

N.Z. RADIO



ISSN

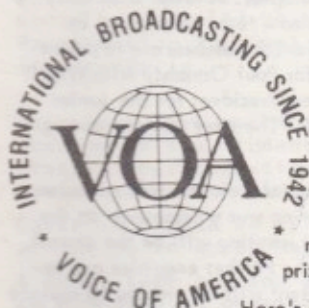
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# NEW ZEALAND DX TIMES

Registered at P.O.H.Q. Wellington as a magazine

VOLUME 31 No. 7

MARCH 1979



## SPECIAL VOA COMPETITION !

In conjunction with the United States International Communications Agency & the American Embassy in Wellington, a special competition has been arranged by the DX Times for NZ resident members of the League.

All you have to do is state, in no more than 30 words, why you listen to the Voice of America. It's as simple as that! First prize will be a VOA Bronze medallion, a VOA Jacket Patch, VOA T-Shirt and VOA Ballpoint Pen. Second prize will be a Jacket Patch, T-shirt and Pen; third prize a T-shirt and Pen.

Here's a chance for every member, whether an active contributor or not, to participate!

Post your entry, plus your name, address and t-shirt size (small, medium or large) to: VOA Competition, NZ DX Times, P.O. Box 2956, Wellington, to arrive no later than 1 May 1979.

Only one entry per member please. Entries will be judged by US Embassy staff and the Chief Editor of the DX Times - their decisions will be final and no correspondence will be entered into. All entries become the property of the USICA. Winners will be advised in writing and full details announced in the June magazine.

So, get those thinking caps on, and get your entry underway right now!

**TIMES CHANGES** FROM THE OUTGOING EDITOR-IN-CHIEF: After 6½ years and 76 magazines from the Wellington Magcom, it's time for further changes in the voluntary team that produces the DX Times each month for a membership currently standing at 600, more than double the circulation when we took on the task. Contributions will continue to be received at Box 2956 in Wellington, and from there will be remailed on the monthly closing dates to the various section editors. Broadcast Band pages will continue to be prepared by "el personal necesario" in Invercargill, and the SW Mailbag/Bandwatch by Auckland members. Arthur Cushen's longrunning SW Receive also continues. Wellington members John Mainland (Sign Off), Dene Lynneberg (SW QSL) and Ray Babbage (Ladders), will be joined by Cecil Symmes (Feature Articles), Philip Hamlin (Continents Listings) and Paul Rawdon (TV/FM DX).

continued on page 8.

### NEW ZEALAND RADIO DX LEAGUE

ADMINISTRATIVE OFFICE: P.O.Box 1313, Invercargill. All queries re membership, policy, subscriptions and competition awards should be addressed here.

EDITORIAL OFFICE: P.O. Box 2956, Wellington. Only enquiries relating to content and distribution of the NZ DX Times should be referred to Wellington. Closing date for all contributions is 12 noon, 1st Monday each month.

STATIONERY OFFICE: P.O.Box 450, Oamaru.

LEAGUE ARCHIVES: c/- Paul Ramsay, 67 Wharfe Street, Oamaru. Any items concerning early radio will be gratefully accepted.

ANNUAL SUBSCRIPTION: NZ\$ 7.00 Joining fee of \$1 for new members only. Overseas rates on request.

CLOSING DATE FOR NEXT MONTH - MONDAY 2 APRIL AT 12 NOON. YOUR CONTRIBUTIONS PLEASE TO P.O. BOX 2956, WELLINGTON - DON'T FORGET LADDER ENTRIES & BEST OF THE MONTH ENTRIES.

## FROM THE BRANCHES

**SOUTHLAND** The February meeting held at Frank Glens at Myross Bush, with 9 present and 4 apologies. The meeting heard about current reception, looked at possibilities of a DXpedition to Stewart Island, heard a taped interview by Arthur Cushen with former League member Alister Perkins, now working in South Asia for FEBC & TWR, heard Charlie Chester's latest receiver - the DR28, and heard details of interesting points from 56 verifications tabled by Ray Crawford. The March meeting will be held at Arthur Cushen's on 27 March. Best of Month Competitions: BCB Eric McIntosh WXLE 1386 and Ray Crawford Dominica 595. SW to Ray with Finland 21495 & La Voz del Napo 3280 1kw.

**NORTH OTAGO** The February meeting at the Listening Post had 6 present and 3 apologies. A letter from Barry Williams re the Les Cufflin QSL collection was discussed, and the Archive section is now to be taken over by Paul Ramsay. Richard Kitto replaces Paul as editor of the "Dial News". Junior and Senior members are to mount a DX display for the Oamaru Festival on 2-3 March. Senior BOM's were in the bag for Paul Ormandy with WUNI Mobile, KHJ Los Angeles, SODRE Uruguay and Radio Manus PNG. John Budge is new President for the Junior Section and Chris Kitto is Secretary. Chris took the Junior BOM with KMOX St Louis. The next Junior meeting was set for 1 March, Senior & Junior meeting for 15 March.

**WELLINGTON** 9 members attended the February meeting at Bob Connor's, and a special welcome was extended to Philip Hamlin of Tauranga, now studying in Wellington. Main business of the meeting was a discussion on the future activities of the branch, in view of flagging support in recent times. The next meeting will be the annual pilgrimage to the BCNZ Receiving Station at Quartz Hill, at 8pm on Friday 30 March. Further enquiries and requests for transport assistance to Chris Mackerell, phone 861-882. A new vice-president will be elected to replace Bruce Lister, shortly moving to Christchurch.

**WAIKATO-BAY OF PLENTY** A meeting is planned for 10 March in Rotorua to reform the branch. Venue is the NZART Clubrooms at 2.00pm. (No other info to hand, but we look forward to hearing of a successful meet. Ed)

**AUCKLAND** 19 members attended the February meeting on Sunday 25th. Bryan Marsh gave a short talk on the visit of Tom Meyer to Auckland late last year. It was decided that an Auckland Branch DX Newsletter be given a 6 month trial run. Competition Results - MW John Allchin KBBX 1600 and SW Jim Gorman/Arthur DeMaine RSA 21535, and Bill Huddleston Ghana 3350. After the meeting and the usual cup of tea there was a collection of receivers on display - Sony ICF6800W, Yaesu FRG7000 and two Grundigs. The next meeting will be held on Sunday 25 March at 2pm at the NZART Clubrooms.

**Editor's Note:** This section will in future be prepared in Invercargill, and branch secretaries are requested to ensure their notes reach Box 2956, Wellington by the closing date each month.

### BOX 2956

**SONY COMMUNICATIONS RECEIVERS** Further to our note on page 7 last month, Tricity House Ltd, who have been appointed distributors, advise that there have been delays in establishing duty/tax on these new receivers, but hope to have details for League members shortly.

**LATENESS OF MAGAZINE DELIVERY** It seems the gremlins are at work again, in slowing delivery of the DX Times to members - Christchurch members got their February issue on 28/2! As has been the case with all past despatches from Wellington, the Times goes into the mail on the Thursday of the week following the Monday closing date, ie 15/2.

**LEAGUE STATIONERY** Stationery Secretary Ted Sutton advises that he is out of car stickers and can not accept orders for this item until further notice.

**RADIO MOSCOW RELAY STATION SITES** In the centre pages of this month's magazine is a map of Russia showing location of the various SSR's and relay sites of Radio Moscow, as featured on their QSL cards. Of the 67 sites listed, 34 have been verified by League members in recent times. It should be appreciated that these sites do not use the same frequencies all the time, so make sure you ask Radio Moscow to include the site on your QSL. Thanks to Cecil (and Mrs) Symmes for a fine effort.

### BROADCAST DX LATECOMERS

(Because this page will be prepared in Invercargill in future, this is the last time we'll be able to squeeze in late arriving contributions, so make sure closing dates observed.)

**JIM BENZONI** Hamilton says that according to Radio Waikato, Radio Sam QSLs will be issued shortly.

**PETER JONES** Hamilton returns to DX with reports to 1XI, XA, ZU, XC Contact, 3XG, 2YB, 1XH, Fiji 711.

QSLs 1XI, 3XG & 1XA. Welcome!

**JACK SEARLE** Haumoana/East Cape reports 1XB & QSLs KATZ and RM Vladivostok 1250. Now we know where the MW DX is going to!

**STUART FORSYTH** Christchurch, a lean month with KLIV, XEMO and Radio U verified. Congrats on first Mexican. Who signed Radio U? hi.

