull, Operations Manager. Address: 1415 Fulton Street, Fresno CA 93721. (Patrick Martin via MW-OZ Yahoo Newsgroup)

Fox Sports Radio X-Band Channels are 1650 KCNZ, 1660 WQLR, 1670 KNRO and WPLA. See complete list at http://fsr pr.clearchannel.com/pages/affiliates.html (via NRC)

BROADCAST TRAIL

- 690 HAWAII KHNR Honolulu with promo for 'Hawaii's News Hour' 0722 and "Tune in to AM 6-90, KHNR", good 25/11. BCM
- 720 HAWAII KUAI Ele'Ele with world music vocals 0718 over several others 25/11. Ident as "7-20 KUAI". BCM
- 750 ALASKA KFQD Anchorage good with adverts 0858 26/11 including the Alaska National Guard and "The Clark Howard Show, weekdays between 7 and 9 pm on Newstalk 7-50 KFQD". Station jingle on the hour. BCM
- 780 USA KKOH Reno NV good with ident 0800 14/11 as "Newstalk 7-80 KOH Reno and kkoh.com. KOH Newstime, midnight", then ABC news. Coast to Coast AM talkshow from 0806. BCM
- 780 ALASKA KNOM Nome concluding ABC news 0802 14/11, then detailed Alaskan weather forecast, over KKOH for a few minutes. BCM
- 850 USA KOA Denver CO. 0854 "News Radio 850 KOA" TIW
- 861 CUBA Radio Reloj putting bad het on 860 US & Mexican stations 0755 14/11. Time

- pips and "RR" code every minute. Reverted to 860 a few days later. BCM
- 890 USA/CUBA Unidentified religious station at 0843 14/11, possibly KLFF with revised antenna pattern but soon covered by usually dominant Radio Progresso in SS.BCM
- 950 USA KJR Seattle WA with advts & promos 0813 16/11 "This network broadcast is coming to you live and under the influence of Sports Radio 9-50, KJR Seattle". BCM
- 960 CANADA CFAC Calgary AB with local advts 0854 2/12 and promo for "Calgary's Only All-Sports Radio", over UNID SS station with vocals. BCM
- 970 USA KBUL Billings MT ident surfacing 0906 2/12 in mix with sports formatted station. ABC News on the hour. BCM
- 1000 USA KOMO Seattle WA with rapid-fire news format, time check 0811 16/11 as "Its 12.11 on Komo NewsRadio", good. BCM
- 1098 MARSHALL ISLANDS V7AB with island & reggae music 0910 22/11. Long talk in island language from 1000. BCM
- 1160 USA KSL Salt Lake City UT all alone here with ident and weather forecast 0642 1/12. BCM
- 1190 USA KEX Portland OR 0803 "News Radio 1190 KEX" overnight temp. TIW
- 1240 COLOMBIA? Unid Latin here 0744 15/11 thru kiwi slop. Reference to 'Antena' on the hour and numerous mentions of Bogota. BCM
- 1370 HAWAII KUPA Pearl City with sports talk 0750 13/11. On the hour "Fox Sports Radio" promo and "KUPAS Pearl City, 13-70 AM", good and clear. BCM
- 1450 UNID LATIN regular at present, possibly Mexican with ident including "la Musica Romatica, la Radio 14-50" hrd at 0721 2/12 and 0713 15/11. BCM
- 1460 USA KION Salina CA presumed one with syndicated religious talk. Call sign twice at 0800 then disappeared like a change of pattern or tx off but returned 0812. TIW
- 1500 HAWAII KHKA Honolulu (ex KUMU) dominant 0952 with promos for "ESPN Radio Sports Center AM" 22/11. BCM
- 1510 USA KGA Spokane WA over/mixed another at 0800 16/11 "Sports Radio 15-10, KGA Spokane". BCM
- 1520 USA KOKC Oklahoma OK. 0807 sounded like a local prog talk about a shopping centre. TIW Very good level 0633 15/11 with ident "Newstalk 15-20 KOKC' and National Weather Forecast. BCM
- 1620 USA WTAW College Station TX. Fox News 0800, ID 0805 with temp and weather. TIW
- 1630 USA USA KKGM Fort Worth TX ID 0800 announced GAB Radio Network. TIW
- 1660 USA KTIQ Merced CA. weak. TIW
- 1660 USA WCNZ Marco Is FL. suspected one with Oldies. TIW
- 1700 USA KVNS Brownsville TX Id 0640 "Classic Hits KVNS" TIW
- 1700 USA KBGG Des Moines IA. sports 0730 mixed KVNS. [watch out for XEPE, which is also ESPN format nowadays. BC] TIW
- TIW Steven Greenyer and Paul Aronsen at Tiwai Southland (14-17 November 2010)

