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NEW ZEALAND DX TIMES

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PACIFIC FORUM

DECEMBER 1981

Merry Christmas .. Noel .. Meilleurs Vœux
Felices Fiestas .. Seasons Greetings
Boas Festas .. Paz Alegria en la Navidad
Meri Kirihimete .. Boas Festas
Bonne et Heureuse Annee .. Greetings
Felices Fiestas .. Christmas Omedetoo ..
Kia monouina e Kurisimasi
Manuia le Kirisimasi Seasons Wishes ..
'ofa Komou ma'u ha Kilisimasi Fisia ..
Prelige Kerstdagen en Selukhig Nieuwjaar ..
Kia manuia i teia Kiritimiti .. Noel

Welcome once again to Christmas in the South Pacific, the time of year for friends and families to spend time with each other and enjoy the summertime by the beach or out in the country or wherever. It has been quite a year for the DX Times and for the DX hobby and 1982 promises to be just as exciting and fulfilled.

Merry Christmas and a Happy New Year is the message and the people of the Pacific have many ways of sending these wonderful greetings. In the languages of the islands and the many cultures making up the Pacific the DX Times wishes you and yours all the very best for Christmas and for a New Year full of blessings.

We hope you enjoy the bumper holiday reading in this issue because for the first time ever, the magazine reaches a special length of 24 pages and all crammed with DX news and articles to really get your DXing away to a great start in 1982. Thanks to you all for this amazing response. In fact there has been so much information that we could have gone to 32 pages easily but we decided to save some goodies over for January. So if you have DX news and items that you want others to know about, send your contributions to us. If you have a program or station or personality favorite, just send us your article or your notes and we will put the article together for you. The DX Times is receiving terrific support from members all over the world, and is certainly THE NUMBER ONE DX MAGAZINE IN THE PACIFIC. This year has been a great one and 1982 will be even greater.

SPECIAL CLOSING DATE FOR THE JANUARY ISSUE : To enable your hardworking team to have a break and because both the Chief Editor and the Publisher will be out of Wellington until mid-January, the closing date has been extended by 2 weeks.

CLOSING DATE IS 18 JANUARY 1982 at Midday at PO BOX 2956 WELLINGTON for all your news and notes, loggings and listings and pieces of Christmas Cake please.
CLOSING DATE IS 18 JANUARY 1982 at Midday at PO BOX 2956 WELLINGTON.



With the General Election scheduled for 28 November, the DX Times Editor began a media campaign for making the public more aware of the need for an improved international shortwave service from Radio New Zealand. Press releases were carried in the New Zealand Times and over most newspapers on the NZPA wire services as well as over Morning Report on the National Program of Radio New Zealand. Stressing the need for urgent upgrading, a call was also made to all major political parties to realise the importance of the shortwave service.

The Prime Minister has replied with an interim letter noting that once he has more information he will comment fully, and from discussions with the Ministry of Foreign Affairs it is believed that considerable efforts are being made to fully brief the Prime Minister on the priorities involved. The Leader of the Opposition indicated that he considered the editorial in the October magazine favourably, although no mention was made in Labour Party policy about shortwave broadcasts. The Leader of the Social Credit Party referred the matter to his broadcasting adviser and it is noted that the party policy was clearly spelt out in its manifesto: "Overseas broadcasting will be reintroduced and extended to all those countries where New Zealand has cultural and extensive trading links".

The Chairman of the Broadcasting Corporation of New Zealand comments as follows: "Bearing in mind that the Corporation has to finance all its capital development out of what it can earn commercially and what it receives from licence fees (the level of which have remained unchanged since 1975); that we are under constant public pressure to extend radio and television coverage within New Zealand; and that the proper upgrading of the shortwave transmitters is likely to run into an expenditure of some millions of dollars, it is inescapable I think that the needs of overseas listeners, such as they are, must take a lower priority than domestic coverage. Nevertheless, discussions have been taking place with the Ministry of Foreign Affairs about an upgrading of the service, and the cost involved is being evaluated, along with the testing of alternative sites for new transmission equipment."

Because it was clear that the Government had refused to upgrade the shortwave service in favor of the private and less capital intensive introduction of FM radio for political purposes close to the General Election, a further press release was issued pointing this out and this was carried extensively in news media throughout the country. It is quite clear that the Broadcasting Corporation is not pressing for the upgrading to the extent it could because it does not fully appreciate itself the needs of international listeners. And of course it does not have the resources to provide the facilities which are needed and which more properly should be provided by the Government. Revenue from selling commercials for bubblegum should not determine whether or not New Zealand has an international service but that is the current situation.

As part of this campaign for our international service, you may like to write to Dr Ian Shearer, Minister of Broadcasting, Parliament Buildings, Wellington and ask him to give immediate attention to the shortwave service. Why not let him know that some New Zealanders are in a position to make comparisons with overseas services and are concerned for the future of New Zealand in the South Pacific. Relate any personal benefits that you may know have come to our fine country as a result of having even a weak service to our neighbours. More information about our campaign in upcoming issues of the DX TIMES.

Shortwave Mailbag

Compiled by
BILL HUDDLESTON.

With this the last 'Mailbag' for 1981. Which has many good verifications. I wish to take space for a special thanks to our overseas members who keep in constant touch during the year, making the 'Times' international. To Frank Crow in Los Angeles with his descriptive letters, John Campbell in England recording his many interesting loggings, and of course all our Australia, and ex Kiwi members on the other side of the Tasman. To all our members in which ever part of the world you dwell, the very best for Christmas and good logging in 1982.

John Campbell England takes time from a busy schedule to report QSLs in from TWR Swaziland 3240 5055, Tipperary Community 3928, Neiva 4855, Juimani 4945 Bata 5005, Inconfidencia 6000, Carve 6155, Wicklow 6790, Rumbus 9660, plus hobby pirates Gerona 6290, Conwrde 7290, Titanic 7323, IBC 7382, ARTO 9825, and last but not the least RNZ 11945 15485, Thanks John enjoy your Christmas in the snow.

Lindsay Robinson Invercargill sent out 11 reports this month, while the nice postie delivered QSLs from Tahiti 11825, Budapest 17710, Nederland 17695, Gahel Zahal 14728, Thanks for the good wishes.

Les Boyd Wanganui says he has only about a 33% return on reports these days while reporting veries back from Beijing 15450, HCJB 11925, Finland 21465, Radio Portugal 9605. Try including more programme comment in your reports. Thx.

Michael Williams South Australia has 6 reports out and veries back from Vatican 11810, HCJB 9745, South Africa Radio 5. 3250, FEN Japan 3910 * Booklet sorry we didn't get your last report.

Peter Jones Hamilton has veries back from The voice of Asia 5980, Radio Bras 17830, Uganda 5026.

Arthur Cushen Invercargill has a good list of veries back from Pakistan 21802, Qatar 15435, Algeria 25700, R. Tacna 9485, Voice of Asia 5980, Sweden 15435, Lisbon 11955, 21555, Dubai 11940, Belgium 21810, R. Mac Mendoza 6180, Sweden 11845 AWR Europe 9555, Bahai Ecuador 2340, Vienna 15225, 21495, TWR Swaziland 5950 Athens 9535. Have a Happy Christmas.

Jim Webb Manukau has 4 reports out and veries back from Kiev 11735, Beijing 15435 + pennant and badge, nice.

John Mainland Wellington has QSLs back from Jakarta 15150, RSA 15325, WYFR 15130, 11875, SRI 25780.

Norris Sturgess Rotorua reports QSLs back from AIR Delhi 9950 10335, Norway 21730, Budapest 17710 9835, Thx.

Bill Jolly Kawerau is getting back into gear with two reports out. Have a good Christmas, do you also go skating? Thanks.

Adrean Verry Lower Hutt was please this month to have veries back from Veritas Asia 9535, ORU 15145, Mozambique 4855, Kiev 11735, HCJB 26020, I quite agree with your comment on Renasença. Thx.

Ian Cattermole Blenheim has a nice list from RM 12030, Athens 9515, RFE 15170, Vatican 9605, Veritas Asia 9535, Panamericana 6105, New Ireland 3905, New Ireland 3905, Tahiti 9750, Sofia 15160, Cuba 11930 11745, VOA 17885, FEBA 15385, Thanks for the Good Wishes, the same to you.

Ralph Sutton Wellington has a good list of QSLs from Budapest 17710, Austria 17770, R. Bras 17830, Belgium 21810, KGEI 9615, Beijing 9860, SNR 11730, Kiev 11735, WYFR 11855, Bucharesti 12015, ORF 12015 SBC 15305, RBI 21465, R. Magellanes (Moscow for free Chileans (Who ever they may be) Thanks.

Bryan Clark Auckland has the first NZ report back from Radio CBN NSW Aust. 13995. 100watts. HCJB 3220.

Laurie Boyer Invercargill reports a good list of QSLs from SBC 17715 15430 7830, RM 21600 12055 15500 9785 21565 15210 21740 11630 11790 15360 15380 15140 21690. VOF 15270, Hungary 17710, Prague 21705, VOA 3980, RBI 21540, CRF 21500, Poland 9575, HCJB 21485 6130, Saudi Arabia 11965, 7290, Israel 17685, NHK 15405, Yemen 4835, YVOD Korea 9720 DW 9705, Poland 7885, WYFR 21510 15440 ORF 11610, Portugal 11610, RN Eonaire.

Arthur De Maine Auckland has no reported loggings, but varies back from WVEH Haiti 11835, Bagdad 9745, King of Hope 6245.

Dene Lynneberg Pukerus Bay sent 13 reports out this month, and received varies back from R.Apintie 5005.7, R.Pakistan-Kawalpindi 5008.5, BTr -wvare 26050 15190 15175, RM Irkutsk 21690, Algeria 25700, RFI Allouis 21515 25900, AFRTS-Poro 26000, RRI Medan 4764, Africa No 1. 11755, Kuwait. nice list, thanks.

Ray Crawford Queensland from across the Tasman we have a report of QSLs back from Voice of Asia 5980, Sweden 21610, Austria 21610, Dubai 17710, RSA 4990, Illimani 4945 6025, and a further 14 reports sent out. Thanks Ray have a good Christmas over there.

John Thame New Plymouth with is first entry has reported QSLs back from HCJB 6130 9715 50year anniversary card. R.Nederland Bonaire 9715. many thanks for the good wishes, we are always happy to see entries from our new members.

Barry Murry Invercargill has 5 reports out this month with varies back from Moscow W/S 9785, DDR 7260, Beijing 11600, Sweden 21610, Thanks.

Graeme Pearse Masterton advises of varies back from Red Cross (SBC) 7210, RN Bonaire 9715, RSA 21535, ORF Austria 6155 12015 15560 17745 21495 21500.

Noel Parry Invercargill sent out 3 reports this month and received varies from Israel 11637, Dubai 17775, Moscow 11720, REE Spain 11880.

Russell Winter Invercargill has QSLs back from SBC 6165, DW 11795, 11865, NHK 17785, Finland 21465 SBC 21695.

Jim Gorman Papakura has been busy with 21 reports out and varies back from RM Lvov 7150, Beijing 17765, + Caleder and pennant, KTWR 17875 NHK 15325, IHK (Sines) 15405, FEBA 15200. Thanks Jim Best wishes for 1982.