# BROADCAST DX

por el personal necesario 3

During the last month it was announced that a warrant will be sought for a mini station to operate in Gore. No frequency was mentioned but it is planned to have the station operate with its own program from 6am to 1030am when it will relay 4ZA in Invercargill until 2pm. From 2 the station will relay the YC program and this will be taken earlier when the YC's carry Sports Roundup.

Plans have also been made to open a mini-station, Radio Horowhenua at Levin. Initially there will be 6 hours of local programming, with the balance being relays of 2ZA or 2ZM. B.Clark.

The announcement during the month that the Community Network and ZM stations would be operated 24 hours by Radio New Zealand if a warrant is given by the Broadcasting Tribunal, will certainly make broadcast DX even more difficult than it already is.

## SHORT TERM WARRANT NEWS

One short term warrant that missed our deadline last month was Radio Active, located at the Student Union Building, Victoria University of Wellington. The station operated with 100 watts on 1467 kHz from 18 February to 11 March, with transmissions to midnight each day. B.Clark.

Christchurch is to get another short term station for the Arts Festival and this should be in early May. D.Riquish.

A short term station is to be set up in Gore for the Golden Guitar awards and it is proposed to operate for 10 days. No details to hand but they will be printed as soon as they become available.

A reminder that the Levin station will be on from 17 March to 8 April from 5am til midnight daily if RNZ get a warrant. (See page 6 for additional STOP PRESS information)

The reception of some of the short term stations is fairly difficult here in the South. It is the usual problem of listening in town, TVI and power noises.

From the mail bag this month;

ROBIN CHAMBERS, Opanake, reports improved conditions on odd nights and has reports out to KNUI, 2ST, 1XB, Port Moresby 585, WWA and 1XH 603. Veries in from 200 and KNUI. Ta.

JIM BENZONI, Hamilton, has reported Sam and verified KLIV after a big delay.

PAUL ORMANDY, Oamaru, has logs of 3XB on 1503, KHVH and KKUA. QSL's in from 3XB, KGER, KLIV, KHJ, KPMC, KEYS, WBBM. Nice.

ARTHUR CUSHEN, Invercargill, has reports out to Vila 1422, 1XB 1404, 1XH 603, 2XA 1467 and 4KQ. Veries are in from 2YB 783, 2WL, 4TO and HLDA.

JOHN ALLCHIN, Auckland, reports he has heard 2ZB, 2WS, Vila 1422 and Port Moresby on 585. Veries in from WAOK 1380 with a voice verie via tape and a pen, KQWB, KCCN, KKUA, KLAC, WWL, CHUB, KMOX, KRYS, WOC first NZ report for years, KFXD 580 NZ 1st and two pens, WUNI, WHAM, KBBX, WHAS for State 90. Fine list.

PAUL RAMSAY, Oamaru, has logs of 4XD, 1XH and VL2NI. Veries are in from 4XD and VL2NI.

DAVID RIQUISH, Christchurch, has no logs this time but 3ZB, 3ZM, KSRO and CJVB back.

RAY CRAWFORD, Invercargill has reports out to 1ZM, 1XX, 1XW, 1XI, 1XH, 2ZM, 2KY, 2SM 2GB, 2UW, 2NC, 2XW, 200, 2BS, 2PK, 2JJ, 2WN, 2LT 2FC, 2LG, 2GL, 2NR, 2BL, 2KP, 2BY, 2NU, 2CR, 2CY 2ST, 2NB, 2YB, 2RG, 2MW, 3DB, 3CV, 3ZM, 3YA, 3XA 3ZB, 3ZC, 3NE, 3AK, 3XY, 3UZ, 3BO, 4MK, 4SB, 4XO 4QD, 4ZB, 4ZA, 4SO, 4YW, 4YQ, 4IP, 5MV, 5MG, 5LN 5RM, 5DN, 7HO, 7EX, 7ZL, 7LA and VOA Thailand Veries in from 1XI, 2PK, 2UE, 2XW, 2TR, 2CO 200, 2WL 1320, 2WEB 576, 2BE Moruya 756, 3XA, 3NE, 4XO, 4MB, 4GR, 4WK, 4BC, 4XD, 4ZR, 4ZA 4QA, 4HU 1485, 7ZL, 7HO, Norfolk 1566, A3Z WXLE 1386, Vila 1420, WSOZ 1100, 1098, JOSE, JOIR, JOBR, KHVH, KLEI, KPUA, KZOO, KIPA CFAX, KFYV, KFMB, KPLS, KTRB, KIIS, KTMS, KCKC WBBM, WBBR, KDLG, KPAR, KGMS, KCBS, WREN, KPOD and KTCO. Whew.

BRYAN CLARK, Wellington, has reported 1XH 603, Radio U 1503, Radio B 1404, Contact 1440, Active 1467. Lone verie is that lovely card from Radio B. Hi.

KEITH ROBINSON, Kapuka, has reported 1ZD, 2GN, 1XH, 1ZM, 2ZC, 1XB, 5DN, 2ZM 2KA and verified 2BE Moruya 750, 2ZW, 1ZO, 2ZA, 3MP, 3UZ, 2ZN, 2ZG, 4YA, 7ZL, 2ZK, Vila 1422, 2ZD, 2ZP, and 3XY.

ALEX WELLNER, Bondi, NSW, has reports to KUAM 610, DXCC 828 and 3ZA. No QSL's to hand.

IAN CATERMOLE, Blenheim, has reported to 1ZB, 2YW, 2YM, 2ZA, 2ZG, 3NE, 3YR and has veries in from 2YW, 2YM, 3XG, 3YR, 3XY, 4QB, JOAR and JOUB.

HANK WILKINSON, California, has reports out to Tahiti 740, CMAF 882, OEB4N 880, 2BL, 4QA, 4QO, 4ZA, 2GB, 1XA, 2ZB, 4IP, 4ZB and has replies in from 4BH, 2NU, 2BY 4QL, South Korea 880 and 890, 2BL, 4QA, 4QO/QB, 2ZB. Can't help out with you queries Hank, nobody seems to be getting out of bed to listen to Asians.

ERIC McINTOSH, Invercargill, has logs of 2WS, 2CR, 3XY, 3UL, 4QD, 4GR, 4KQ, 4QR, 7ZL, 7HO, 1XL, 1XH, 1XI, 1XC, 1XB, 2AP, Cant, Uni 1503, Vila 1422. Veries in from 1XI, 2WL 1320, 2BE Moruya 750, 3XY, 3UL, 4QD, 4KQ, 7HO, KLIV, WXLE 1386, Vila.

STEVEN GREENYER, Invercargill, has reports to 1XH, 2YB and Cant. Uni 1503. No QSL's.

## BEST OF THE MONTH

OPEN: John Allchin with KBBX, Centerville, Utah. 1600 kHz. 500 watts. 136 points.

### CANTON ISLAND TO CLOSE

In verification letters received from WXLE on 1386, they say that due to a proposed phase down of military activity on Canton Island, they will probably cease broadcasting in June or July of this year.

The station is located on Canton Island in the Phoenix Group, which has a population of 37. WXLE is run on a voluntary basis, usually 24 hours a day. Programming consists entirely of taped music with ID's at irregular intervals.

TAIWAN: Official word from the United States military command on Taiwan indicates that all US forces personnel and supporting activities will be removed from Taiwan within the next few months, including the American Forces Taiwan Network outlets on 1550 and 1570. According to the Technical Director of the AFNT, the close down will be in March or April. Mike Hardester and Sei-ichi Hasegawa in SCDXers.

SOUTH AFRICA: A licence is to be issued next month for the establishment of a new commercial station in the homeland of Bophuthatswana. The new station will be on the air with test broadcasts by the end of the year. It will operate 24 hours a day on MW, and possibly FM. SCDXers

SAUDI ARABIA: A new station called, the Voice of Islam, will begin operation in June with programs in Arabic, English, French, Russian, Spanish, Turkish and Urdu. It is thought the new station will operate initially on MW, possibly on 549,612, 900 and 1521. SCDXers.

AUSTRALIA: 2WEB Bourke, 576kHz, is operated from studios at the Bourke High School by Western Educational Broadcasters. The station has a 2kW transmitter and uses a 300 foot top loaded mast. There are two full time staff and numerous volunteers among the students to run the station. Tests started in September 1978 and full time broadcasts began on 580kHz on November 13, 1978. Operates daylight hours only.