 BCM Bryan Clark at Mangawhai Northland

Steven writes: "This is the first time in 10 years that I have been at Tiwai at this time of the year and the first night (Sunday 14th) was a very good North American night, best signals I have heard in this time. All the X band frequencies had stations at good strength and most of the other MW frequencies had signals at good levels. Subsequent nights tapered off a little but there were still some good signals. Once again I took my portable EWE antenna and in line with some tests I did at home I now place the amplifier at the ewe rather that at the receiver end. For anyone using a low gain amplifier I am convinced this is the better option. The performance of the ewe was comparable on some frequencies with the beverage. This was also the first opportunity to try my new Palstar receiver, the Collins filters give it a definite edge over the older Palstar with Murata filters although it does have spurious signals on a couple of frequencies in the MW band. The trail doesn't do justice to the signals, but with so many syndicated programs it is harder to positively id stations and I am so out of touch with the band, plus I haven't had time to listen to the tapes."

Bryan writes: The Americans are being heard very well at present with the Pacific Coast favoured and Alaskans popping through after 0800 UTC.

Part 2 of our Basic Introduction on getting into Broadcast DX from the Americas.

That segues quite nicely into part 2 of our basic introduction on getting into broadcast DX from the Americas. Perhaps I should have started first with the receiver and antenna, as without a doubt, these are much more critical to your success rate than if you are tuning shortwave or FM bands. Some communications receivers simply don't perform on the broadcast band (they may have had the band deliberately attenuated to prevent overloading), so it pays to seek advice if you are looking for a radio for medium wave DX. Selectivity (the ability to separate radio signals on adjacent frequencies) is the key requirement. My AOR7030+ can sometimes separate a station on 1250 from Rhema 1251 in Auckland, less than a hundred km away – that's the ultimate in selectivity for me. In a posting to the DX League's dxdialog Yahoo News Group in October, Paul Ormandy mentioned the following receivers (in no particular order) as being suitable for chasing distant signals on medium wave frequencies:

Kenwood R1000 & R5000, Icom IC-R70, IC-R71E & IC-R75, Drake SPR4 & R8, AOR AR-7030 & AR-7030+, Japan Radio NRD-535 & NRD-545, Palstar R-30, Sony ICF-6800W ("Orange" model).

To these I could add older valve communications receivers like to Eddystone 680X. If readers have any other radios that they know are reliable on MW, please let me know so I can pass them on.

Next time we will discuss antennas. Meantime, if you'd like to read an in-depth article on medium waver DXing I can recommend Paul Ormandy's article "Medium Wave DX Introduction" which is on the Internet at

http://radiodx.com/nzrdxl/index.php?option=com_content&task=view&id=153&Itemid=45

ADCOM NEWS

Editor Bryan Clark email

Mangawhai adcom.news@radiodx.com



WELCOME TO NEW & REJOINING MEMBERS VOL PLEUGER from Whangarei and **ROBERT LEWIS** from Christchurch, who join us thanks to the Trademe initiative. A belated welcome also to **HORACIO NIGRO** well-known DXer from Uruguay and **BILL COX ZL2BIL** in Raumati Beach. (I missed welcoming Horacio and Bill earlier because of my extended overseas holiday. BC) Bill says he has slowed down his ham activity and spending more time as an SWL. Vol is also an amateur operator, so its good to see our ham friends getting some one-way entertainment from their radios.

A SPECIAL THANK YOU to **CYRIL INGHAM** from Lower Hutt for his recent donation to the DX League.

SUBSCRIPTIONS NOW DUE A gentle reminder that member subscriptions expire on 31 December. Please renew without delay to ensure you don't miss your monthly magazine, thanks. The relevant details appeared in last month's magazine.

<u>A STERLING EFFORT</u> – that's surely an understatement when describing the amazing and

dedicated 22.5 years that **PAUL SWEARINGEN** recently completed as Chief Editor for the National Radio Club's all-MW DX magazine 'DX News'. More so when you consider the NRC magazine is published weekly during the peak DX season, meaning Paul saw 663 issues off to the publisher. A commendatory message was sent to Paul from the DX League.