A MERRY CHRISTMAS AND HAPPY NEW YEAR TO YOU ALL.

Brian Webb Upper Hutt reports having 101 reports out and varies back from BBC/Rar East relay 6195 9725 11955, Budapest 9835, HCJB 6095(4) 6130 (14) 9745(15) 11835(4) 11925 (2) 21480(1) 26020 (1). Polonia 6135, Moscow 11630, 11735, AWR Asia (SLBC Skala) 11800(2) 15425(1) AWR-Sines 15430, Jerusalem 11655. BRT 6010(2) 15175(1) 17598 (1) 21810(5) Buenos Aires (LAK35) 11710, RFI Paris 21620, Poln(DW) 11785.17715, WYFR 15135 21525, FR3 Fapeete 11825(2) 15170 (2) RFE(Liberty) 15170, Inter-national Christian Radio 9515, AWR (Sines)15430. R.Nederlands/Bonaire 9715/9770(Leach) SRI555 21570, KTWR 11840, RSA 15325, RNZ 9540, Seoul 7550

BEST OF THE MONTH

Over 9MHz.

R.Algiers 25700 KHz. 105 Points

Dene Lynneberg 100 Kw.

Under 9MHz

R. Uganda, Kampala 5026 KHz Home Sv

10Kw. October 1980. 122Points

Peter Jones Hamilton

Russel Winter Invercargill has QSLs back from SBC 6165, DW 11795 11865, NHK 17785, Finland 21465, SBC 21695. Thanks.

Alan Gilmour Greymouth has 11 reports out and QSLs in from Seoul 11725, RBI 21465, Panamericana 6105, NHK 21640, Kol Israel 21495, Lisbon 9765, RAI 15330, Budapest 6025, RN.Lopik 11720. RSA 15325, UAE Dubai 17810, Oslo 17875 ORF Vienna 21495.

Jack Searle Haumoana advises of QSLs from RM Tula 7330 Tbilisi 15500 Simerpol 15455, AIK 15205, HCJB 15360, RBI 21540.

John Durham Hamilton over the last 8 weeks has varies back from Voice of Asia 5980, VOFC 9610, AWR Sri Lanka 11835, Kaputo 4865, ICK Malta 9515, Rae 11710.

To all who have sent in details of equipment in use many thanks I will use this information at an early date.

Despite the decreasing sunspots high frequencies are still providing excellent reception with Switzerland on 25780kHz being noted recently. This is part of the script on Radio New Zealand on December 7 and 21 at 0215GMT on 15485 and 17705kHz, and repeated at 0915 on 15485 and 17705kHz. All times GMT and frequencies in kHz.

ARGENTINA: Radio Nacional Mendoza 6180kHz heard around 1000GMT. Verification by hand written letter giving frequencies as 960, 6180 and 97.3FM.

Radio Difussion Argentina, Buenos Aires, 11710kHz heard in English 0100-0130GMT. Now has English bulletins as follows: 1130, 1530, 1630, 1730, 1930, 2200 and 0100 Monday to Saturday. Also on 9690 2300-0300GMT.

BELGIUM: Brussels has made two frequency changes to North America with English 0075-0700, 9870 is poor but 11695 gives good reception. These frequencies replace 9515 and 11860.

COOK ISLANDS: Rarotonga 11760kHz now closes at 0830GMT as Cook Islands is now on daylight time.

ECUADOR: DX Party Line broadcast only on Monday and Saturday now at 0900 on 6130.

GUAM: KTWR has retimed DX Listeners' Log now heard on Friday 0100 on 17875, and at 0900 on 11840.

Medium-wave KTWG is now on 801kHz moving from 800 to coincide with the 9kHz in the Asian and Pacific area. Schedule is 2000-1400 and power 10KW.

KTWR using the new frequency of 9585 opening 0930 English, Russian at 1000.

INDONESIA: New RRI station noted on 3491kHz with news from Jakarta at 1500.

ITALY: Rome is to use some new frequencies following monitoring observations I have been conducting for them. The broadcast in Italian 2050-2130 is now on 9710 replacing 9575 while the same programme is on 7235 and 11800kHz.

LEBANON: Beirut noted on the new frequency 11780kHz with English 0230-0300 but suffers severe sideband interference from Madrid on 11775kHz.

MONGOLIA: Ulan Bator has retimed its English broadcasts and now heard 1200-1235, 1400-1435 and 1445-1520 on announced 6383, 7230 and 12070 Monday to Saturday. 12070 gives the best reception, 6383 is fair but 7230 has failed to carry English and continues to relay the Home Service.

NEW ZEALAND: Radio New Zealand has made a late change of frequencies valid to February 7. Broadcasts are 1700-2240 11960; 2250-1115 17705; 1700-2005 15485, all beamed to the Pacific; 2015-1115 15485 to Australia and Papua New Guinea.

PERU: Radio Tacna 9485 still heard closing on Sundays at 0606, sends a long letter in Spanish as verification and a tourist booklet in English. Power listed 800W.

PORTUGAL: Lisbon now broadcasts in English 0400-0330 on 6185, 11925; 0530-0600 6185, 9575.

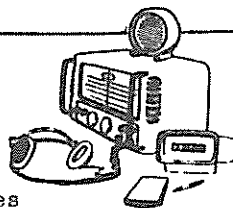
QATAR: Verification and schedule received indicates they now operate on 15435 from 0240 with interval signal then Koran recital. Sign-off is now 2055 when using 15285.

TAIWAN: The Voice of Asia is using 5980kHz and heard with Chinese/English lessons at 1030 and English hour is now 1100-1200 with news at 1100.

USA: AFRTS 11710kHz operates 0200-0400. This new frequency from Greenville with 50KW. VOA noticed on new frequency of 7325 with breakfast show to closing at 0700. Presumed to be a BBC outlet but not shown on the frequency schedule.

SHORTWAVE BANDWATCH

with BARRY WILLIAMS of Auckland



From members reports indications are that as summer draws closer the lower frequencies are deteriorating. Most DXers are concentrating on 7 mhz and above with 11 metres still producing some good signals.

A few of the rarer stations reported this month are Nepal 3425, Srinagar 3277, Ethiopia 9595, Kampala 15325, Quatar 15505 and CFCX 6005 khz. One of interest to look for is the signal on 15476 khz reported by Steven Greenyer. Is it Argentina Antarctic?

Our thanks to Bryan Clark for editing last months Bandwatch while I had an enjoyable few days escorting a school class. To all League members, we wish you a very Merry Christmas and to those DXers who have contributed to Bandwatch over the year, our thanks; Without you there would be no Bandwatch.

All times are GNT Add 13 hours for NZ Summer time Frequency in khz,

FREQ	TIME	COUNTRY	STATION	PROGRAM & RECEPTION DETAILS	INITS
3015	0930	KOREA NORTH	Pyongyang,	with home Service, Music Fair sig.	JW LR NS
3215	1500	INDONESIA	Manado	fair with relay of news from Jakarta	AC
3235	1616	INDIA	Gauhati,	In Hindi with local music, fair	NS
3277	1530	INDIA	Srinagar Kashmir,	relaying AIR news in English. Poor to fair at fade out 1559.	JD
3295	1723	INDIA	AIR,	VG in Hindi.	JS
3360	0945	PAPUA NEW GUINEA	R.Milne Bay,	Messages to districts.Fair	JW
3425	1450	NEPAL	Kathmandu,	English news and comment. 1435-1520, Good	ACJS
3491	1500	INDONESIA	RRI,	location?, Good sig with usual news relay	AC
3560	0930	KOREA NORTH	Pyongyang,	Good with English news	RC@
3607	1000	JAPAN	NHK Home Service	relay Hiroshima, fair s/off 1000	RC@
3915	1616	SINGAPORE	BBC relay	Kranji, Good signal	NS
4800	1830	INDIA	AIR Hyderabad,	ID and news in English, Fair	JS
4813	1721	PAKISTAN	R.Pakistan,	Home Service, English from 1730	JS
4934	1717	Kenya	Nairobi,	Good 30/11	JS
4980	0900	VENEZUELA	Ecos del Torbes,	Fair Spanish, music & announcs.	RS
4990	1730	NIGERIA	Lagos,	FRCN, Good in English.	JS
5015	1418	USSR	Vladivostok,	Home Service, Russian, Music YL talk	FC@
5030	1315	MALAYSIA	Kuching,	Good with local music program	RC@
5060	1705	PAKISTAN	Islamabad,	News in English, Fair- good.	JD
5995	1423	AUSTRALIA	RA,	Good with pop music.	FC@
6000	0802	BRAZIL	R.Inconfidencia,	strong with Portuguese ID & music	BC
6005	0700	CANADA	CFCX,	Montreal, with ID for CFCF followed by news	BC
6045	0806	BRAZIL	R.Clube Paranaense	with Commentary in Port. Equal signal strength with Radio Australia	BC
6100	0836	VENEZUELA	YVTO Caracas,	clear with pips and time check before each minute. Whilst not strickly SWBC, interesting occupancy of established SW frequency,	BC
6150	0800	COLOMBIA	Voz del Huila	in the clear after the BBC off. Popular music and frequenc IDs in Spanish	BC
6160	2000	BULGARIA	Sofia,	Fair in Albanian	RC@
6180	0831	ARGENTINA	R.Nacional,	" Program de Mendoza ", IDs & dance mx	RC
6185	0500	GERMANY	FED.REP.DW,	VG English to NA, News.	JW