# 4 BROADCAST TRAIL

## EVENING

- 580 KMJ good to s/off 0856 Mon 12/2  
WIBW good after KMJ
- 585 Port Moresby EP NX 0902-0912
- 600 KOGO Good but mixed CJOR 0900
- 670 WMAQ good with ID and wx 0903
- 690 KKUA pops and freq ID's 1110 PO
- 700 WLW good 0910
- 780 WBEM strong 0912
- 854 R. Nac. Peru good 0745 PO
- 990 KHVH mixed KKIS 1125 PO
- 1070 R. Santa Fe good 0750 21/2
- 1170 WVVA good over KVOO & KOHO  
0803-0815 21/2
- 1180 WHAM Nx and Wx 0805 good 12/2  
Unid SS with pips every minute  
Good at times 0805-0835 Reloj  
in Cuba ? 12/2
- 1180 Unid SS with commercial pgm 0740
- 1230 Calidad 0810 PO /Who? PO
- 1430 KELI Ex at 0750 16/2
- 1490 Punto Cinco good SS pops 0740 PO
- 1600 KCRG Nx & Wx 0850-0900

## MORNING

- 610 KUAM good pops and commercials  
1620-1650 AW
- 701 Dushanbe under 2BL Carrier 1750/
- 828 DXCC pop music 1517 AW/AW
- 860 KK good 1745
- 909 CC good 1710
- 990 CC ex 1800
- 1089 CC good mixed with KBS ? 1800
- 1287 JOHR good 1800 RCr
- 1359 ?? Eastener on W bev. 1905
- 1404 JOQL fair 1800 RCr
- 1584 7SH good 1800 RCr
- 1593 Langenburg good 1800 RCr

Tnx to P.Ormandy. A.Wellner. R.Crawford  
No name is from Robin Chambers.

The recent change from 10kHz to 9kHz separation in virtually all parts of the world except the Western Hemisphere reminds old-timers of the day in 1941 when most dial positions in the United States, Canada and Mexico were changed.

Like the recent 9kHz change on November 23rd, the 1941 change took place as of one specific hour, and although stations had rested in advance of that time, they had to remain on their old frequency until that magic hour.

NARBA signed to correct mess

The purpose of the 1941 change was to establish NARBA as the North American Broadcast Agreement was known. NARBA had been signed to try to bring order out of a mishmash of frequency jumping that was almost ruining the secondary coverage of many stations.

Most of the changes involved stations simply moving up the dial one, two, three or four positions, so that a group of clear channels was created for Mexico, Canada, the United States and the Bahama Islands. However, a number of stations were switched to totally new places on the dial as the old channels were abolished.

Nations Assigned 1A Clear Channels

Private Canadian stations were forced off the more favourable channels that remained as Canadian 1-A clear channels, and the CBC stations took them. A scheme of sharing clear channels was worked out with the provision that directional antennas would keep the sky wave radiation below certain levels at the border of the nation that was dominant on the channel. This meant that order would be restored to the broadcast band.

And, let's face it, there were no frequencies that were reserved for Mexico, so they had an excuse for permitting the channel-jumping.

540 through 730

Stations assigned in this group were not required to move, except for the private Canadians such as CFRB, 690.

740 through 970

The first totally new "frequency" created in 1941 was 740 kc. WSB and others moved up one channel and 740 became a Canadian 1-A. 800 kc was created as a Mexican 1-A and stations above 780 were moved up two channels. 900 was created as a Mexican 1-A and stations on 880 moved up three channels. 1010 was a "drop-in" as a Canadian and Cuban 1-A. Because each nation would protect the borders of the other, WINS was permitted on 1010 in New York City with a sharp directional antenna protecting both borders.

980 through 1160

KDKA (980), WBZ (990), WHO (1000), all moved up four channels. The old 1010 was "disbanded" and all stations had to move to other frequencies, including CHML, CKCD, CKWX, KGGF and KQW (now KCBS), KYW and WDZ (1020) moved up four channels, and the old 1030 was eliminated and CFCN, CJBR and CKLW went to other channels. 1040 stations moved to 1080. 1050 moved to 1070. 1060 through 1160 moved up three channels, but WAPI went from 1140 to 1070, WWVA went from 1160 to 1170.

1220 is a new Mexican 1-A

A new Mexican channel, 1220 was created, and the changes to accommodate this involved adjacent channels. WCAU moved up four channels to 1210, WOAI moved up only one channel to 1200. Everyone on 1180 had to relocate to another channel. These included KEX, WDGY, WINS and WMAZ.

1200 through 1450

All of the Class IV and III stations above 1200 moved up three channels. The regular broadcast dial had ended at 1500 up to that time, but was to be extended to 1600. This required some more sleight-of-hand. The old 1450 stations ended up on 1480. The 1460 through 1490 stations, all clear channels, moved up four channels. The old Class IV assignments at 1500 moved down one channel to 1490 which was amazing since it affected only one adjacent channel situation-in New York

Share-time stations WWRL and WCNW couldn't remain on the Class IV frequency since it would then be adjacent to WHOM which ended up on 1480. So, WWRL and WCNW were moved to 1600, clear up at the top of the dial, where few receivers could tune.

1460 to 1600

1540 was created as a 'clear channel' for the Bahamas, 1550 a Mexican 1-A, 1560 as a Cuban 1-A, 1570 a Mexican 1-A and 1580 a Canadian 1-A.

In the pre-1941 days, the stations above 1500 operated as "high-fidelity" outlets on an experimental basis and were on 1530 and 1550 only, so their broad response modulation wouldn't interfere with other stations. The 1530 stations were moved to 1590 and the 1550 stations (WQXR and KMPC) moved to 1560, protecting Cuban shores.

This is a summary of the mechanics by which the various nations were given clear channels and the practice of channel-jumping was ended.

It has some similarity to the change in Europe and "down under" that took place on November 23rd of last year.

By Cary Simpson and reprinted from IRCA DX Monitor.

AUSTRALIAN NOTES

4CD TOWER COLLAPSES

Commenting on the starting date for 4CD's new Biloela translator in November last, the Manager, Frank Bellet said that optimism turned to pessimism when two thirds of the tower collapsed during the weekend of its erection. A temporary TV aerial was erected and following inspection by Post and Telecommunications personnel, the station started transmission in Biloela with reduced power a few days later. b & t

WORLD'S FIRST SOLAR BROADCAST ?

A first in Australia and possibly the world...that's the description being placed on 2ST's solar power broadcast early in January. The station was broadcasting from the Shoalhaven Energy Field Day - a display of solar power, methane power and wind power.

The station took its outside broadcasting equipment along and was operating on solar cells. Plans to broadcast on wind power didn't eventuate because of lack of wind. The outside broadcast lasted for six hours and apart from a slight hum there was no other interference. b&t

COMMUNITY SERVICE AWARDS

Stations 2CH and 5SE won the 1978 Bank of New South Wales awards for community service broadcasting. The annual awards recognise the wide range of community services provided by commercial radio stations. b&t

ASIANS LOOK TO OZ RADIO

For the Asian broadcaster, Australia is the best place to come and find out radio developments and trends according to the general manager of the Hong Kong Commercial Broadcasting Co. The HKCB operates the three Hong Kong commercial stations. (two Chinese and one English). The manager said that the US radio scene was a bit too way out for Asian broadcasters, while Australian radio was professional, disciplined and progressive. b&t

.....  
\* The proposed short term station in Gore will be on air from May 26 to June 4 \*  
\* 11 RNS are successful in obtaining a warrant. It will have some of the \*  
\* performances on a country music programme on the Tonight Show. Jim Healey \*  
\* who was with 4EA some years ago will be the announcer . \*  
.....

**STOP PRESS**

The short-term warrant for Levin is expected to have callsign 2XL and operate on 1125kHz with the 1kw portable transmitter last used for 1XH Auckland 603.