CONGRATULATIONS to Hamilton member and former National President of the League **SUTTON BURTENSHAW**, who our spies

tell us has been honoured by the ARRL (American Radio Relay League). ARRL have recognised ZL4QJ's achievement in verifying 329 out of a possible 340 radio countries. But we understand the ultimate goal may have just become a little more difficult with the creation of 4 new countries - Bonaire, Aruba, Sint Maarten and Saba/Eustatius, replacing the previous Netherlands Antillies & the old Aruba disappeared. Well done OM!

THE GLORY DAYS OF SHORTWAVE RADIO is the title of a colour feature article by Life Member **PETER GRENFELL** which appeared in the February/March 2010 edition (Issue 82) of the "**New Zealand Memories**" magazine. Some colourful old QSL cards are depicted and Peter mentions that the hobby of DXing is still alive and well. (Thanks to **BRYAN MARSH** who forwarded a copy of the article)

MORE DEPARTURES FROM SHORTWAVE Radio Slovakia International and Radio Prague are reported to be leaving shortwave on 1 January 2011. Commenting on the closure of

RSI, a spokeswoman said ""Cutting the shortwave was a compromise solution. It is very expensive.. Governments all round the world are cutting costs, especially governments who are in the euro zone. You know what happens in Ireland now, what happens in Greece. So the choice we had was no RSI at all or RSI without shortwave, and now maybe, dear listeners, it's the right time for you to show support and encouragement ... The offer is there, it's on the internet, and if you send in emails it means you have access to the internet."

It was reported that shortwave constitutes sixty per cent of RSI's costs.

We also note that the Voice of Russia has cut back some of its English language schedule, including English to Australia at 0800-1100 UTC on 17650. (thanks to various reports in Glen Hauser's DX Listening Digest Yahoo Group)

RHEIN-MAIN-RADIO-CLUB During October the RMRC organised several shortwave broadcasts, which featured many audio clips in studio quality from the original Radio St. Helena Day 2009 broadcast and comments on the clips by that broadcast organiser ROBERT KIPP. Many reception reports were received, from listeners from Europe to Venezuela, from India to Russia, from New Zealand to Japan, from Spain to Ukraine, from Italy to USA, and from Canada to Sweden. RMRC raffled off 12 copies of their 2011 QSL-Calendar among all the persons who sent us reception reports, and amongst the winners was our very own **JOHN DURHAM.**

RMRC plans further special broadcasts on shortwave to coincide with its DX-Camps in the northern Spring and Autumn. The next DX-Camp will be in May, 2011, and DXers can find details in due course at the RMRC Internet website – www.rmrc.de

A special CD recording has been produced by RMRC in support of the Radio St. Helena Day Revival Project, containing the full one-hour Radio St Helena Day 2009 shortwave broadcast in best audio quality. Additionally, Robert Kipp tells the fascinating story of this remarkable and complex project and has included several pictures representing various phases of the project. The price of this CD is 15 Euros.

The QSL-calendar 2011 is the 6th edition to be published by RMRC and ADDX Archive as a non- profit activity to support shortwave listening. This full colour art print calendar offers real treasures from the ADDX Archive, which contains QSL cards from the 1930's to the present. The QSL-calendar is in English and also costs 15 Euros (plus 6 Euros postage outside Europe). If you would like to own a copy of the special CD or one of the 2011 QSL-calendars, you can order directly from the above Internet homepage.

NEW OFFSHORE RADIO BOOK The website of the Wall Street Journal has published a review of a new book by Adrian Johns called "Death of a Pirate", focusing on Major Oliver Smedley who launched the British offshore station Radio Atlanta in 1964, and was subsequently acquitted of the murder of fellow offshore station owner Reg Calvert. Radio Atlanta arguably was home to Britain's most famous (or is that most infamous) DJ Screaming Lord Sutch. The book was published on 26 October. (WIA 14/10 via Ray Crawford)

CHRISTMAS & NEW YEAR GREETINGS to all members from the Administration Committee – we hope you'll get a chance to do some DX listening over the holiday period and report to the 'DX Times' on the outcome!