FREQ	TIME	COUNTRY	STATION	RECEPTION & PROGRAM DETAILS	INITS
6185	0750	BRAZIL	R.Bandierantes,	VG with singing IDs, time checks, commercials, time pips and rooster call at 0800.	BC
6195	0900	CYPRUS	BBC relay,	World Service opening in English, Good	DH
6210	0630	VATICAN		Good with Latin Mass daily.	JG
6240	0600	IRELAND	R.South Dublin?	English announcement & pops till fade out 0700. Certainly a Euro/nirate.	SC
7065	2034	ALBANIA	R.Tirana,	Poor with news to Europe	KJ
7110	0500	GREECE	Avlis,	Excellent with news and music. Greek	JG
7120	0438	BULGARIA	R.Sofia,	Poor at end of news.	KJ
7150	0430	USSR	RM Lvov,	" Russian by Radio "	JG
7150	0735	GT.BRITAIN	BBC,	BBC World Service	NS
7205	2015	INDIA	AIR Delhi,	GOS. Poor with QRM	KJ
7255	0540	NIGERIA	Voice of Nigeria,	News commentary,	LYR
7270	0635	POLAND	R.Polonia,	News and commentary, good	KJ
7285	0700	GERMAN	FED.REP. DW	opening together with R.Polonia.DW on top	JS
7325	0600	GT.BRITAIN	VOA	relay of Breafast Show on this unlisted freq.	AC
7360	0506	USSR	RM,	VG signal. " Issue of the Day " 15/11	KJ
9420	0748	KOREA NORTH	R.Pyongyang,	fair to s/off 0750, Also hrd 2024	KJ
9440	1943	CHINA	R.Peking,	fair at end news then program summary	JG
9455	0530	EGYPT	R.Cairo,	Good in Arabic, music.	LR
9495	0832	MONACO	Monte Carlo,	Gospel program in English; VG strength	JW
9500	0652	ALBANIA	R.Tirana,	fair signal with some QRM	RS
9515	2030	MALTA	International	Christian Radio. Good at start EE prog.	RC@
9525	1830	PORTUGAL	R.Renascena,	opens but interference R.Polonia 1828 s/on Portuguese ID, Chimes. Good 23/11	AC
9570	0930	KOREA SOUTH	R.Korea,	Good at s/on Spanish	RS
9575	0544	PORTUGAL	R.Portugal,	Good with transmission schedule	KJ
9585	0930	GUAM	KTWR	opens in English. Russian 1000	AC
9585	0218	HUNGARY	R.Budapest,	English to s/off 0229 .NA Service	FC@
9590	0230	BONAIRE	RN,	s/on to NA with news.	FC@
9595	1900	ETHIOPIA	VORE,"	Voice of Namibia SWAPO. English to Southern Africa. News & music. Poor, QRM RFE 28/11	JM
9615	2030	TURKEY	V of Turkey,	s/on English. Poor - noisy freq.	RC@
9620	1830	YUGOSLAVIA	Belgrade,	Fair with news in English	JD
9695	2015	UAE	Abu Dhabi	(tentative) audible through RFE. Poor signal to fade out 2110. Clock chimes at 2030.	JD
9710	1750	ITALY	RAI,	opens in Arabic to Libya, Poor signal, QRM	JS
9715	0350	USA	WYFR,	Poor with religious program. English	KJ
9755	0445	BONAIRE	TWR,	English to NA with ID. Fair; ex 9700 khz.	JM
9760	0652	CANADA	RC,	Good English, news weather etc.	LYR
9765	1930	SPAIN	REE,	Good in English to Europe, News 2030	JW
9870	0015	BELGIUM	Brussels,	weak English to 0100, New frequency	RS
11600	0930	CHINA	R.Peking,	strong signal with world news, English	AC
11700	2045	VATICAN	Vatican Radio,	English to Africa, fair	DH
11710	0200	NEW CALEDONIA	R.Noumea,	Excellent in French	JM
11740	0600	NORWAY	Oslo,	Norwegian talk, English ID, New freq.	RC@
11740	1630	SWAZILAND	TWR,	Half hour English program, Fair signal	JM
11750	1300	SINGAPORE	Kranje	BBC relay, ID then World news.	JS
11755	0315	UAE	Dubai,	Arabic program; English 0330, news good.	FC@
11760	1602	COOK IS.	R.Cook Islands,	with RA news relay. uses 12C's jingle at 1610. polynesian music, Poor	JM
11770	0405	CANADA	RCI,	Fair with news to NA. some QRM	DH
11780	0245	LEBANON	Beruit,	Fair in English Service, ex 15170 khz	KJ
11805	2250	USA	WYFR	Good closing in English, Fair at 2102 English	JM
11815	1125	BONAIRE	TWR,	Religious program	KJJS
11830	2215	VATICAN	Vatican Radio,	Religious program.	LYR

FREQ	TIME	COUNTRY	STATION	PROGRAM & RECEPTION DETAILS	INITS
11840	2000	SPAIN	REE	fair ing English , news 2030	RC@
11840	2030	VIETNAM		Voice Vietnam, s/on with news in Eng. Mixed Strain	RC@
11840	0745	GREECE	VOA	, s/on African Service , News English/Hausa.	KJ
11840	0747	GUAM	KTWR	IS to s/on 0800 fair. until VOA off 0815 then good.	LYR
				0845 fair with regilous rporram .	KJ
11845	0304	CANADA	RDI	Good with world news in English .	JW
11850	0800	NORWAY	Oslo	Good with comment. Sundays.	LR
				0745 Excellent English news and information .	RS
11855	0830	CZECHOSLOVAKIA	R.Prague	VG in English , nnews Coment.	LYR
11860	0600	SPAIN	REE	Good with news in English	RS
11890	0400	Oman	Muscat	, Arabic Service. Fair 8/11	RC@
11925	0730	Ecuador	HCJB	VG signal , 0835 "Family Bible Hour"	RS
11930	0313	Portugal	R.Portugal	, News, fair signal .	KJ
11940	0500	UAE	Dubai	, News	LR
11940	0647	RUMANIA	R.Bucharest	, Good English news & political comment.	RS
11940	1029	SINGAPORE	Singapore BC Corp.	, Music, Adverts. Good signal	NS
11950	0524	USSR	RM	WS to Euro/Africa , fair . Also good 0705	JW
11980	0732	USSR	RM	, Fair in English " Jazz Hour "	RS
11985	0703	ALBANIA	R.Tirana	, VG English news,	LYR
12015	0500	AUSTRIA	ORF	, German with musical program	LR
12070	1204	MONGOLIA	Ulan Baotr	, Excellent signal in English , Commentary	DH
13797	1630	ICELAND	Reyjavik	, SSB transmission , IS at 1900.	AC
15060	2050	AUDI ARABIA	Riyadh	, Strong in Arabic	BW
15105	0100	GERMAN FED.	REP.	DW Good English to NA. News, German lessons	JT
15105	0500	ISRAEL	IBA	, Good with news.	LR
15105	0127	MALTA	DW relay	, Fair to NA . s/off 0150. (see Above)	KJ
15115	2228	INDIA	AIR	, GOS, good to s/off 2230.	KJ
15150	2130	CANADA	RCI	, African Svce, News followed by SW Listeners Digest.	JW
				2150 with fair signal	KJ
15155	0805	FRANCE	RFI	, French news, music, good signal	JG
15160	0745	BULGARIA	R.Sofia	, Music and talk	LYR
15165	0523	NORWAY	Oslo	, English ID during Norwegian prog. ex 15125 khz	JM
15185	0435	QUATAR	Doha	, English Arabic news, ID fair, ex 15520 khz	JM
15185	2030	USA	WINB	, Good in English .	BW
15200	0400	SEYCHELLES	FEBA	, Good English Gospel. To East Africa.	RC
15210	2045	EGYPT	R.Cairo	, strong with GRM from Moscow 15215 in Hausa.	BW
15225	2030	TUNISIA	Tunis	, weak in Arabic. /0644 Fair Arabic music	BW
15240	0321	AUSTRALIA	RA	, Aust/Jap. joint board committee discussion??	JW
15240	0902	GUAM	KTWR	, TWR Radio Pacific, opening session. times etc.	JW
15255	0720	PORTUGAL	RFE	, News in Czechoslovakian.	JG
15270	2000	LIBYA	Tripoli	, Very good in Arabic	BW
15365	2154	SWITZERLAND	SRI	, Fair to Africa, Good at 0706, 0145 Gd EE.	RSKJ
15320	2015	UAE	R.Dubai	, Fair Arabic, talk. News 2030, 0320 VG English	JSRC@
15325	0700	JAPAN	NHK	, Strong in English news,	JG
15325	0315	UGANDA	Kampala	, English ID news good.	JM
15325	2130	CANADA	RCI	, " SWL Digest " Saturday .	GP
15330	0350	ITALY	RAI	, Good level in English to SE Asia.	JS
15350	0400	LUXEMBURG	R.Luxemburg	, Fair with pops and French announcem.	SG
1539	0735	AUSTRALIA	RA	, Excellent signal . Jazz.	JW
15405	0700	PORTUGAL	NHK relay	, news and current topics.	JW
15435	0931	CHINA	R.Peking	, Fair with English news. / VG at 0845	GP
15440	2050	USA	WYFR	, VG with European Service. / 2158 Religious	KJ
15450	0640	GERMAN DEM.	REP. RFI	, English to SE Asia, Additional freq.	JM

15476	2340	ANTARTICA	Argentina	, R.Nacional, (tentative) Classical vocals with announcements by female in Spanish . (Can someone ident. this interesting one ?)	SG
15485	1207	NEW ZEALAND	RNZ	, Poor to past 0220	KJ

FREQ	TIME	COUNTRY	STATION	PROGRAM & RECEPTION DETAILS	INITS
15500	2115	PAKISTAN	R.Pakistan	, Test transmission, English ID, Fair	JM
15505	1805	QUATAR	Doha	, Arabic ID during news, Fair with new freq,	JM
17555	1840	GREECE	VOA	, Voice of Greece, VG News brief, s/off 1850	GP
17595	1710	BELGIUM	Brussels	, English to Africa, good signal.	AC
17705	0900	NEW ZEALAND	Wellington	, severe interference from BBC, Greece, and India all on the same frequency .	AC
17710	0015	HUNGARY	R.Budapest	, VG with Spanish news.	RS
17755	2200	JAPAN	R.Japan	, Fair in English .	JS
17765	0830	CHINA	R.Peking	, good with news ,English	JG
17765	0318	USA	AFRTS	, Fair with news etc.	KJ
17770	0830	AUSTRIA	ORF	, Excellent Eng. news, Magazine program .	RS
17775	0330	UAE	Dubai	, English news and documentary.	JG
17775	0035	PHILIPPINES	R.Veritas	, Fair with English news.	JM
17810	0536	UAE	Dubai	, Good with news,	KJ
17810	0200	JAPAN	NHK	, Fair with world news in English .	JW
17830	0240	BRAZIL	R.Bras	, " Looking at Brazil " Good. 15280 // fair.	GP
17845	0030	USA	WYFR	, American/Canadian Service. 2235 DXprogram	KJ
17855	1905	BRAZIL	R.Bras	, Good in English, some co-channel GRM.	LR
17860	1701	FRANCE	RFI	, " Paris Calling Africa " , Fair signal	FC@
17865	2030	UAE	Dubai	, Good with Arabic news.	RC@
17875	0100	GUAM	KTWR	, DX Listeners Log on Fridays. 0003 Religious	JG
17920	1215	EGYPT	R.Cairo	, News, Biography of Pres. Sadat.	LYR
17930	1815	LIBYA	Tripoli	, Arabic // 15415, 15270 khz,	NS
21460	0840	BELGIUM	Brussels	, French, some GRM from Finland	NS
21465	0707	GERMAN DEM.	REP. RFI	, Poor with news	KJ
21465	0800	FINLAND	Helsinki	, Good signal in English ,	LYR
21485	0555	RUMANIA	R.Bucharest	, Fair to Europe	KJ
21500	0830	AUSTRIA	ORF	, News talks.	LYR
21575	0815	GERMAN DEM.	REP. RFI	, Excellent with English news,	JG
21595	0230	PAKISTAN	R.Pakistan	, fair with slow speed English news.	JG
21610	0225	JAPAN	NHK	, NA Service including Asian news.	GP
21670	0350	PHILIPPINES	AFRTS	, poor to past 0515	KJ
21755	0244	PAKISTAN	R.Pakistan	, News at dictation speed.	JW
21800	0900	PAKISTAN	R.Pakistan	, Good in Urdu, music program	RC@
21810	0845	BELGIUM	Brussels	, Classical music program on Sundays	RC@
25615	1115	NORWAY	Oslo	, Good signal, Norwegian news , requests	JG
25640	1204	ISRAEL	IBA	, English news, suffered some jamming.	JG
25730	0800	NORWAY	R.Norway	, " Norway this week "	LYR
25780	1030	SWITZERLAND	SRI	, Swiss folk music to 1100 then English 1130	AC
				Fair at s/on 1030 becoming better.	JG
25820	0835	FRANCE	RFI	, Talk in French	LYR
26000	1735	PHILIPPINES	VOA	, weak with English transmission	NS
				Two VOA transmissions mixed . One went off at 2300	JS
26020	0445	ECUADOR	HCJB	, Good with NA Service, " Passport "	GP

A reminder to all contributors . Please give language when sending notes in . I am not prepared to assume the language is English when nothing is stated.