# BROADCAST TRAIL SPECIAL

7 Stations heard at Te Araroa/East Cape 3-7 March by Bryan Clark & Dene Lynneberg.

- 540 HCFA2 Tropicana strong 0816, id.  
 560 Unid Yank w/country mx 1127.  
 Another with easy listening 0906.  
 570 HJND R. Nacional EE lang lessons  
 KLAC ID 1048, fair. /1043  
 580 KMJ NBC news fair 0907.  
 585 Port Moresby regular late evening.  
 590 Cuba usually dominant 0715.  
 600 KOGO fair signals 1341.  
 Cook Islands still here, 1617 good.  
 Voz de Cuba network exc 0713.  
 605 Latin good here 0705. Ecuador?  
 610 KUAM still here. id 1759 good.  
 620 WSUN hrd briefly 0836, t/check.  
 KGW Portland Wx 0906 Poor-vg.  
Nicaragua Radiodif. Nacional is  
 dominant 0730-0830.  
 625 Unid weak SS 0721. Costa Rica?  
 640 KFI dominant 0900, talk shows.  
 648 AFRTS Okinawa Nx 1304, fair.  
 650 WSM country music good 0816.  
 666 Naumea hrd all day poor-fair.  
 670 WMAQ good signal 0856.  
 CMKP peaking exc 0715 past  
 0830. "Voz de la Revolucion"?  
 680 KNBR regular all evening.  
 690 HJ CZ Voz de Colombia 0747 id.  
 KKUA pops excellent 1152.  
 CMBC Havana good 0730-0830.  
 700 Reloj de Costa Rica 0734 better  
 than //6006 SW!  
 HJ CX Sutatenza good 0917.  
 WLW exc 0806 "More Music".  
 711 Fiji here all day, fair. 558 and  
 684 weaker signals.  
 720 CMGN Voz de Cuba mxd 0716.  
 KDWN orchestrals 0720 good.  
 725 SRS Surinam poor sigs 0928.  
 TILX believed SS here 1119.  
 730 Trinidad fair 0930-1000 with  
 devotions & pop oldies.  
 CKLG vg 1002 "LG 73" ident.  
 740 KTRH exc sports cmtry 0734.  
R. Antilles Montserrat noted one  
 day only in FF 0931. Poor.  
 770 KOB solid signals all night.  
 HJKH Tequendama id thru KOB  
 780 KCRL good mx 0915. /0852  
 Voz de Cuba o/unid Latin 0735.  
 790 KKON dominant signal 0820.  
 800 PJB thundering in 0810 in PP.  
 XEROK 'cure-all' advts 0942 vg.
- 830 KIKI disco mx 1601 strong.  
 834 Belize briefly fair 1105.  
 840 WHAS fair, local news 1109.  
 850 KOA exc, sports news 1108.  
 854 R. Nacional Peru vg 0730.  
 860 XEMO inspirational mx, EE  
 mxd unid Yank 0710.  
 870 WWL country mx good 0915.  
 880 OBZ.4N Union incredible  
 signals as late as 1055!  
 KRVN id 1125. Wx 1240.  
 920 HJAE Emis. Fuentes 0751 fair.  
 930 R. Antilles Montserrat s/on  
 0900 daily. Strong 7/3.  
 940 KAHU full AM/FM id 1200.  
 KFRE dominant. 0812 wx.  
 950 KJR Seattle w/pops 1139.  
 960 KOOL News, fair 1100.  
 970 KYTE ids frequently 0850.  
 KPJA gospel prgm 1531 gd.  
 985 Unid Latin 1112. HJ or OAX?  
 990 KHVH "Radio 99" sports 0748  
 KKIS assumed the Larry King  
 Show mxd KHVH nx 1125.  
 995 R. Suceso nightly gd 0800-1100  
 1000 HJHF network (RCN) id. 0828.  
 1005 HJJR R. Colosal often gd 0744.  
 1010 Unid "R. Veinte" ? id 0701.  
KXEN s/on 1215 mxd XEHL.  
 XEHL Cognac advt 1221 good.  
 1020 KTNQ "Ten-Q" id 1020 vg.  
 1030 KTWQ vg over KCTA 1248.  
 KCTA 1130 s/on very good.  
 1040 KPOL strong 0658 hit parade.  
 HJ CJ R. Super promo 0600.  
 WHO Snow Report 1148, gd.  
 1055 HJFZ Voz del Centro gd 0650  
 1060 HJ.. RCN net vg 0617-0700.  
 CFCN strong, clear 0846.  
 1070 HJCG R. Santa Fe o/KNX 0738  
 1090 XEPRS "Super Gold" 0838 gd.  
 1100 KFAX vg 0644. Gospel 1116.  
 HJCN Reloj vg 0630 w/idents.  
 1110 KFAB "Serenade in the Night"  
 0844 fair. 1113 very good.  
 1120 WVUV "The Power of Polynesia"  
 exc all night to past 1700.  
 1130 KSDO News Radio id 1259.  
 1140 HJEV La Voz del Valle id mxd  
 KRAK UPI Nx 0800 vg. /0754.  
 1150 Radio Caribes International  
 in FF 0947 fairly good. Locat-  
 ion St Lucia or more likely the
- Radio Jumbo Dominica 545 tx.  
 1165 Caribbean Radio Lighthouse, Antig-  
 ua 1000 s/on gd. Religious prgm.  
 1170 KVOO strong 0709, country music.  
 1180 HJGK "RCN" net 0649 w/het.  
 YVNJ "R. Petrolera" ids 0647.  
 VOA Marathon s/on 1130 good.  
 1190 KEX always here at night.  
 1200 R. Super de Cali mxd 0745.  
 WOAI exc religious prgm 1200.  
 1210 KGYN Farm Produce Report 1318.  
 1220 CKDA adverts 1006 good.  
 XEB in SS 1126, only fair.  
 1265 R. Paradise s/on varied between  
 0903 and 0920. Vg some days.  
 1270 CMJG Reloj Nacional atop 0720  
 1280 HJKN R. Musical Todelar id 0647  
 1290 Unid XE.. mxd KMEN 1300.  
 1305 DYFX id 1033 "Eagle B'castgcorp"  
 1310 Martinique regular 0957-1030 FF  
 KNUI Hawaiian Nx 0855 good.  
 1360 HJTU Reloj Cartagena gd 0600.  
 1380 Unid SS "R. Sensacion" id 1137.  
 1390 KCEY country mx 0650. Nx 0655  
 1400 Jumble of Latins nightly.  
 1410 WUNI sports 0649, mixed.  
 1420 HJ.. Caracol net 0557 past 0630  
 1430 New strong Voz de Cuba outlet  
 here nightly, 0631.  
 1450 HJPM Galeon gd hetting 2YM  
 1490 Punto Cinco pest 0949. /0640.  
 1500 HJLJ ids as "Radio Tigre Internac-  
 ional", 0610 good.  
 1520 SS fair, steady over KOMA 0606.  
 KOMA Farm Report 1033.  
 1530 KGBT R. Panamericana in SS was  
 earliest f/in, around 0515.  
 1550 HJJI Fantasia f/in 0530 w/pops.  
 Exc at sign-off 0557.  
 HJLT R. Farallones apparent id  
 0600 after Fantasia off. Mixed.  
 1570 XERF EE "Radio Bible Hour" 0625  
 1580 HJ.. gd 1033, but usually KDAY.  
 1590 WXRFF R. Guyama Puerto Rico w/  
 another SS 1001-1048 7/3.  
 Good and steady.  
 1600 YVJR Melodia good 1035.  
 1602 2EA harmonic of 801. Id 1200.

Receivers - Drake SPR4 & Eddystone  
 680X, Aerials - 170m E-W, 450m NNE  
 150m WSW-NNE, 150m NE, 150m NW-  
 SE, 200m E-W, 100m E-W.

Bruce Lister, moving to Christchurch, will retain Equipment Review. Responsibility for pages 1 and 2 will be with new Chief Editor Keith Robinson, well-known Southland DXer and former newspaper journalist.

Under the new arrangement almost all incoming contributions from members will require redistribution to editors outside of Wellington. The task of sorting out your notes for remailing will now be controlled by John mainland. John will need your full support in meeting the monthly deadlines and submitting your notes for each editor on separate paper (decent sized please!), each page clearly labeled with your name and the magazine section involved. The all-important "behind the scenes" tasks will be ably handled by Wellington members Bruce Williams (Publishing), Dene Lynneberg (Envelope Production), Jack Farrow (New Member Kits) and Cecil Symmes (Magcom Treasurer).

I have thoroughly enjoyed my period as Chief Editor, with it's many challenges and the reward of many fine friends made. Now my company is transferring me to Auckland. After settling into a new home and job, I hope I'll be able to further support the club and the magazine, and also to catch up on all my correspondence! Thanks to all those who have contributed to the DX Times during the past 6½ years - I hope you'll continue to give your support!

Bryan Clark

### BOX 2956

**ENERGY CRISIS?** In these times of conservation, it is interesting to know that a radio takes 10 hours to use a unit of electricity, compared with 5 hours for a TV set and 1 hour for a thousand watt one bar heater.