BRANCH NEWS

Upper Hutt

Chief Editor Mark Nicholls

editor@radiodx.com



AUCKLAND BRANCH

The Auckland Branch November meeting on Sunday 28 November fizzled out as only two members turned up and the meeting finished early.

As previously stated, there will be no meetings in December and January and the Branch will reconvene on Sunday 27 February at 2pm. Contact Barry 815-4126 (09 if outside of Auckland.)

WELLINGTON AREA BRANCH

The final coffee break for 2010 was enjoyed outdoors in the sun on December 1, with a good group and quite a number of apologies.

Dene reported on his latest catches and David reviewed meetings with DXers in Germany. France, Italy and Austria in the past few weeks...it's reassuring to know our craziness is universal! Chris came over from Nelson as well, so it was a nice finish for the year.

All best wishes to Wellington area members over the Xmas/New Year period, check the FM dials for skip and I'm reliably informed that Yank DX can occur the next few months as well!

January 2011 coffee break is set for Wednesday, January 26, 12.45pm, Beach Babylon Cafe, Oriental Bay. Enjoy the summer sights from the outside tables...Bikini FM in stereo is likely! Free 2 hour parking, great food, coffee and always time for tall tales and DX chatter.

Visitors from out of town always welcome!

Email David Ricauish at info@radioheritage.net to be added to local newsletter list.

OAMARU (NORTH OTAGO) BRANCH

On Saturday the 4th of December the branch held a Christmas BBQ at Paul Ormandy's place in Oamaru. Five members and their wife's attended.

We were graced with the presence of our Patron Frank Glen and his wife Margaret. It was a pleasure to catch up with them both and learn of their experiences of recent times in Christchurch.

Paul was Head Chef assisted by the Patron. I am sure that everyone enjoyed the BBQ and the tales that were told.

Peter Grenfell advised that the Archive's account had been closed and the money transferred to Adcom to assist any branch in setting up their archives and depositing them in a suitable place within their area.

Near the end of the evening Arthur Finch our long serving Treasurer was thanked for his work in looking after the Branch Accounts and the Archives account. At the end of the evening Paul and Linda were thanked for their hospitality.

DUNEDIN (OTAGO) BRANCH

We had our last get together for the year on 27th November 2010 at David Millers place at 2.30pm . We did a feedback session on our Dx at Waianakarua and also welcomed Jonathan Wood to the club . Meeting closed at 4.10pm

Next meeting will be in New Year and date to be confirmed.

Contacts: David Miller 476 3224 or Roger Pryde 473 7805

TIWAI DXPEDITION 2011

It is proposed to hold a Tiwai week during the last week of March or first week in April 2011. A invitation is extended to any member whether you would like to spend the week or part of the week at Tiwai.

If you would like to know more or wish to attend please contact Arthur De Maine, Ph (03) 439-5882 or e-mail A.B.D@xtra.co.nz

SUBSCRIPTION REMINDER

Don't forget that if you haven't renewed you subscription that this may be your last copy of the DX Times. To ensure continued receipt of the magazine see page 45 of this magazine for a Subscription Form.

If you would rather not cut up your magazine you can request a form from editor@radiodx.com

Also don't forget as an 'Early Renewal Bonus' for New Zealand based members all payments received ty 31 December 2010 go into a draw to receive a radio book supplied by Burnet Pollard Books.

Subscription Extras

Did you know that as part of being a member of the NZ Radio DX League you can get a @radiodx.com email address? (which is forwarded to your normal email address)

Did you know that if you pay for a Printed Version of the DX Times that you can also request at no extra cost an electronic version of the DX Times? (which you can receive up to a week earlier than the printed version due to printing or postal delays)

Did you know that if you pay for either a Printed Version or Electronic version of the NZ DX Times you can receive an electronic copy of the Australian DX News (published 11 times a year) by the Australian DX Club as part of our magazine exchange?

To request any of the 'extras' mentioned above or for more information contact editor@radiodx.com



WRTH 2011 \$40*

Send your donation of \$60 to the Radio Heritage Foundation today.

We'll have the WRTH 2011 sent directly to your post box in early 2011 as a thank you for supporting our QSL protection and other projects.

We'll also include an introductory annual supporter membership for 2011.



We'll send your receipt by return post. Additional donations welcome.

*WRTH 2011 is also US\$33.08 via our online bookstore at www.radioheritage.net. The one-third tax refund is only available for donations made directly to us by NZ residents. Radio Heritage Foundation is a registered charitable entity in New Zealand. Visit us today at www.radioheritage.net.