Our thanks to the following :-					
JD	John Durham	Hamilton	JW	Jim Webb	Manakau
BW	Brian Withers		JT	J?Thame	New Plymouth
AC	Arthur Cushen	Invercargill	JM	John Mainland	Wellington
LR	Lindsay Robinson	Invercargill	KJ	Kelvin Jensen	Motueka
JG	Jim Gorman	Auckland	GP	Graeme Pearse	Masterton
NS	Norris Sturgess	Rotorua	SG	Steven Greenyer	Invercargill
BC	Bryan Clark	Auckland	JS	Jack Searle	Haukoana
RS	Ralph Sutton	Wellington	LYR	Lyall Rowe	Hawera
RC@	Ray Crawford	Queensland	FC @	Frank Crow	Los Angeles

Shortwave REPORT

JOHN MAINLAND

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BRAZIL Radio Nacional de Brasilia announced on 31st October that as from November 9th it would be broadcasting to South America in Spanish on 9665 at 0000 GMT.

FINLAND A Radio Finland schedule for the period beginning 1st November shows the following frequency changes: 0400-0430 Finnish 9610; 0500-0515 Finnish 9610; 0600-0715 Finnish 11755, 9765, 6120; 1700-1800 Finnish 11845, 9755; 1930-2000 EE 11755, 9755; 2000-2025 Finnish 11755, 9755; 2130-2200 EE 11845, 9655; 2200-2245 Finnish 11845, 9655. **BBC MS 29/10**

GREECE Radio Station Macedonia is currently heard from 1100-1430 on 9855v in addition to 9815v. **BBC MS**

TAIWAN The Standard Chinese network beamed to the mainland of China from the China Broadcasting Service in Taipei is heard on additional 9630 which is possibly a 24 hour service. **BBC MS 29/10**

UNITED ARAB EMIRATES A UAE Radio (Dubai) frequency schedule for the period beginning 6th October shows that its AA & EE external service is: 0225-0400 17775, 15320, 11940; 0415-0600 21700, 17810, 11940; 0615-1000 21700, 21655, 17775; 1000-1100 21735, 21700, 21655; 1100-1500 21735, 21695, 21655; 1500-1700 21695, 21655, 17710; 1700-1730 21655, 17710, 15320; 1730-2050 17865, 17710, 15320. **BBC MS 29/10**

GERMAN DEM REP RBI EE to South East Asia: 0645-0730 21540, 21465, 17700, 15450; 1215-1300 & 1330-1415 21540, 21465, 17880, 15450; 1515-1600 21465, 17880, 15450. Since Nov 2nd RBI broadcasts daily to the Far East: EE 0815-0900, 0945-1030 on 21575.

FEDERAL REP OF GERMANY The Deutsche Welle programme schedule for the period starting 1st Nov shows that pxs in Russian have been reorganised. The former 0400-0435 transmission has been extended and is now on the air from 0345-0450 on 11940, 9690, 9650, 7285 and 6130. The former 0700-0735 transmission has been discontinued.

BBC MS 5/11

NORWAY The Radio Norway external service programme schedule from 1st Nov states that some time in 1982 two new 500 kW shortwave txs will be ready for use. As from the end of next year, Radio Norway will be making changes to its transmission schedule. **BBC MS 5/11**

BANGLADESH plans to add four new 250 kW transmitters, new fqs registered but not yet used in EE: 11820, 17890 0445-0515; 1230-1300 21670, 15280, 11725; 1815-1915 15150, 15285. **RCI SWLD 14/11**

GUAM KTWR is using three transmitters not yet four, EE now scheduled: 0000-0030 17770, 15265; 0030-0130 17770; 0800-0930 11840; 0930-1000 9625; 1530-1600 9640. **RCI SWLD 14/11**

CHINA Guizhou 3260, 7275 is operating at these new times: 2130-0600 (Sun 0200), 0850-1600. **RN DX 19/11**

RADIO YUGOSLAVIA AA 1500-1530, EE 1530-1600 9620, 15240, 15415 (10kW). **RN DX 19/11**

BRAZIL Finn Krone in Denmark reports Radio Nacional de Amazonia 4835 closing at 0410 which could be the new 250 kW tx operating from Manaus to cover the Amazon region. **RN DX 19/11**

USSR/CUBA According to a recent survey, Radio Moscow's EE language external services are relayed from txs in Cuba as follows: 0000-0500 9600, 1000-1300 9600, 1300-2200 11840. **BBC MS 12/11**

RADIO PORTUGAL EE 0300-0330 6005, 11925; 0530-0600 6005, 9575; 1600-1630 (Mon-Fri) 15105; 1800-1830 (Mon-Fri) 15355, 17880; 2030-2100 6025, 9740, 11775; 1700-1730 (Sat, Sun) 17880. **RDP annc 23/11**

MONGOLIA Radio Ulan Bator EE (Mon-Sat) 1200-1235, 1400-1435, 1445-1520 on 12070, 7235, 6383. **per annc 23/11**

FINLAND On 14th Nov, Radio Finland ceased using 25950 for its 1530-1600 and 1600-1630 txs in Finnish and Swedish, replaced by 21475. **BBC MS 19/11**

CENTRAL AFRICAN REPUBLIC announced from Bangui on 14th Nov that its equipment was about to be improved, including acquisition of a shortwave transmitter. **BBC MS 19/11**

POLAND Here are some of the programmes on Radio Polonia's North America service at 0200 & 0300 GMT, Tues: Folk music, Wed: Polish Culture, Thurs: Science Review, Maritime Magazine or Polish-American Magazine, Sat: Mailbag, Sun: Week in Poland, Hit Parade & Language Lessons, Mon: Stamp Talk & Polish Castles. **RN DX 3/12**

ECUADOR Regular programme features on HCJB's "Passport" are: Monday: Embassy Roundup, Tues: Profiles of South Americans, Wed: National Geographic News, Thurs: Visiting Ecuador, Fri: Latin American Press Review. **RN DX 3/12**

SPECIAL

RADIO CBN in Sydney is now being heard on an irregular basis by listeners in New Zealand and Bryan Clark of Auckland has just received the 1st Trans-Tasman QSL from the station.

The station uses a power of 100 watts and its schedule of broadcasts in the near future is shown on this page.

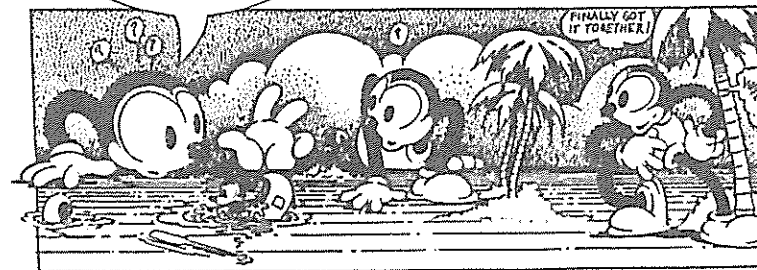
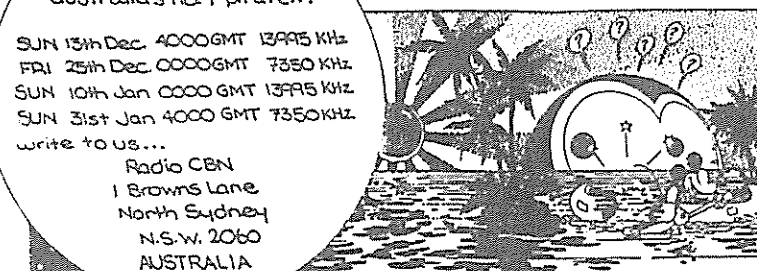
Run by Chris Markham and Ken Gordon, CBN has been on air for several years on FM but have now introduced shortwave so that they can reach

DEC 91- JAN 82
TRANSMISSION GUIDE
RADIO CBN
australia's no. 1 pirate..!

SUN 13th Dec 4000 GMT 13995 KHz
FRI 25th Dec 0000 GMT 7350 KHz
SUN 10th Jan 0000 GMT 13995 KHz
SUN 31st Jan 4000 GMT 7350 KHz

write to us...

Radio CBN
1 Browns Lane
North Sydney
N.S.W. 2060
AUSTRALIA



a far wider audience. During 1980 a new console was built and a transmitter acquired for the shortwave broadcasts. CBN began broadcasting in 1976 and soon obtained a small but devoted audience in the Sydney suburbs. Pirate broadcasts also took place from Melbourne in 1978 and Mount Gambier SA in 1979. CBN are not the only pirates to have been on air in Australia, with a "Radio Free Australia" on air some time ago and a mediumwave station 2DX on air in Sydney during 1977. From time to time the various universities in metro areas have had pirate broadcasts for "their muck-up days". CBN plans for the future are to improve shortwave broadcasts and they have no intention of returning to FM because of the large number of stations already on air in Sydney. They also intend to open a pirate TV station within the near future once the necessary equipment has been built. **Tharunka Magazine via Bryan Clark**

SHORTWAVE PIRATE TESTS : John Campbell of England sends news of 3 tests which are sure to be of interest to DXers in this part of the world as they give the opportunity of logging stations in Ireland, Scotland and the United States.

South Dublin Radio on 6240, 6243, 6245 or 6247 khz from 06:00-08:00 GMT on 6 and 13 December plus all Sundays in January and February 1982. Address for reports : North Street, Swords, Co Dublin. **Weekend Music Radio** from Scotland transmitter site: 05:00-08:00 GMT on 20 and 27 December, 17 and 31 January 1982 and 14 and 28 February 1982. Frequency almost certainly 6260 khz but may have the ability to use 6250 khz or 6289-6290 khz. Address for reports: 42 Arran Close, Cambridge, England. **Radio North Star International** an American pirate from 19:00-20:00 GMT on 28 December on 13787 + or - 2khz. Address for reports: PO Box 982, Battle Creek, Michigan 49016.

NEW AERIAL DESIGNED FOR SHORTWAVE LISTENING!

- * * * * *
- Consider these features:
- *Peak performance from the 16 to the 49 metre bands
- *No usual 'fall-off' in performance of a measured dipole
- *Broad bandwidth, giving stronger signals
- *Overall length is shorter than a comparative dipole
- *Easy to assemble kitset
- * * * * *

We have been marketing SUPREME Master Aerials for the Radio Amateur for many years, and the Shortwave Master has been designed especially for the Shortwave Listener.

For good listening results, it is recognised that a dipole should be 'cut' for the particular band commonly listened to, however, Shortwave Listeners prefer to scan the bands so a 'fall-off' in performance occurs and the dipole then performs like a longwire.

The SHORTWAVE MASTER overcomes this by 'presenting' in effect 3 dipoles to your receiver. SUPREME achieves this by using two sets of traps in the aerial - this broadens the bandwidth and gives stronger signals over a greater frequency range.