**WANTED DEAD OR ALIVE** A reward is offered for information leading to the arrest of Eddy Current, charged with the induction of an 18 year old coil named Milli Henry, found half choked and robbed of valuable joules. This unrectified criminal armed with a ferrite rod, escaped from Weston Primary Cell, where he had been clapped in ions since Faraday. With an Erg to be free, his escape was carefully planned in 3 phases. He fused the electrolytes, then he climbed through a grid despite the impedance of the wardens whose reactance was too slow. Finally he went to earth in a magnetic field. What seems most likely is that he stole an AC motor. This is of low capacity and he is expected to change it for a megacycle and return by a short circuit to ohm. He may offer series resistance and is a potential killer. (signed): A.C. Mains Humm. Sheriff

from Southland Branch's "DX Digest" February 1979

**HEARD** on Finnish International Radio's "Airmail" programme on 28/1: "One must include a lot of technical information or comment on the programme to be sure of receiving an Audience Card." Does this mean they will read a report and verify it, or just verify receipt of it as a letter? Gets a little confusing at times doesn't it!

Bill Jolly

**GREENLAND** When does an international telephone transmitter become an international broadcast station? When the Gothaab Greenland radiotelephone station on 14900kHz is not carrying phone calls, it, like most other SW telephone utilities, airs a test tape in English and Danish. But the English portion of Gothaab's test tape includes information on Greenland's history, geography, etc - obviously intended to attract potential tourists. And reception reports on that advertising are not only welcome but verified with the same QSL folder as used by the regular Gothaab broadcast station. This information appeared in a recent "Modern Electronics" magazine, and in sending it along, Ian Cattermole asks what the League's attitude would be towards a QSL from the station. (Methinks we'll argue about it when you get the verification Ian, hi! Ed).

### RADIO COMORES INTERNATIONAL

Winner of the 1978 Best of the Year Trophy was Paul Edwards of Wellington, with Comores 3331kHz 4kw. It's coming up to African tropical DX time again, so some timely facts from Paul....  
 Heard from 1629 till after 1730 in October 1977, Radio Comores International verified my English report and 2 IRCs in about 3 months. A QSL card and 2-page letter were received from S.Hassane Djaffer, responsible for the External Service of Radio Comores. EE is broadcast 1600-1700 (with EE news noted 1700-1710, then FF to 1800. Swahili 1800-1900 and Malgache 1900-2000 complete the External service schedule on 3331kHz.  
 The best time to try for this station is when there is a very good peak in African reception on 3MHz. Do not confuse with the Pakistani station on 3330kHz. Separation is obviously tricky and it is important to get a good station identification before sending a report.

**NEW HEBRIDES** Australia has given the new Hebrides A\$1.2 million to upgrade the medium and high frequency broadcasting service - including studio facilities and transmission equipment.

Bruce Williams



# General Coverage Communications Receiver FRG-7

9



## ● 0.5MHz thru 29.9MHz Coverage With 10kHz Readout

The model FRG-7 is a precision built high performance communication receiver designed to cover the bands from 0.5 MHz - 29.9 MHz. Its state of art technology offers an unprecedented level of versatility. The Wadley Loop System (drift cancellation circuit) coupled with a triple conversion super heterodyne system guarantees an extremely high sensitivity and excellent stability. It provides complete satisfaction to amateurs as well as BCL's with superb performance and many features such as RF attenuator, selectable tone, and automatic noise suppression circuit.

### Features

- **Wide Versatility** - The receiver can be used for listening to various types of communications, commercial radio stations on medium wave, international short wave, amateur bands and citizens' band.
- **Exceptional Sensitivity and Excellent Stability** - The Wadley Loop System coupled with a triple conversion super heterodyne system guarantees an extremely high sensitivity and excellent stability. The dial indicator with 1 MHz VFO range will enable you to enjoy simplified tuning.
- **5 kHz Direct Dial Readout** - The extremely stable VFO equipped with precision dial mechanism permits 5 kHz direct dial readout, thus permitting presetting of dial for your desired station even when not on the air with assurance of "on the target" reception.
- **RF Attenuator** - The selectable three position RF attenuator is effective when tuning local or high powered stations. Tuning for a weak desired station adjacent to a strong unwanted signal, proper selection of DX or LOCAL position will help reduce the interference considerably.

- **Automatic Noise Suppression Circuit** - When impulse type noise is experienced the AM ANL position will activate the automatic noise suppression circuit which effectively eliminates all pulse type noise, permitting you to enjoy noise free reception.
- **Three Position Tone Selector** - The audio spectrum in SSB communication is limited within the range of 300-2700 Hz. Broadening the bandwidth of the receiver will introduce more noise or interference unnecessarily. The tone selector will limit the audio spectrum and its selectable positions will increase readability of the signal being received. It offers three positions: LOW (high cut), NORMAL, and NARROW (high and low cut).
- **Accepts Three Different Types of Power Sources** - The receiver can be operated on AC, DC or internal battery supply. When more than two power supplies are connected, it automatically selects the most economical source. The light switch will conserve energy when operated on batteries. The line cord retainer comes in handy in portable operation.

### Specifications

**Frequency Range:** 0.5-29.9 MHz general coverage in four bands.

**Mode:** SSB (selectable USB or LSB), AM (ANL) or CW.

**Frequency Stability:** Within 500 Hz during any 30 minute period after warm-up.

**Antenna Impedance:** High impedance for 0.5-1.6 MHz, 50-75 ohm unbalanced for 1.6-29.9 MHz.

**Circuitry:** 13 Transistors, 9 FETs, 2 Integrated Circuits and 16 Diodes.

**Power Requirement:** 100/110/117/200/220/234 V AC, 50/60 Hz or 13.5 V DC negative ground. Battery: Type UM-1x8.

**Sensitivity:** 0.25  $\mu$ V for 10 dB Noise plus Signal to Noise Ratio for SSB and CW, 0.7  $\mu$ V for 30% modulated AM at 10.5 MHz.

**Selectivity:**  $\pm$ 3 kHz nominal bandwidth at 6 dB and  $\pm$ 7 kHz at 60 dB down.

**Output Impedance:** 4 ohms.

**Audio Output:** More than 2 Watts.

**Audio Distortion:** Less than 10% at 2 Watts output.

**Size:** 340(W) x 153(H) x 285(D) m/m.

**Weight:** 7 kg without batteries.

Price - \$ 391.00 (as at 1/3/79)

# Tricity House

209 MANCHESTER STREET, CHRISTCHURCH  
P.O. Box 1410, Christchurch Phone 67-443

BOX  
266

QSL

LETTLANDS RADIO RIGA

RADIO  
**RM**  
MOSCOW

- |                |              |               |                  |          |
|----------------|--------------|---------------|------------------|----------|
| 1. Archangelsk | 5. Kalinin   | 9. Kursk      | 13. Murmanak     | 17. Serp |
| 2. Armavir     | 6. Kazan     | 10. Leningrad | 14. Orenburg     | 18. Tula |
| 3. Gorki       | 7. Kingisepp | 11. Micurinsk | 15. Petrozavodsk | 19. Ufa  |
| 4. Kalachf     | 8. Konevo    | 12. Moscow    | 16. Riazan       | 20. Volo |



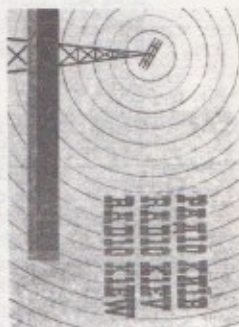
- |                    |                 |               |              |
|--------------------|-----------------|---------------|--------------|
| 35. Omsk           | 36. Tyumen      | 42. Yuzhna-   | 44. Baku     |
| 36. Petropavlovsk- | 39. Ulan Ude    | Sakhalinsk    | 45. Minsk    |
| Kamchatka          | 40. Vladivostok | 68. Volgograd | 46. Moghilev |
| 37. Sverdlovsk     | 41. Yakutsk     | 43. Yerevan   | 47. Orsha    |

- |                      |                     |                 |                  |
|----------------------|---------------------|-----------------|------------------|
| Kharkov 21. Voronezh | 25. Irkutsk         | 29. Komsomolsk- | 32. Nikolayevsk- |
| 22. Zigulevsk        | 26. Chanty-Mansijak | am-Amure        | am-Amure         |
| 23. Blagoveschensk   | 27. Kenga           | 30. Krasnoyarsk | 33. Novosibirsk  |
| 24. Chita            | 28. Khabarovsk      | 31. Magadan     | 34. Okhotsk      |



- |               |              |           |
|---------------|--------------|-----------|
| A Estonia SSR | F Moldavia   | M Uzbek   |
| B Latvia      | G Georgia    | N Turkmen |
| C Lithuania   | H Armenia    | P Tadjik  |
| D Byelorussia | K Azerbaijan | Q Kirghiz |
| E Ukraine     | L Kazakh     |           |

- |              |             |                     |               |                |
|--------------|-------------|---------------------|---------------|----------------|
| 48. Tallinn  | 52. Frunze  | 56. Dushanbe        | 60. Kharkov   | 64. Simferopol |
| 49. Tbilisi  | 53. Riga    | 57. Ashkabad        | 61. Kiev      | 65. Starobelsk |
| 50. Alma Ata | 54. Kaunas  | 58. Tashkent        | 62. Lvov      | 66. Uzhgorod   |
| 51. Dzhabul  | 55. Vilnius | 59. Ivano-Frankovsk | 63. Nikolayev | 67. Vinnitsa   |



# 12 CONTINENTS LISTING

with Bryan Clark, assisted by incoming Editor Philip Hamlin.