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2011



From NZRDXL member Jerry Berg, 38 Eastern Avenue, Lexington, MA 02421, USA NEW HISTORY MATERIAL AT http://www.ontheshortwaves.com

There wasn't much going on in the shortwave world of 1926. A few American stations (KDKA, WGY) were dabbling in shortwave, as was PCJJ in Holland. But with no consumer-grade shortwave receivers, even an avid broadcast band DXer wouldn't know much about the short waves. Things were much farther along on the standard broadcast band, where, if you were looking for a high quality receiver, you might have considered an Atwater Kent. Under "DX History/Equipment & Advertising," we have posted an AK promotional catalog called Atwater Kent Radio. It describes the year's offerings, and discusses radio reception generally and the Atwater Kent company in particular. -- And under "Specialized Resources," "Wavescan," two new stories from Adrian Peterson (October 31, 2010): "RCA Program Relays from the United States to the Philippines" and "Radio Panorama 4: The Discovery of Magnetism."

We have already posted a number of histories of the NNRC. This time, under "DX History/Clubs & Publications," we have posted what I would call an "historical musing" by NNRC member Arthur E. Forester. It appeared in the December 1935 issue of RADEX. It contains some interesting memories of the club's early days (the club was eight years old in 1935), with a focus on the Courtesy Programs Committee, which was a major NNRC activity. Up until December 1935 the club had been devoted entirely to broadcast band DXing. It was that same month and year that the first shortwave column appeared in the NNRC bulletin. -- And under "Specialized Resources," "Wavescan," two stories from Adrian Peterson (November 7, 2010): "The Story of the Canadian Chronohertz Station CHU" and "The Adelaide River Story."

We have several U.S.-related items this time. Under "DX History/Stations," you will find a pamphlet, "The Voice of America At 25," issued by the VOA in 1967 on its 25th anniversary. It is unusual to find QSLs from U.S. standard broadcast stations that also mention shortwave, but under "CPRV/The CPRV Gallery," you will find several. (1) A 1937 QSL from NBC for GE station WGY, Schenectady, New York which also displays the call letters of the GE Schenectady shortwave stations, W2XAD and W2XAF; (2) a 1937 QSL letter from Crosley station WLW, Cincinnati, Ohio, that also lists the Crosley shortwave station, W8XAL; (3) another QSL letter from WLW (1961) that lists WLWO; and (4) a 1962 QSL for WGTC, Greenville, North Carolina that shows "Voice of America" as one of Greenville's claims to fame (the first broadcasts from Greenville were in 1962). -- And two new stories from Adrian M. Peterson (November 14, 2010): "American Radio Stations in Dutch New Guinea - On the Air in Hollandia" and "Radio Panorama RP5: The Discovery of Electricity."

I have a "new" receiver--a Hallicrafters SX-28A, vintage 1944. Under "DX History/ Equipment & Advertising," you will find a writeup, with photos, about my experiences in fixing up and operating this classic old receiver. I've called it "Flight of the Skyrider, 2010." (Jerry Berg) -- And under "Specialized Resources," we have two new "Wavescan" articles from Adrian Peterson, both dated November 21, 2010: "The World's Largest Wireless Station - RCA Long Island - The Long Island Relay Station for the Voice of America," and "Wireless to the Rescue - The Great Kanto Earthquake in Japan." (See article from Adventist World Radio below- Chief Ed)

Wireless to the Rescue - The Great Kanto Earthquake in Japan

AWR "Wavescan" - DX Program (Adventist World Radio)

it was in the morning of Saturday September 1, 1923, just on 87 years ago, that a most devastating earthquake struck the Japanese main island in the Yokohama area. The main shock measured at an almost all time high of 8.2 on the Richter Scale, and it was followed by at least 600 after shocks. It is estimated that a 1/3rd million people died in the earthquake and the subsequent tsunamis and the resultant fires.

On land, a forest on the slopes of Mt. Tanzawa slid down into the valley at 60 mph. The land area at Misaki rose by 24 ft, and there was a new underwater ridge 300 ft high. The island of Oshima suffered a tsunami 40 ft high.

As a result of ruptured oil tanks and piping at Yokohama, burning oil ran into Yokohama harbour and there was a mad scramble for boats to get out to sea. There were 88 different fires in Yokohama alone, and in the Honjo ward, 40,000 people were suffocated when the fire burned up all of the oxygen in the air. An additional 30,000 refugees took shelter in the city park, and they all died in the ensuing tsunami.