These traps are really 'electrical switches' which isolate each section of the aerial not required at the listening frequency, so we have 3 dipoles each automatically selected by your receiver. All this with only 1 feedline! These traps have a 'loading' effect on the aerial which shortens the overall length - an ideal space-saver!

Mr. John Denton of Christchurch, who is the official BBC reporter and an ardent shortwave listener, comments "The SHORTWAVE MASTER is a compact shortwave DX antenna capable of nearly total spectrum coverage from BC to above 18MHz. This would satisfy the most serious DX listener".

This easy-to-assemble kitset aerial comes complete with traps, wire, centre insulator and full assembly and installation instructions. Price \$79-95

SEND FOR YOURS TODAY to
Tricity House
P.O.Box 1410, 209 Manchester Street
CHRISTCHURCH 1.

CONVENTION 82

Once again, Southland Branch is to host another popular NZRDXL Convention, to be held over Easter 1982 at the widely-known listening location at Tiwai. If you are considering attendance at the Convention, a brief description of the site may be in order: Activities will be centred in a farmhouse and associated buildings some 20 miles southeast of Invercargill. Limited accommodation in the house means that caravans will be used too. Ideal listening conditions free from electrical interference are possible because the nearest electricity supply is six miles away - note that battery-powered receivers are needed, therefore! Reception at Tiwai is, arguably, the best in the world.

Members from various parts of New Zealand and one from the United States have indicated their intention to come. To ensure a successful Convention, your early registration is vital. Write for a Registration Form to: Convention 82, PO Box 1313, Invercargill. As the accommodation is free, the only cost covers meals and all you have to arrange is your transport to and from Invercargill. If you wish to bring your partners or other family, billet arrangements will be possible.

market square

FOR SALE

REALISTIC DX 300 Communications Revr
digital LED readout, 10kHz-30MHz.
Excellent condition.

Also
-Single channel graphic equaliser
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Offers to: Barry Murray, 73 Dunbeath
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ICA AR-88D communications revr in
working order. Ring Michael Pollard
(04)890903 (or Temuka 1015 22 Dec-10
Jan). Or write to:Publisher, DX Times
PO Box 2956 Wellington.

CHANGES OF ADDRESS:

Please note that permanent changes of address must be sent to the Membership Secretary in Invercargill.

FM days of reckoning

Ever since the Radio Corporation of America gave Major Armstrong permission to share their experimental TV lab on the top floor of the Empire State building in 1935, owners of AM stations began to feel nervous about FM as a competitor. In pre-World War II days, FM was a novelty to most, sure it had good sound quality, no stereo of course, but then in those days, no AM transmitter was pushed beyond 90% modulation except for a short sharp burst when Emmie Bettendorf or perhaps Essie Ackland hit the heights of their scales and their loudness contours. The lack of audio limiters in broadcast installations made an average of 60-70% modulation imperative. Of course, Scott and other radio receivers were rare so the full qualities of FM broadcasting were seldom evident. Europe was the first to see that FM is the only method of broadcasting where the limits of the signal could be controlled, where a small town could be served by a low powered transmitter connected to an antenna mounted on the Town Hall : so 100 watt stations were established by the BBC who in their infinite wisdom operated these low power VHF stations with AM although Major Armstrong delivered papers and encouraged use of his FM at no cost.

Following the war, Europe continued with new low power FM stations, but the BBC still stuck to their AMs. In the U.S. some universities started classical music stations with 5 watts, and one or two commercial stations started up in New York and Chicago with 1kw. By the time stereo was approved by the FCC around 1958, the race between AM and FM broadcasting was on and away. Ten watt noncommercial stations in schools were very common and the average commercial station operated with 5kw transmitter power into a one or two bay horizontally polarised antenna. The stereo up till 1965 was a ragged affair, I remember spending hours tuning and balancing the stereo generators of that time to get a 14db separation between 100hz and 4000hz at sign-on, but by lunchtime a tube had aged or the heat had warped the tuning of the excitor and you lived with about 8db. But then the stereo FM receivers were no great shake either, most of it was in the eye, not the ear, of the believer. John Moseley came first with a stereo generator/excitor around 1969 that really worked. I remember putting on a program called "Engineers Choice" wherein I would drop out one channel, put in phasing tones and run frequency response test signals to demonstrate where we had got to. The listeners found their sets very short of transmitter performance at this time, so the local HIFI stores did a roaring business in the new receivers.

With the composite signal consisting of monaural program, left plus right in phase between 20 and 15000hz for monaural receivers, together with the 19khz pilot signal and the suppressed carrier signal at 38khz which carries the left minus the right out of phase signal, any reflection of the broadcast signal on its way to the listener causes multiple paths so that more than one signal is heard, each slightly differing in arrival time. This creates havoc with stereo as it did later on with the composite color TV transmission. Circular polarisation of the signal by using specially constructed antenna elements was FCC approved and signal reflections from tall buildings, cliff faces and hills were minimised. Circular polarisation of TV transmission and reception is now common in the U.S., just at a time when cable TV reception is approaching the majority of TV reception methods.

By 1975, FM broadcasting had reached a technical performance level far beyond any AM capability, commercial billing began to be greater on FM than AM in the big cities, and most importantly, a factor was developing that was not evident in any planning. A new type of teenager was emerging who was reared on stereo cassettes and records, so why, when listening to radio in the car or on the beach, did one have to put up with one audio channel with a restricted frequency response that is very evident to young ears? The portable and auto radios sported cassette playbacks. This started a new race by the FM broadcaster, to woo the teenage listener back to radio. As of now, the FM broadcaster is winning. Promotional giveaways, clever young DJs and interviews with rock stars are not available on cassettes.

The technical part of FM is not standing still. In the late 1960s, there were no restrictions on power and transmitter manufacturers were limited to the tubes available. So Eimac, a company started by Bill MacCollough, a ham, began a new line of ceramic tubes; Jampro, an antenna company started by a gifted designer Peter Onnegan, developed antennas that were circularly polarised, and that could be "stacked" for better efficiency and capable of handling many kilowatts. Andrews out of Chicago developed three then five then nine inch and larger diameter coaxial cables to carry the power to the antenna elements. So the stage was set until one station operated with a power of 500kw from their antenna. The FCC stepped in and restricted power so that 100kw was the maximum ERP although they did allow a few stations to retain 250kw to the present day. Elevation of the antenna also restricted power so that for a sea-level 100kw that moved to a 10 000 foot mountain top, ERP power was limited to 250 watts. In this age of 1981 there are 3 classes of commercial stations; A B and C. A's are limited to 3000w for local communities, B's are for up to 50kw for coverage of large cities and the C's with 100kw serve large cities and surrounding areas

The choice of antennas is usually restricted by the contour of surrounding land and the height of the antenna itself. Using a large number of antenna bays restricts the vertical beam width to the same degree as a lens over a lighthouse lamp. In some very flat areas such as Kansas, up to 12 antenna bays are stacked, this intensifies the power fed to the antenna array into a narrow beam so a "power gain" factor is used. So to obtain the maximum permissible 100kw ERP with a 12 bay antenna, only about 16kw of transmitter power is required. A hilly terrain usually means no more than 6 bays where 32kw of transmitter power is required. Apart from the cost of the transmitter and tube replacements, the electrical power bill difference between a 16kw and a 32kw transmitter output can be upwards of \$US 2000 per month.

New consoles now available are virtually distortion free, noise measurements are less than 120db below program level, the FM excitor and stereo generator units are now combined where the RF is generated by synthetic methods that make frequency drift impossible and noise reducing systems such as Dolby are included. The largest FM transmitter available at this time is 30kw output but they can be "combined" to produce any level of power through Eimac make tubes that could produce 250kw in one transmitter at 100mhz.

From all these developments with high power comes some valuable accessories for the small community broadcaster. Say we find a town with around 50 000 population with a surrounding rural area with a commercial and social dependency out to 15 miles. The terrain is hilly up to 300ft peaks and the town has a central hill of 500ft. A Class A station with 3kw ERP would adequately cover the area. A 6 bay antenna would permit the use of a small 1500 watt transmitter using 2kw of electrical power each hour. The antenna could be on the 500ft hill, no ground system is required as with AM so it can all be camouflaged in a small hut about 6 foot square with a wooden utility pole of about 60 feet high to carry the antenna. Programs could be passed from the downtown studio by a small 8 watt microwave system. The community gets a high fidelity stereo program and the owner not only sells commercials to cover his operation, but can also broadcast background music on the same transmission system for stores and restaurants in the town that can be picked up only by special receivers.

A comparable AM setup would require 20 acres of land to accommodate the radial ground system, an unsightly tower of at least 165 feet and an hourly power consumption of around 20kw all for a monaural signal limited to 8000 hz on the treble end.

Already in the U.S., the commercial billing for a combination AM/FM station is around 60% in favor of the FM side on the average, although here in Honolulu we do have a combination station where FM outsells AM by a 3 to 1 margin. By 1990, it is doubtful whether 50% of the present AM stations at present operating will be on air in Hawaii.

a. roycroft

FM FOR NEW ZEALAND

The article from Alan Roycroft is most appropriate at this time when NZ is in the throes of introducing FM and also reflects the increasing interest by DX League members in FM Radio.

Applications have now closed for 2 FM commercial warrants for Auckland and 6 applications have been lodged. Sitting on 22 December, the Broadcasting Tribunal will fix dates for hearing applications from Hauraki Enterprises Ltd, Metropolitan FM Broadcasting Ltd, Stereo FM Ltd, Broadcasting Corporation of New Zealand, FM Radio Enterprises Ltd, and Mount Auckland 1981 Ltd.

No applications have yet been received for short-term FM warrants which the Tribunal hopes will give the public a taste of FM Radio.

Newsitem via Bryan Clark

A noncommercial FM station is planned for Hawkes Bay with Beautiful Music/Gospel format. Jack Searle

Peter Hoskin of New Plymouth has written with news of recent FM reception that follows on from the South Pacific FM guide which was recently in these pages.

Suva on 90.6, Australian TV 91.7, UnID 92.5, ABC 93.3, FR3 Noumea 96.4/99.3, Canberra 101.9, 2MBS-FM 102.5, 2CBA-FM 103.2, ABC 103.7, UnID 107.8.

Peter notes that reception is possible both night and day at his QTH in New Plymouth.