Time for our twice-yearly listing of members' QSL totals by continent, with the featured continent of Central America. The headings should be self-explanatory and we hope a few more members will join in! The asterisk by your name indicates you'll be deleted if we don't hear from you with updated totals for our next page in September. The asterisk by your Pacific total means you're one of the lucky ones to verify AFAN Antarctica.

BROADCAST	A/NZ	Pac	S.Am	C.Am	N.Am	Eur	Afr	Asia	Cnt	Total
	111	60	18	26	2772	21	1	85	82	3067
Norm Maguire (USA)	430	101	24	85	1057	129	28	430	149	2284
Arthur Cushen	373	77	50	49	277	107	36	311	157	1280
Ray Crawford	-	-	-	-	6	136	4	2	33	148
Gunter Jacob (FRG)	377	62	3	2	317	60	5	127	86	953
Eric McIntosh*	256	55	13	31	262	95	20	196	115	928
Robin Chambers	284	64	4	7	155	6	-	44	47	564
David Ricquish	123	48	30	31	161	26	5	41	88	478
Bryan Clark	31	34	78	114	50	14	2	102	72	425
Hank Wilkinson(USA)	212	33	5	10	86	13	-	36	62	406
Paul Ormandy	163	23	-	3	75	-	-	8	27	272
John Allchin	101	14	-	1	41	3	-	11	24	171
Paul Rawdon*	104	1	-	-	3	-	-	-	4	108
Paul Ramsay	169	18	1	3	49	-	-	10	25	250
Jim Benzoni	108	6	-	1	6	-	-	1	8	122
Stuart Forsyth*										

Apologies for the incorrect order chaps, welcome to Gunter Jacob too, apologies for your inclusion amongst the MW 'big boys' your first time up. 'Best' QSLs notified were Jim Benzoni Radio Americas 1165, Paul Ormandy Faro del Caribe 1075 5kw and Caymans 1555 10kw, David Ricquish Radio Paradise 1265, John Allchin also with Caymans 1555, Robin Chambers TIEEAW Costa Rica 1525 250w, Ray Crawford HIDA 1590, WKFE 1550 & Panama 1320, Arthur Cushen YNOL Nicaragua 820 10kw, Norm Maguire ACE Puerto Rico 1470 50w, Hank Wilkinson WWW 250w, Bryan Clark Caymans 1205 1kw.

## SHORTWAVE

Arthur Cushen	294	370*	422	216	326	1532	487	935	243	4582
Barry Williams	76	89	110	?	262	586	680	493	217	2101
John Mainland	29	50	68	71	114	634	226	275	200	1467
Ray Crawford	100	62	141	61	98	537	112	308	158	1420
Bryan Clark	137	48*	72	37	115	405	261	179	198	1258
Bill Huddleston*	87	41	34	31	120	542	104	267	136	1226
Gunter Jacob (FRG)	130	4	109	35	76	517	143	198	122	1212
Paul Ormandy	54	36	41	24	54	385	113	146	160	854
Eric McIntosh*	70	76	36	5	106	185	59	104	113	641
Jim Benzoni	55	39	23	25	66	181	28	109	97	529
Paul Rawdon*	26	17	26	20	33	169	46	115	124	452
Jim Gorman	48	10	14	-	13	73	5	54	51	217
Bill Jolly	36	8	13	4	13	108	11	76	68	269
Ian Wells*	9	13	9	8	14	46	4	32	60	135
David Munn	7	11	5	7	10	38	14	19	58	111
Ian Hitchiner*	4	3	2	6	10	39	11	28	38	103
Tim McSweeney(Aust)*	7	6	7	0	8	15	5	34	29	82
Grantley Williams (")	20	3	6	4	4	19	5	14	32	75
John Allchin	14	3	2	3	4	25	13	16	55	81
Philip Hamlin*	3	3	4	2	2	27	2	10	35	53
Sturat(cops)Forsyth*	17	4	1	2	5	17	-	5	28	51
Hamish Campbell*	6	-	1	-	2	4	-	4	11	17

SW favoured QSLs are: John Mainland Martinique 3315 4kw, David Munn BEC Antigua 6195, Jim Benzoni TIHGB 6205, Paul Ormandy Belize 3300, Gunter Jacob Radio Americas Swan Island 6000, Ray Crawford Zelaya Nicaragua 5955 500w, Barry Williams & Bryan Clark with 4VEH Haiti 15280 80w, Arthur Cushen HP5K Panama 11700 500w. FEATURED CONTINENT FOR SEPTEMBER is AFRICA. Your new editor will be Philip Hamlin.

# Shortwave Mailbag

with Barry Williams and  
helper at Te Araroa .

13

A quiet month this month reflecting the lull in logging over Christmas . However Jim Gorman has a lengthy list of Radio Moscows back and the transmitter sites will be of help to those looking for new Russian countries .

While at Te Araroa there were signs of Africans improving on 80 metres but there still was a lack of activity on 90 metres .

JACK SEARLE Haumoana , WYFR 21515,21615  
AWR SIBC 11870,15120,17850. NHK 21640 .  
RM Voronezh 12060,Lvov 9675 .WINB 17720 .  
SRI 11760 with 16 reports out .(Jack has  
just delivered his notes from the cabin  
next door .)

RAY CRAWFORD Invercargill.Finland 21495,  
R.GLOBE 8125,Emisora Kennedy 4775,La Voz  
de Napa 3280 with no reports out .Very  
nice those Latins still coming back .

DENE LYNNBERG Titahi Bay. WYFR 21525,  
VOA Delano 25990,Greenville 26040 ,  
RN Madagascar 21480,RN Bonaire 21640,  
R.Sweden 21700 and SBC 11780 from the  
Swiss PTT with their own card .

JOHN MAINLAND Wellington. with only one  
verie back from NSB 8055 . Thats a very  
quiet month for you John .

JACK FARROW Lower Hutt. has 5 reports  
out with QSL's from VOA Delano 25900,  
21460,VOA Greenville 21590,RA 21740  
and R.Pakistan 21590 .

DAVID HUGHES Palmerston North has had a  
very good month with 32 loggings and  
veries back from R.Uranda 15325,KBS  
9580 with pennant,RA Carn. 17870,RFI  
17735 with pennant,RN Bonaire 17810,  
BBC 15070, SRI 21520,RM Irkutsk 15175,  
Simferpol 15130, Peace & Progress  
15330,VLM4 4920,Tashkent 9540 and  
Finland 21495 with verification card.  
Seems to be the luck of the draw  
with getting a proper QSL card from  
Finland .

ALEX WELLNER Bondi NSW.R Sweden 21690,  
Ankara 15125, Bagdad 11925, R.Kiev 17845,  
Alex has 3 loggings including Nepal 3425 .  
Lets hope we see it in the Mailbag pages  
as it is a tough one to verify .

GRANTLEY WILLIAMS Athelstone S.Aust.  
has them back from RAI 9710,BBC Antigua  
9510,Singapore 11750,England 11955 and  
Cyprus 21660 all verified through the  
World Radio Club .R.Sofia 9705,RFE 11880  
RA Lyndhurst15180,Shepp.9570,R.Sweden  
21690, and several time stations .  
With 26 loggings this month we should see  
your name in Mailbag for some time  
Grantley .