The luxurious passenger liner Taiyo Maru was originally built in Germany and it was donated to Japan after World War 1. This floating palace, with 600 passengers aboard, was four days out from Tokyo, 300 miles distant. As result of the turbulent underwater tsunami, a propeller was torn off.

The cities of Tokyo & Yokohama were largely devastated by the 1923 Kanto Earthquake, as it is known today, and it was difficult to get word out about the massive terrible tragedy. On the day after the earthquake, airplanes were commandeered to fly messages out to nearby cities. In addition, 500 carrier pigeons with tiny messages attached were dispatched to different localities.

The first wireless message from Yokohama Harbour was sent out from the ship "Korea" and it was addressed to the governor of Tokyo. Due to local damage, no reply was received. The "Korea" then sent out a second message addressed to the wireless station at Osaka, and Osaka then made a high powered general broadcast. This message was heard by the American fleet in China waters and they immediately steamed for the stricken areas of Japan.

Soon after the original impact of the Kanto Earthquake, the wireless operator on board the Taiyo Maru sent out an SOS message by spark wireless, stating that a propeller had been torn off. This message was received by navy wireless at Cordova in Alaska, and then relayed to navy wireless at Bremerton in Washington State, who relayed the message on to the ship's agents in San Francisco.

In view of the fact that all land communications were devastated in the earth-quake areas, the Japanese government took over the wireless facilities on board the major ships in nearby waters, including the Taiyo Maru. In fact, at this stage, their agents in the United States were concerned that the ship had suffered a major calamity, due to the fact that no follow up messages were received subsequent to the original SOS message. However, the fact was that the ship's wireless was involved in the relay of official messages on behalf of the Japanese government.

Four days after the major earthquake, the ship Taiyo Maru arrived at Yokohama only to discover that the city was totally destroyed. This ship took on board a total of 3,000 refugees. Several American navy vessels had already arrived in Yokohama to provide relief for the stricken survivors. They had been on duty in nearby ports along coastal China and they were the first to provide relief to the area in Japan.

The Great Kanto Earthquake was of such a horrendous nature that for many years, local events were dated by the number of years after this disastrous event. It is interesting though, that the major communication facilities at the time were aboard large ships in nearby waters and they succeeded in passing out important information. This was the case also, as we observed in previous editions of Wavescan, for the 1906 earthquake in San Francisco, and the 1931 earthquake in Napier, New Zealand.



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LADDERS

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MEDIUMWAVE	A/NZ	Pac	NAm	CAm	SAm	Eur	Af	Asia	Cnt	Jun	Dec	Inc
OPEN (Over 500) Ray Crawford	881	127	414	86	111	132	46	569	189	2366	2366	0
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Sutton Burtenshaw	436	64	335	43	39	47	3	121	107	1088	1088	0
Craig Edwards	501	00	105	00	,	•	•		101	892	071	_
David Ricquish	501	93	195 96	22 13	6 21	8 87	0 1	46 20	67 58	869 736	871 736	2
Stuart Forsyth Bryan Clark	473	26	90	13	21	0/	1	20	30 120	680	680	0
Mark Nicholls	291	57	229	27	9	10	0	22	67	645	645	Ô
John Campbell	-/-	0,			•		•		129	642	0.10	Ŭ
Paul Aronsen									50	531	531	0
SENIOR (301 - 500)									47	457	457	_
Peter Grenfell Gordon Mathieson	361	31	35	2	0	0	0	2	41 18	457 431	457	0
Günter Jacob	0	0	33 7	0	0	342	9	2 11	10 58	368	369	1
Frank Glen	U	U	,	U	U	J72	,	"	24	321	321	Ó
JUNIOR (5 - 150)												
Arthur De Maine									12	60	60	0
FM-TELEVSION										770		
Douglas Johns									_	773	140	0
Bryan Clark Craig Edwards									5 1	149 120	149	0
Gordon Mathieson	94	1							3	95		
Mark Nicholls	44								2	44	44	0
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The remaining pages are, as usual, full of information on:

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- Clandestine and other target broadcasters
- MW and SW frequency listings
- Terrestrial TV by country
- Extensive Reference section

Michael Pollard Burnet Pollard Books