Bryan Clark noted a pirate FM on air 28 November for the Auckland area from 09:00-11:00 GMT and another on 5 December with excellent stereo reception of Radio Auckland 92. The actual frequency was 91.8 heard from 02:38-03:55 GMT and quoting one announcement heard "This pirate transmission is in protest at the delay in bringing FM to New Zealand. The United States has had FM for more than 30 years."
Bryan Clark

LEAGUE LADDERS

DIVISION	JUN	DEC	INC	GNT	DIVISION	JUN	DEC	INC	GNT
GOLD STAR (1250+)					GOLD STAR (1250+)				
Arthur Cushen	2497	2519	22	145	Arthur Cushen	5107	5204	97	245
Ray Crawford	1614	(1622)	8	167	Dene Lynneberg	2446	2485	39	220
Laurie Boyer	1453	1517	64	108	Ray Crawford	1757	(1759)	2	175
GOLD ACE (1001 - 1250)					GOLD ACE (1001-1250)				
Eric McIntosh	1152	1170	18	90	John Mainland	1647	(1663)	16	210 +
Robin Chambers	1036	1049	13	123	John Durham	(1643)	1649	6	199
SILVER AGE (751 - 1000)					SILVER AGE (751-1000)				
Dene Lynneberg	879	920	41	104	Ian Cattermole	1523	1561	38	142
Chris Martin	771	789	18	155	Bill Huddleston	(1459)	1494	35	152
ACE (501-750)					ACE (501-750)				
David Ricquish	681	704	23	56	Bryan Clark	1369	1378	9	211
Bryan Clark	546	567	21	98	Günter Jacob	1360	1368	8	132
Harold Looker (553)	-	-	-	28	GOLD ACE (1001-1250)				
SENIOR (301-500)					GOLD ACE (1001-1250)				
Ian Cattermole	481	482	1	28	Jack Searle	1144	1185	41	141
Lance Johnston (389)	393	393	4	32	SILVER AGE (751-1000)				
John Campbell	383	405	15	103	John Campbell	879	936	57	230
Stuart Forsyth	306	322	16	21	Lindsay Robinson	813	834	21	121
INTERMEDIATE (151-300)					INTERMEDIATE (151-300)				
Alan Gilmour	272	282	10	40	Peter Jones	783	823	40	128
Lindsay Robinson (237)	244	244	7	25	ACE (501-750)				
Paul Rawdon	193	(194)	1	28	Eric McIntosh	690	695	5	119
Jack Searle	193	196	3	20	Laurie Boyer	684	822	138	118
Günter Jacob	174	175	1	34	Jim Gorman	595	614	19	82
+ Paul Ramsay (172)	-	-	-	6	Paul Rawdon	591	(604)	13	141
Peter Jones	161	167	6	14	Alan Gilmour	546	611	65	119
JUNIOR (50-150)					JUNIOR (50-150)				
Jim Gorman	112	119	7	8	Cecil Symmes	543	(547)	4	114 +
Steven Greenyer	75	75	0	27	SENIOR (301-500)				
Paul Schnell	55	(58)	3	6	Steven Greenyer	490	498	8	142
Andrew Gardner (53)	64	11	4	4	Lance Johnston (466)	467	467	1	84
Totals in ()'s means you didn't contribute this time, or you didn't start in June.					INTERMEDIATE (151-300)				
+ means either contribute this time or be deleted.					Stuart Forsyth 200 207 7 67				
Section winners are underlined. You may be wondering about the SW Inter-mediate section. I can't win because I didn't contribute my QSL's this time. Please note, Bryan Clark's totals now reflect the increased broadcast band. If you have veries from stations in the 1602-1800 kHz range please adjust your totals for next time. Thanks to all who contributed this time round, best of luck for all examination candidates, good DXing over the Christmas - New Year period, and a Merry Christmas and a Happy New Year to you all.					Ian Wells 169 (172) 3 65				
					JUNIOR (50-150)				
					Michael Williams 144 158 14 44				
					Ron Bower 136 289 153 58				
					Arthur deMaine 130 137 7 62				
					Les Boyd 110 124 14 42				
					Paul Schnell 83 (88) 5 47				
					Frank Crow 77 98 21 26				
					Bill Mannix 60 (62) 2 51				
					Nicholas Pacey 54 123 69 68				

Stuart

BROADCAST DX

ACKNOWLEDGEMENT

The Southland Branch has advised that it will no longer edit the Broadcast DX section of the magazine. Our thanks go to Steven Greenyer and other members of the Invercargill team who have been editing the pages for the last few years and we hope that you will now have some time to DX the dials and let us know of your catches. In the meantime, Editor of Broadcast DX will be David Ricquish

PACIFIC NEWS

New Zealand : Radio Rhema has filed an application for an AM warrant in Auckland to originate its own programs. Relay transmitters are to be located at Whangarei, Tauranga and Hamilton. (B.Clark)

Radio I 1352 Auckland has applied for a change in transmitter location from Howick to Te Atatu North on the other side of the city to improve coverage of the metro area. (B.Clark)

The Director-General of Radio New Zealand advises that after discussions with his Taupo Manager (who now fully understands the situation), QSL cards will be issued for reception of all 3 stations under Taupo control: 1YT 1ZA and 1ZT. (A.Cushen)

Hawaii : KORL Honolulu 650 khz uses ID "K-65" and has 24 hour NSP with Al Hamms Music of Your Life automated programming of light music, big bands. ABC News. Old radio shows aired 07:00-08:00 GMT Tue-Sat. (Park, NRC)

KIPA Hilo 620 s/on daily 10:00 GMT, progressive jazz and rock at nights, University of Hawaii basketball and Watermarks Top 40. Alan Roycroft has replaced the old steel guy wires with new selfinsulating resin wires and would like DX reports on the station. There appears to be no change in the signal strengths in the Hilo area. KIPA was noted with fair signals at 16:13 GMT in mid-November by Bryan Clark at Pauanui.

(Park NRC, Alan Roycroft via Mike Smith, B.Clark/T.Marr)

HAS YOUR TOWN GOT ONE TOO?

Shortterm warrants are springing up all over the countryside over this summer season and as well as some old friends returning, we have some new stations to welcome to the dials.

693 khz Radio New Zealand has a 4 week licence to provide a community information and entertainment service in the Bay of Islands. Power is 400 watts, the transmitter is located at Russell and a 24 hour program will be on air from 14 December (11:00 GMT) through 17 January 1982 (10:59 GMT). Local programs 17:00 GMT to 06:00 GMT and the remaining hours will link with community radio network. During local breakouts, 1ZE Kaikohe 1215 khz is authorised to be a relay station. Radio New Zealand plans to install the transmitter permanently during 1982. Reports to RNZ, PO Box 845, Whangarei.

990 khz Radio New Zealand 2XL has a 3 week licence to allow 2ZA 927 Palmerston North to provide a service of community information and entertainment to the Horowhenua region with local Levin and districts programming. Power is 200 watts, transmitter located at Levin and a 24 hour program will be on air from 11:00 GMT on 3 December to 10:59 GMT on 24 December. On Monday to Friday local programs will be originated between 17:00 GMT and 01:00 GMT. On Saturdays local programs from 17:00 GMT to 06:00 GMT. Remaining hours in link with 2ZA but breakouts are allowed at other times for coverage of any significant event occurring locally outside the authorised hours. Radio New Zealand has longterm plans of establishing a permanent station in the Horowhenua. Reports to RNZ, PO Box 617, Palmerston N.

1233 khz Radio Kapiti 2XK has a 2 month licence to provide a local entertainment and information service for the 10-44 age group living in and around Paraparaumu, Waikanae and Kaumati over the peak summer holiday period. Power is 1kw (20:00-08:00 GMT) and 500 watts (08:00-20:00 GMT), transmitter located at Paraparaumu and a 24 hour program will be on air from 17:00 GMT on 1 December through 11:00 GMT on 25 January 1982. Radio Kapiti plans to file for a fulltime warrant in 1982. Reports to PO Box 99, Paraparaumu.

SUMMERTIME STATIONS CONTINUED

Although not mentioned in the warrant itself, it is likely that Radio Kapiti will relay the nighttime program from Radio Windy 2XW 891 in Wellington. It did so in 1980/81.

1269 khz Radio New Zealand has a 5 week warrant to provide an entertainment and information programme to the Golden Bay area during the summer season. Power is 200 watts, transmitter located probably on top of Takaka Hill (cosited with TV translator) and a 24 hour program will be aired from 17:00 GMT on 14 December through 10:59 GMT on 23 January 1982. No local programs are mentioned in the warrant, but 2ZN has sent an announcer and a Rural News/Sports journalist to Takaka/Golden Bay for the broadcasts. Otherwise it is expected that the station will relay the programs of 2ZN Nelson 1341 and the community radio network. Reports to RNZ, PO Box 43, Nelson.

1404 khz Radio Waves will again provide an alternative program for the Bay of Islands resorts area. Power is 1kw, transmitter and studios are located in a Show Home on the Waitangi national Marae and a 24 hour program will be aired from 25 December for the peak vacation season. Considerable assistance from Radio Hauraki 1XA 1476 in Auckland, but there are no plans for a permanent station. Reports to Radio Waves, Waitangi, Bay of Islands.

1422 khz Canterbury Student Radio will provide an alternative summer program for metro Christchurch. Power is 100 watts, transmitter located on Ilam Campus of Canterbury University and a 24 hour program will be aired from 30 November. The first 3 weeks will center around finding vacation employment for students, and then switch to programs for children until end of the school vacation. As part of the Christchurch Holiday Activities Program Scheme, the station will program music, news, information, current affairs, drama and stories for the entertainment of children. Reports to Radio U, University of Canterbury, Private Bag, Christchurch.

Listener, Broadcasting Tribunal

The Broadcasting Tribunal advised on 9 December that an application for a shortterm warrant for Taupo had been withdrawn. The proposed 24 hour station would have been jointly operated by 2XS Palmerston North 828 and Ceefor Communications Limited who operated Radio Taupo over the 1980-81 vacation period.

David Ricquish

MAILBAG

Laurie Boyer, Invercargill is first up this month with a verie from BBC Oman 702.

Bryan Clark, Auckland has logs of KWIP 1460 and KZLA 1540 and veries in from 1XS 4ZF and CB114 Nacional 1140. Could be a good Caribbean season this time.

Chris Martin, Sydney has been warming up with logs of WQXR 1560 KZLA 2X0 Caribbean Beacon 1610 3RPH 1705 and USSR F.E. 720. QSLs in from WQXR 2X0 Caribbean Beacon 1610 (country 155) Damman 1440 3UL 4XF Kosice 1521 3MT JOIB and Sebaa Aïoun 1044. Plenty of shorttermers to listen for Chris.

Adrian Verry, Lower Hutt has veries from Fiji 774 and KHVH. Color TV can be a problem these days.

David Ricquish, Wellington is still sending out reports from October trip to Opunake but has QSLs in from 1XS 2YP 2ZH 2ZP 3YW 2UE 4WK 6TZ 8AL 8DR (QSL 700) 8GO and 8RC.

Lyall Mathieson, Morrinsville logged 1XS with veries in from 2LM 2LT 2ST 2TM 2UE 4IP 4WK 4TO (after 8 months) and WVUV 1120 (after 10 months).

Michael Williams, South Australia in his first report to these pages has 5 reports out and veries in from 4AK 3GL 6PM 3VM 4QL 6IX and KUAM. Nice to have you aboard...report often.

Jim Gorman, Papakura has logged and verified 1XS and 3XG.

Andrew Gardner, Wellington has been busy with exams but reports QSLs in from 2MW 4TO and 4WK.

Brian Webb, Upper Hutt has 1 report out to KKUA 690 and a verie from 2YP.

Robin Chambers, Opunake has reports to 3LO 2YP 1XS 4QR 1ZD and XEQ 940, with veries Switzerland 1566, KTWG 800 1ZD Bangladesh 693 1XS and 2YP. Milked all those cows yet Robin?!

Mike Smith, Opunake has logs of KIPA 6PH ICRT Taiwan 1550 and 1570 KKIS, and veries from KIPA KNOM Damman 1440 ...thanks for news, great to meet you.

Dene Lynneberg, Pukerua Bay logs 2XL 4YA, veries KMPB JOXF Jiangxi 729.Ta.