DES DAVEY Te Kuiti has verifiedRFE 11880  
IBA 15415,RN 9715 and Kuwait 12025 .  
Des our latest information is R.Sofia in  
EE 1930 on 9700 and 6070 khz . We think  
this time the best bet .Looking forward  
to your trip to Aust ralia ?

BARRY WILLIAMS Auckland with 2 months  
veries . RN Madagascar 21480,RM Moscow  
6010,Simferpol 17855,Lvov 9765,Kampala  
6030,KTWR 17855, RA 17870,Hanoi 12035,  
Finland 21495, VOA Tangier 15245, RN  
Madagascar 11730, REE 6065, RNZ 11945,  
R.Peking 11720,R.Veritas 15275,17710,  
LLG3 9590,AWR SIBC 11870,17850 with  
special QSL for test broadcasts to  
Africa/Middle East .

BRYAN CLARK Wellington ,at present sitting  
opposite me at Te Araroa ty ding out reports  
Veries from Liberty 25690,YNM Nicaragua  
5920,BBC London 17895 ,Tebrau 17880,  
Antigua 9510,Cyprus 9750,verified on a  
World Radio Club Award . AWR SIBC 15115  
11870,17850,15120 .Guess you are very  
pleased with Nicaragua .

ARTHUR CUSHEN Invercargill has listed  
Austria 21555,TWR Bonaire 9610,RBI 11720,  
BBC-UK 21710,Tebrau 17880,Cyprus 11760,  
and Austria 17770 . Hello Arthur ,this  
place is certainly an unusual and  
unpredictable DX site .

JIM GORMAN Papakura getting back the  
results of a major attack recently on  
R.Moscow with the following Armavir  
12055,Frunze 17825,17870, Leningrad  
21600, Minsk 11745,15490,Moscow 15510,  
15520,21575,Nikolaevsk-na-Amure 9780,  
Riga 21615, Ryazan 11910,17775,Tallin  
17700,Serpukhov 11810,15125,21590,  
Simferpol 17875,17880,Tbilisi 15305,  
Tula 7240,Vinnitsa 9720,Vladivostok 5960  
Vologda 15350,plus NHK 6030,9585,KGEI  
5980,SRI 15235,IBA 21495,Poland 7270,  
TWR Monaco 7230,Portugal 11935,RN Lopik  
9895,11720,ORF 21555, R.Western Districts  
3305, Your new FRG7000 getting good use?

PAUL ORMANDY Oamaru with only 1 log but  
veries from RSA 9610,Pakistan 21585, RN  
Madagascar 11740,RFE 25690,RM Vilnius  
17870 .

RADIO NEDERLAND ARE ISSUING A SPECIAL QSL CARD TO MARK THE 10th ANNIVERSARY OF THE  
BONAIRE RELAY STATION. TO EARN ONE OF THESE LIMITED EDITION QSLs, REPORT ON A  
RADIO NEDERLAND TRANSMISSION VIA BONAIRE AND REQUEST THE SPECIAL 10th ANNIVERSARY  
QSL. Bonaire has EE 0730 on 9770,9715; 0830 9715; 2030 21640,17810;0230 9590,6165; 0530 9715,6165.

PAUL RAMSAY Oamaru has logged 9 but only one back, HCJB 9605. Trust you will enjoy working with the Leagues Archives. DAVID MUNN Hamilton 20 reports and varies from Tanzania 4785, Veritas 17710, KTWR 17855, FEBC 21515, Egypt 9475, RSA 21535, Nigeria 4990, Garoua 5010, DW Antigua 11765, FEBA 15405, RFE 6065, VOA Delano 26095 and UN 9565. See you up in Auckland some time?

IAN CATTERMOLE Blenheim, has back R. Moscow 21530, 9780, 9450 and 15510. Did they leave out the sites? Vienna 21530, Vatican 9615, 7250, 8210, RFI 25620, 15425, VOA Munich 15120, VOA 25990, RA 6145, RBI 6040, BBC 15215, HCJB 9605, 17865, Portugal 15125, Egypt 15375, Peace & Progress 11785, Sarawak 4895, 6050, Veritas 15215, RFE 21665, 17805, TWR Bonaire. Your verie total rising steadily Ian.

MICHAEL BYRNE Charters Towers Qld. Over the last 2 months has back IBA 25605, RSA 25790, Finland 21495, Radio Moscow 9780, Baghdad 11925 and R. Canada International via SIBC 15120. Would be interested to hear how effective the THEJR beam is and what bands you use it on.

A request from Paul Ramsay who has taken over the supervision of the Archives from Peter Grenfell. Paul would like to hear from anyone who has old veries of interest or who knows of any former DXer willing to donate their QSL collections, Call books, old magazines etc to the Archives. Pauls address can be found elsewhere in this issue.

NORM MAGUIRE New Mexico has QSL'd RSA 9670, Berne 6045 & DW 6100. Norm is W5NXP mostly on 20 metres SSB.

STUART FORSYTH Christchurch has nil out but replies from RM 17795, 7195, 17820 with no transmitter sites supplied, IBA 21495, Sweden 21690, Portugal 9740. Happy 21st birthday Stuart! Did you get my Radio U report? BC

JACK SEARLE Haumoana has varied RM Lvov 9675, WINE 17720, NHK 21640, WYPR 21525, 21615, 17845, AWR Special QSLs 15120, 17850, 17870. 16 reports away. Great company at the Cape Jack! Bandwatch held.

NIGEL WHITE Christchurch yr Bandwatch contributions too late due incorrect address. Will include for next month.

PETER JONES Hamilton returns to the hobby after a 10 year break. He has 63 reports away & QSLs from RN 9715, RSA 17780 (with pennant), KTWR 11840. Yaesu on

on order will be a great boost Peter. OK to recommence Ladder on current totals.

BILL JOLLY Kawerau has them back from AIR 11740, Uganda 15325, DW Malta 17820, NHK 11960, RFI 17795 with 2 pennants, RM Moscow 12075, Sofia 7270, RNZ 15345, R. Sweden 21690.

ANDREW CUTLER Auckland. Over the last month has them back from Finland 21490 (audiance card), R. Moscow 9450, Henoi 10040, NHK 17795, RSA 15220. With 10 out we will see your name in next months Mailbag.

BILL MANNIX Teatere 11 reports and QSLs from R. Moscow 17810, WINE 15185, WYPR 11720, HCJB 11900, R. Prague 17775. What is the Clifden Ranzer Station, Fiordland National Park like for DXing. Plenty of room for antennas?

RAY BABBAGE Wellington, but at present punning round in circles at Te Araroa looking for mushrooms. Ray has veries back from Vatican 7250, Norway 9590, RN Madagascar 11740, Canada 15150, WINE 15185, XBERMX 15385 and pennant, FEBA 15405, Bucharest 17805, Norway 21730.

#### BEST OF THE MONTH

Over 9 Mhz.	David Munn Radio RSA 21535 khz 250 kw 108 points
Under 9 Mhz	Ray Crawford La Voz del Napa Ecuador 3280 khz 1000 watts 110 points

BEC EASTERN RELAY at Masirah Island is sked as follows:

7140 1615-1700 Persian, 1700-2000 in AA. 7275 kHz - 0030-0050 Bengali, 0050-0110 Hindi, 0110-0140 Urdu, 0140-0200 Hindi. 9590 kHz - 0300-0315 World Service, 0345-0545 AA. 11910 kHz - 1330-1345 Hindi, 1345-1430 Bengali, 1430-1515 Hindi, 1515-1600 Urdu.