MAILBAG CONTINUED

Arthur Cushen, Invercargill has veries in from 1XS 2YP and JOHR 1287. Quiet month.

WNYG 1440 AM
GOSPEL
RADIO

PACIFIC NEWS CONTINUED

Australia : 2LF Young 1359 plans to move to 1350 before Christmas, with 5kw directional. New station 4HI Emerald was due on air 30 November on 1143 khz with 5kw directional and a relay to 4LG Longreach. Translators for 4VL approved for Cunnamulla and Gordonvale on 954 khz with 250 watts and due on air July 1982.

DX Post

The Golden West Network comprises 6NA 918, 6TZ 963 and 6CT 1134 which network programs from 10:00 GMT daily and all weekends.

Barry Grosser, PM 6TZ Radio via David Ricquish

Guam : TransWorld Radio outlet KTWG has now moved to 801 khz from 800 khz and is on air from 20:00-14:00 GMT daily. Power 10kw.

DX Post

KATB 570 has applied for call change to KGUK.
DX Post/NRC

BROADCAST TRAIL

- 595 Dominica W.I. s/on 10:00 after most unusual interval signal, comprehensive morning prayer. Good copy
- 620 KIPA Hilo 16:13 fair, noisy, EZL format
- 700 WLW Cincinnati with \$1000 giveaway offer on "Cincinnati radio" good 09:09
- 760 KGU Honolulu ex with jazz mx 09:05
- 940 XEQ Mexico City ID "La Q Mexicana" good at times 07:30-07:55 (RC)
- 1000 HJ.. Colombia, good 07:12 (RC)
- 1060 CFCN Calgary national nx fair 09:00
- 1090 KING Seattle "more music on Radio KING" v.good 08:22
- 1120 WVUV Pago Pago ex in EE/Samoan 1618 with "Good morning American Samoa"
- 1150 KFRZ Los Angeles sung slogan ID fair only 10:29
- 1160 KSL Salt Lake City good "1160 AM" ID, EZL format 08:23
- 1180 XE.. Mexican with "XEM" ID mixed Petrolera 08:40
- 1360 UnID on MST with Music for Your Life format 06:49

- 1360 UnID with horse race results 07:06-07:35 mixed above
- 1400 KRE Berkeley presumed regular jazz mx program 09:16
- 1410 CFUN Vancouver 0640 over UnID "the new 1410" both with pops
- 1460 KWTP Dallas OR on late during windstorm emergency 07:38 g.
- 1540 KZLA Los Angeles "KZLA brings you continuous country music on AM 15" 08:13 over/mixed
- 1560 KISA Honolulu disco music
- KPMC Bakersfield detailed ID 08:30 ".on clearchannel broadcast frequency 1560, 10, 000 watt KPMC"

Thanks to (RC) Robin Chambers DXing at Opunake, and Bryan Clark/Tony Marr DXing at Pauanui (14 november)

BEST OF THE MONTH

KNOM Nome, Alaska 780 khz 5kw, 153 points to Mike Smith.

THANK YOU! This has been a bumper month for news and items from members...thanks for the great support and keep those articles and news items coming in. If you have not had your name in these pages for some time, start 1982 off by telling us of your summer DX. If support for the broadcast pages continues at this level, I will be pleased to move them back to the front of the magazine!

DXPEDITION TO RAROTONGA (as advertised on Radio Pacific). If you're interested in radio DXing, SWlistening, amateur radio or satellite communication, here's an idea that will appeal to you. A DXcursion to Rarotonga in the Cook Islands! 9 days in these tropical islands as guests of radio Cook Islands, R.Tkurangi, Cable & Wireless, ATS-1 satellite stations and dozens of hams. Leaves Auckland 25 April 82, returns 3 May staying at Edgewater Motel. Time for a CQ Bar-b-q, round the island tour, and all the time in the world to enjoy the relaxing tropical atmosphere. Send or phone for a brochure from the DALGETY TRAVEL OFFICE near you or write to PO Box 3160 Wellington.
DXPEDITION TO RAROTONGA

RECENT DEVELOPMENTS IN KOREAN BROADCASTING

Adapted by Bryan Clark from information supplied by Douglas Doull 20

On 1 December 1980, a major turning point in the 50 year history of Korean broadcasting took place, with the amalgamation of 5 domestic commercial networks with South Korea's publicly owned KBS (Korean Broadcasting System). The organisations absorbed into KBS were TBC, DBS (HLKJ 792kHz), Chonil Broadcasting Station (HLAA 1224kHz), Sohae Broadcasting Station (HLAS 675kHz) and the Korea FM Station.

According to the the KBS 1981 Handbook, this amalgamation virtually put an end to private enterprise broadcasting in South Korea, although reference to the WRTVH 1980 and 1981 shows that the Korean MBC and CBS networks were dominant in the commercial scene - their current status is not known. In the ensuing reorganisation of KBS, two new radio networks (channels 3 and 4) have been introduced, a second FM channel has commenced broadcasting in the Seoul area, and 2 new TV channels established, one on UHF and exclusively devoted to educational programming.

KBS had it's beginnings as a public broadcasting organisation back in 1926, but broadcasting in Korea proper began the following year when a 1kw MW transmitter was put into operation. Today KBS operates 21 local stations besides the key stations in Seoul, the South Korean capital. 87.5% of the country is covered through 75 transmitters spread across the country, using 94 MW channels. A number of additional relay stations, ranging in power from 1kw to 10kw, are under construction to improve areas of poor reception. The KBS FM service commenced in January 1979, and currently uses 26 frequencies. On shortwave, 6 transmitters are operated by Radio Korea, in 10 languages for 102 hours a day. KBS TV commenced in 1961 with a single 2kw transmitter. Today there are 233 transmitting stations or relays, providing 75.6% coverage of South Korea. KBS colour TV began in late 1980, whilst the UHF educational channel was introduced in early 1981.

8 radio networks are now operated by KBS:

- a) KBS RADIO 1 - principal nationwide network with a general and comprehensive programme format: 66% of a cultural nature, 21% news. On air 20 hours daily; key station 711kHz.
- b) KBS RADIO 2 - exclusively nationwide educational programmes, 18 hours a day, through 13 FM transmitters. "KBS Educational Radio" programmes are 2% pre-school, 17% primary, 26% secondary, 55% adult.
- c) KBS RADIO 3 - nationwide entertainment programme, 20 hours a day - 44% entertainment, 45% cultural, the balance being news. Key frequency 639kHz.
- d) KBS RADIO 4 - general information programmes on social & economic affairs, 20 hours daily, through key frequency 792kHz. Format is 44% news, 38% cultural, the balance entertainment.
- e) KBS FM-1 - 19 hours a day music programme of classical music (94% of time), traditional Korean court, religious and secular music.
- f) KBS FM-2 - pop music, folk songs, and light music (94% of the 19 hour daily schedule).
- g) Social Education Broadcasting Channel.
- h) Overseas Broadcasting Department - KBS initiated it's first foreign language service in 1953, with 15 mins English programming daily on MW for the foreign community in Korea, broadcasting under the title of Voice of Free Korea. Overseas broadcasting began on 1 December 1955 with MW transmissions to Japan. In September 1957, VOFK began broadcasting for 30 minutes a day to North America and Hawaii. With KBS's reorganisation as a public corporation in March 1973, the service was renamed Radio Korea, with the aim of promoting true understanding of Korea overseas, and also providing entertainment/information for Korean people living abroad.

KBS Radio Korea is best heard in NZ at 1000 GMT on 9570KHz. For the MW DXer, the Japanese Service uses 1449kHz at 1500-1600 GMT and 1170kHz at 1100-1300, also 891kHz at 1500. 1170KHz also carries English at 1300 and Chinese at 1330 GMT.

NIGERIAN RADIO STATION BURNED BY RIOTERS : Recent rioting in the northern Nigerian city of Kano has put Kano Radio (729 khz and 100kw, 1376 khz and 1kw) off the air for up to 6 months. Angry crowds, who attacked several public buildings, set fire to the radio station which was totally destroyed along with all its newly purchased equipment. The 200 staff members have been sent on leave and it is estimated that it will cost an initial US\$40 million to get Radio Kano back on the air. Plans to use an alternative station in the suburb of Jigana have been turned down on security grounds in the meantime. World Broadcast News/Dene Lynneberg

CARIBBEAN NEWS

Antigua ZDK operating on 1100 khz with a power of 10kw from St Johns was noted on later than usual in November, shortly after Antigua was granted final independence from the United Kingdom. Noted past 0300 GMT (Foxworth NRC)

Barbados New station Voice of Barbados on 790 khz with 10kw heard in the United States since October. ID given as "VOB", carries VOA EE news at 0300 GMT. S/off is at 0323 GMT. (Foxworth NRC)

Bermuda New station operated by The St George's Broadcasting Co Ltd, PO Box 1450, Hamilton noted in the United States since early November. Uses 1450 khz with 1kw, 24 hour NSP with ID as "Radio 15" (Cooper NRC, Sveriges radioklubb)

Jamaica perhaps the best chance in New Zealand for this elusive island is the JBC outlet at Montego Bay on 700 khz with 5kw. This has been noted in the United States since October at 0510-0515 GMT with reggae music over WLW Cincinnati. (DeLorenzo NRC)

St Vincent Radio St Vincent in Kingstown operating on 705 khz with 10kw has been heard with Open Carrier in the United States at 0548 GMT in mid October. S/off 0300 GMT, s/on 1000 GMT (Connelly NRC)

NORTH TO ALASKA 560 KVOK Kodiak runs ABC Information News; 870 new station is KSKO McGrath, 99627 heard since early September with 5/1kw; 900 new call is KCBF (ex KFRB) with ID as "the fresh air sound of Alaska KCBF" with Beautiful Music/MOR format, CBS news and sounds automated programming.

Vernon NRC

DX SPECIAL FROM COLORADO : KADE Boulder CO, will air a special DX test from 0700-0800 GMT 28 December using 5kw non-directional on 1190 khz. Test will consist of 1000 hz tones and music with plenty of IDs. Prepaid calls accepted at (303) 444 5600. Reports to Bob Greenlee, KADE Radio, 4840 Riverbend Road, Boulder, CO. 80301. Arranged by NRC

RADIO MARTI BEAMS TO CUBA

The propaganda war of the air waves between the United States and Cuba has been increasing of late, especially with plans to install 500kw MW relays of Radio Moscow in Cuba. President Reagan has ordered a new station to be built in the United States, with anticommunist programs beamed to Cuba. A private non-profit organisation similar to Radio Liberty and Radio Free Europe has been set up. It is to be called Radio Marti after a Cuban revolutionary hero and will transmit from a site in Southern Florida. It is expected to use 1040 khz and is due on air in January 1982. The power is likely to be 50kw. Once Radio Marti is on air, American authorities are likely to begin a crackdown on the many clandestine anti-Castro stations known to be operating from Miami and other areas of southern Florida.

Musco NRC and other sources

HOUSTON-TEXAS FORMAT CHANGES

- 610 KILT now Country/Western mx, UPI Nx on the hour
- 740 KTRH News/talk (not Larry King Network), CBS Nx hourly, some Mutual also
- 950 KPRC news/talk with phone-in shows, NBC Nx hourly
- 1320 KXYZ now Christian format of "gospel rock" and ABC network dropped

Schlesinger NRC

CANADIAN CHANGES

- 550 CFJC Kamloops BC, CP 25kw Day
 - 680 CFTR Hamilton ON, 50kw Nights
 - 730 CKGB Timmins ON, 25kw D/N ex 680
 - 910 CJDV Drumheller, ALTA. CP 50kw Day/Night
 - 1050 CFGP Grande Prairie, ALTA. CP now dropped all CBC programs
 - 1350 CKEG Nanaimo BC, 24hr NSP
 - 1480 CKER Edmonton ALTA on air, 24 hr NSP ethnic programs
 - 1500 CKAY Duncan BC now 10kw U3
- Oldfield NRC

UNITED STATES CHANGES

690 KZKZ Flagstaff, AZ ex KEOS
KRMX Pueblo, CO ex KAPI
1010 WCFB Miami, FL ex WING
1140 KYXS Mineral Springs, TX
ex KORC
1380 KAUL North Little Rock, ARK
ex KDXE

940 KIOA Des Moines, IA now
50/5kw DA2
1190 WANN Annapolis, MD now 50kw
Daytime
1200 WFAI Fayetteville, NC now
5/.5kw ex 1230
1540 WYNC Yanceyville, NC now
50kw Daytime

NBC

NETWORKING AND AUTOMATED PROGRAMS

Major changes have been taking place with American radio, partly to reflect increased costs and also moves towards modern technology. Many stations now carry automated programs, or network links and even satellite programs so that it has become more difficult to hear them with local programming. This is especially so at nighttime when the audiences drop and it is often just not viable to carry own programs. As most of our reception period coincides with nighttime in the United States, more and more of the signals we hear will in fact be networked or automated. However, legal ID has to be given regularly, so it will still be possible to get a positive fix on the station you are tuned to.

One program that is heard over many of the stations logged in New Zealand is the Larry King Show. To assist DXers over the coming months when North American DX is at its peak, here is a list of those stations carrying the network west of the Mississippi River with those marked * the most well heard here. Credit to NRC

550 KSD* KCRS 560 KSFO* 570 KVI 580 KMJ*
WIBW* 590 KTHO KLBJ 600 KOGO* 620 KTAR*
KMNS 630 KOH 650 KYAK* 690 KZKZ 710 KMPC*
KGNC* 720 KDWN* 790 KCEE KGMI 850 KOA*
KGOE 920 KITH 930 KIUP 970 KIAK KBEE 990
KKIS* 1010 KLRA* KCMJ 1120 KPNW* 1150
KCKY 1170 KPUG 1180 KOPI* 1190 KEZ* 1200

WOAI 1230 KSPO 1240 KAKZ KFOR KEVA 1250 KTMS
KCPI KBRF 1260 KGBX KROX 1270 KCKK* 1280 KKAL
KWMS 1300 KVOR KPPL 1330 KGAK KFH* 1340 KAIN
KVBR 1350 KRRT 1380 KTSN 1390 KKOA KSLM KBLQ
1400 KNOR 1430 KELI*1440 KVON*1460 KMWX*1480
KGCX 1490 KOTN KGUD KLOG 1500 KXRZ* KSTP*
1520 KACY* 1530 KFBK*

STATION NEWS Malta : 999khz remains sole
government outlet with
power of 5kw. Outlet on 756 khz closed down by
official order and frequencies of 1341 khz and
1485 khz used for test transmissions only
DSWCI

Belgium : BRT will commence its EE External
Services from 1 January 1982 over a
new 600kw transmitter on 1512 khz. SCDX

Portugal : Radio Renascenca now on air from a
transmitter at Muge, operating on
594 khz with a power of 100 kw. SCDX

Maldives : Voice of the Maldives has been test-
ing a new transmitter on 1458 khz
with EE and Hindi pop music with reception in
Sri Lanka reported. Tests heard to s/off 1800
GMT and also 0400-0600 and 1000-1130 GMT. The
outlet on 1485 khz has now moved to 1487 khz.
SCDX

JOXF 1530 AFTER 5 YEARS

Dene Lynneberg of Pukerua Bay reports that JOXF in Tochigi has verified by EE letter and two QSL cards after a f/up to a 1976 report. At the time of reception they were on late all night testing their new 5kw transmitter for strength and interference to other stations.

Friendly letter from producer at JOXF who was able to accurately confirm the report details even to the extent of speaking to the person on duty on the night of reception. This person recalled playing all the Billy Vaughn Orchestra tracks heard. A much sort after station that brings Dene's Japanese total of QSLs to close on 60.

Thanks for this item Dene, it will no doubt bring hope to many DXers who still secretly hope that the exotic catch of years ago just might appear in the mailbox one of those days!



california dreamin'

This time of the year in New Zealand, radio station playlists become full of Beachboys music and other surf, sun and girls music from the Golden State of California. You can fly out of Auckland to Los Angeles daily, but if you want to, you can let California come to you in the comfort of your own home or DX shack. Younger members wanting to listen to the USA on mediumwave over the summer months, might wish to try for some of the regular Californian signals that reach down deep into the South Pacific every night.

California has literally hundreds of stations, serving small towns, large metro areas and even suburbs of some cities such as Los Angeles and the San Francisco Bay region. Starting with the city of the Angels, Los Angeles, the easiest station to hear is KNX 1070 khz "your 50 000 watt newsvoice of Southern California". This is CBS anchor station for the west and has an All-News format. It's a good verifier, having received hundreds of reports from new Zealand over the years and broadcasts from a beautiful complex in Sunset Boulevard. Just down the dial at 1020 khz, broadcasting from a 50kw transmitter located in the City of Industry is KTMQ. This station now programs Spanish for the large Chicano population of Los Angeles and is often heard well around the midnight hour.

At the other end of the dial is KZLA on 1540 khz also using 50kw and now with a new format of Country/Western music which has become increasingly popular in the western states after movies such as "Urban Cowboy". Just a little further up the dial at 1580 khz is KDAY. Although licenced to the beachside community of Santa Monica, this 50kw station has its studios several miles away in downtown Los Angeles. The format is usually rock music aimed at the black market and it can be heard through the evening into the early hours of the morning.

Travelling down the Pacific Coast Highway for 150 miles to just north of the Mexican border and now to the beautiful city of San Diego. On 1130 khz, KSDO is another All-News format station using a 50kw transmitter and providing regular reception through the evening hours. Down at the bottom end of the dial, on 600 khz is KOGO using a power of 5kw. The station is owned by Time Magazine and now carries the nationwide Larry King Show talkback program during reception through the evening and early morning hours.

Interstate 5 north out of Los Angeles and into the San Joaquin valley, the most fertile farmland in the United States thanks to massive water irrigation schemes and first stop is Bakersfield, Cowboy Capital of the West where powerful 10kw KPMC dominates clearchannel 1560 khz. Appropriately enough, the format is Country and Western music and it can be heard later in the evening and through to about 1400 GMT. Further up the valley to the city of Fresno where regular visitor on our dials is KFRE with a powerful 50kw transmitter on 940 khz. ID is "Kay-Free" with MOR music format and now housed in modern facilities on the outskirts of the city. State Capitol Sacramento is where another regular visitor is located. KFBK on 1530 khz must have received hundreds of reception reports from here in new Zealand over the years, and this 50kw station owned by McClatchy newspapers who operate several stations in the area now carries the Larry King Show network program during our evening reception period.

Finally to San Francisco and the Bay area, where one of the stronger signals is that of KNER which programs MOR music on 680 khz with a 50kw transmitter and often heard in the mid and late evening and early morning hours. Around midnight, listen on 1100 khz for KFAX, another 50kw station which is heard very clearly at this time often with religious and educational programs. Down at the other end of the dial on the regional frequency of 610 khz, can be heard KFRG. This 5kw station programs rock music popular in the bay Area and is heard well around our sunset and from midnight into the early morning hours.

FROM THE BRANCHES

AUCKLAND There were 15 members at the November meeting and 'Mystery Guest' was the Chief Editor of the 'DX Times', David Ricquish. Members discussed new receivers and the move by the Auckland Regional Authority to reduce their commission on sales at Auckland International Airport 'dutyfree' concessions. The Chief Editor spoke about recent changes in the 'Times' and outline some plans for the future which centre around continued good support from members. Auckland Branch also discussed the support they could give to Radio New Pacific's "Two-way Radio Show" and so it is likely that increased Branch support will be forthcoming in the New Year.
NEXT MEETING Details from Tom Rushbrooke, phone 279 8348 evenings 5-6pm.

CANTERBURY No notes received. **Contact** Mike Smith, phone 499 302 evenings.

NORTH OTAGO No notes received. **Contact** Doug Walker, 7 Meon Street, Oamaru.

SOUTHLAND BRANCH October meeting held at S.Greenyer's saw 18 members present. Discussion covered League AGM, DX Times, and 'DX Chat'. November meeting held at E.McIntosh's saw 15 members, including two new members. Discussion included competitions and a Loop Aerial demonstration. Competitions: (October) **BoM BCB B.Murray/P.Bellett KSSK 590 5kW; SW-Over 9 R.Winter BBC-UK 25650; SW-Under 9 A.Cushen JOZK 3970kHz 600 W! (November) BCB B.Murray WVUV 1120 10kW; Rest of World L.Robinson 3RPH 1705 500W; SW-Over 9 R.Winter Finland 21465 kHz 250kW; SW-Under 9 A.Cushen - TWR Swaziland 5950 kHz 25kW. NEXT MEETING** and Christmas Party at Paul Aronsen's, Girvan St, Wallacetown on 12 December. **Contact** Irene Simpson, phone 57 431.

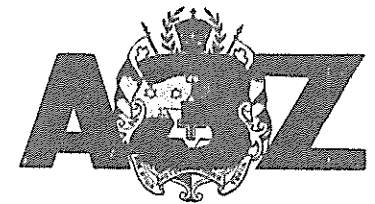
WELLINGTON BRANCH Contrary to popular belief, Wellington is not dead!!! 7 members attended the November meeting at Ralph Sutton's home including new member Wayne Candy. Andrew Gardner demonstrated his MW active loop although noise and interference on MW proved too much at the venue. **NEXT MEETING:** 8pm on January 29 at Andrew Gardner's, 5 Bharat Terrace, Broadmeadows, phone 783 068. Bring your radios for a listening session with loops and 100-metre longwire (Winds Willing!). Congratulations to Andrew on his 3rd grade Ham licence - ZL2UEE!

QUESTIONNAIRES

An excellent response with several hundred survey forms returned. So that our evaluation of these can be completed as quickly and accurately as possible, please check that you have returned yours. If not, please MAIL IT TODAY to PO Box 1313 Invercargill.

GOVERNMENT GRANT

The Ministry of Recreation and Sport has made a grant of \$750 to assist with the production costs of the 'DX Times'. The Minister of Recreation and Sport approved the grant in November under the National Projects Scheme. This will be of considerable assistance during the coming year.

TONGA BROADCASTING COMMISSION**NUKU'ALOFA**

PO Box 2956 Wellington for all your contributions to the 'Times', editorial advertising, and distribution problems.
PO Box 1313 Invercargill for payment of subscriptions, membership, and Administration Committee.
PO Box 3011 Auckland for Competition Awards, Ladder stickers.