15310 0900-1830 World Service. 17770 0900-1330 World Service. Finally, 6030 kHz 1845-2000 in AA. JSWC

FINLAND has a frequency change to North America - 15400 kHz is sked 1300-1330 and 1430-1500. On Sundays broadcast runs right thru from 1300-1500. David Hughes

NORWAY's sked to 5 May includes the following EE transmissions on Sundays: 0800 on 17825, 15135, 9590 kHz; 1200-1230 on 21730, 17755, 6015 kHz; 1800 on 21730, 17755, 15345 kHz; 2000 on 21730, 15175, 11850 kHz. Each EE prgm lasts 30 minutes. via Jean Pierre Buonocore

CAIRO's English language sked is: 0200-0330 to Nth Am. on 9475, 12050; 1215-1330 on 17920 to S.E. Asia; 1630-1845 on 15255 to E, C & S. Africa; 2030-2200 on 15375 to West Africa; 2215-2345 to Europe on 9805. I. Cattermole

AUSTRIA on 21475 kHz ex 21470 from 0600 GMT. BC

# SHORTWAVE BANDWATCH

15

COORDINATED BY JOHN ALLCHIN



Firstly, apologies to those members who sent in late notes to my home address for the January and February issues of the DX Times. Being overseas for the last two issues meant that I was unable to forward them on to our other editors. A rather lean number of contributors this time round, presumably some mail has been caught up in the Cook Strait ferry dispute. If so, they will be held over for next month. We are now back on New Zealand Standard Time, and the conclusion of Daylight Saving also ushers in frequency adjustments for the March 4th to May 5th period of broadcasting (M79), so some frequency changes may be noted as you tune the bands. According to the Sweden Calling DXers Programme (SCDXers) of 27/2, Radio Nacional de Brasilia has been reported back on Shortwave for a two month trial period, with one hour programmes in German, French and English. Broadcasts have not yet been located but the likely frequencies will be 11780 or 15245 as before, with a power of 250kw. If you do catch them, it may be an idea to show a bit of interest and let them know they are being heard. They generally have a pretty interesting programme, and do verify reception reports.

Some interesting observations in the past month - the Voice of Indonesia in EE on a new 19 metre band frequency, EE from RAE Argentina on 25 metres, KBS Seoul testing out of band, Afghanistan using a new 25 metre band frequency for their EE broadcasts, Kuwait noted very strongly on a new 13 metre band frequency in EE and Springbok Radio on 19 metres.

Remember to check those lower frequencies now for openings to Africa and Latin America!

## FREQUENCIES IN KILOHERTZ

TIMES ARE G.M.T. (Add 12 hours for NZ Standard Time)

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITS
3230	1720	TAIWAN	BCC Taipei	fair in Chinese // 3335 with good signals.	DW
3255	1729	INDIA	AIR Delhi	fair in vernaculars. English news at 1730.	DW
3380*	1817	MALAWI	Malawi Broadcasting Corporation	good in Chichewa.	GW
3425*	1435	NEPAL	Radio Nepal	fair in EE, but quite noisy.	AW
3910	1732	JAPAN	FEN Tokyo	fair in EE. DW. Poor to fair in EE at 1032. GW*. Fair signals 0915 in EE.	DH
3925	1728	INDIA	AIR Delhi	fair in EE with record requests.	DW
3955	1808	POLAND	Warsaw	very good with programme in Swedish.	DW
3965	0710	FRANCE	Radio France Internationale	poor in FF.	DW
4679*	1111	ECUADOR	Radio Nacional Espejo	presumed the one with Andean music 17/2. SS anacts 1117 and more music 1123. Initially good, with abrupt fade 1125.	DEM
4775	1400	AFGHANISTAN	Radio Afghanistan Kabul	with interval signal, ID and then into bulletin of EE news. Good level.	LM
4860	1735	INDIA	(Kashmir) AIR Srinagar	fair in EE at this time.	DW
4920	1731	INDIA	AIR Madras	fair to good with EE news to 1735.	DW
4976*	2042	UGANDA	Uganda Broadcasting Corporation	very poor in (?) Swahili.	GW
5045	0745	COOK ISLANDS	ZK5	with music programme in EE, fair signal.	DH
5052*	1140	SINGAPORE	Radio Singapore	with EE prgm. News and music 1143. 1145 ID and commentary. Very good signal 1/2 with some utility QRM.	DEM
5995	0831	AUSTRALIA	Radio Australia	good with EE programme.	GW
5985	1430	BURMA	BBS Rangoon	with EE pops and news. 1513 ID 'This is the Burma Broadcasting Service Rangoon'.	LM
6065	0530	SPAIN	Spanish Foreign Radio	in EE to North America at a very good level.	DH
6105*	0944	NEW ZEALAND	Radio New Zealand	very good in EE.	GW
6115	0835	JAPAN	NSB Tokyo	poor in JJ with Kate Bush music. Mixed Radio Moscow HS // to 9595, 6055, 3945 & 3925.	DW
6145	0750	ALGERIA	RTA-Algiers	good in Arabic // to 9685.	DW
6240	1900	SOUTH KOREA	KBS Seoul	test transmission with popular music closing 1930. AC Good in Korean with KK popular music. First heard 27/1. Fade out 1910.	DW
7130	2112	WEST GERMANY	Deutsche Welle	very good in EE.	GW
7195	0506	USSR	Radio Moscow	with news and views very good in EE.	JG
7270	0630	POLAND	Warsaw	fair in EE with 'This Week in Poland'.	DH
7330	0507	USSR	Radio Moscow	good in EE with news and comment.	JG
9009	2002	ISRAEL	IBA Jerusalem	good with news and 'Review' in EE.	JG
9022	2000	IRAN	Voice of Iran	good with EE news. EE prgm retimed from 1930 hours.	LM
9535*	2109	CANADA	RCI Montreal	fair in EE.	GW

<u>FREQ</u>	<u>TIME</u>	<u>COUNTRY</u>	<u>STATION</u>	<u>PROGRAMME &amp; RECEPTION DETAILS</u>	<u>UNITS</u>
9535	0330	EAST GERMANY	Radio Berlin International	in EE to North America to 0415.	AC
9575*	2230	ITALY	RAI Rome	in EE with news and 'As it Happens' prgm. African news, very good level.	DEM
9590	0808	NORWAY	Radio Norway	good in EE with programme on skiing.	JG
9635	0730	MALTA	Adventist World Radio	with EE and FF ID, then into Greek. Strong.	JB
9640*	1000	ANTIGUA	DW with GG prgm. 1000 EE annct and 'Caribbean Relay' ID.	Very good level with some QRM.	DEM
9665	0700	PORTUGAL	Adventist World Radio	Sines with EE and FF ID, then into AA, good.	JB
9670	2040	PORTUGAL	IBRA	very strong in EE with 'Revival Time'.	JG
9765	0703	USSR	Radio Moscow	with EE programme.	JG
9805*	2112	EGYPT	Radio Cairo	excellent with FF programme.	GW
9833	0500	ISRAEL	IBA Jerusalem	very good with news in EE.	JB
9880	1938	CHINA	Radio Peking	with bulletin of EE news.	JG
9915	0526	GREAT BRITAIN	BBC Wooferton	in FF with 'English by Radio' at good level. FF news 0530. 0600 World Service EE news.	JB
10040*	2101	VIETNAM	Voice of Vietnam	good with programme in EE.	GW
11620*	2107	INDIA	AIR New Delhi	good to very good in EE.	GW
11630	1822	USSR	Radio Moscow	very good in EE with political talk and commentary.	JG
11638	0500	ISRAEL	IBA Jerusalem	good with news in EE.	JB
11665	0500	ISRAEL	IBA Jerusalem	very good in EE with news, best frequency at this time.	JB
11710	2300	ARGENTINA	RAE	fair with news in EE, features and musical items.	LM
11720	0720	HOLLAND	Radio Nederland	with 'Newline' in EE.	JG
11720	0830	CHINA	Radio Peking	very strong with EE news.	JB
11760	0405	GREECE	Voice of Greece	poor with Greek programme under Radio Habana.	DH
11765	1820	BANGLADESH	Dacca General Overseas Service	in EE to Europe with news mixing with the Deutsche Welle. Blocked by 1840.	JB
11765	0900	PHILIPPINES	FEBC Manila	in EE with 'Back to the Bible' at fair level.	JB
11785	0950	BRAZIL	Radio Guaiba	good level with Portuguese commentary.	LM
11795	0200	MALTA	Deutsche Welle	poor level in German beamed to North America.	DH
11805	1015	BRAZIL	Radio Globo	with Portuguese jingles and advts at good level.	LM
11810	0830	ITALY	RAI Rome	fair at sign on in EE to Australia and New Zealand.	JB
11815	1000	BRAZIL	Radio Brasil Central	with Portuguese commentary and ID.	LM
11825	0745	TAHITI	Papeete	very good with a programme of Tahitian music.	DH
11830*	0725	LIBERIA	ELWA Monrovia	weak signals at this time in EE.	AW
11830	2030	SPAIN	Spanish Foreign Radio	very strong in SS.	JB
11835	0930	URUGUAY	Radio El Espectador	with SS ID and news. 0940 hora musical. Tuning signal and ID 'Radio El Espectador numero uno Uruguay'.	LM
11840	0901	GUAM	KTWR Agaña	very good in EE with prgm celebrating 25 years of TWR. Also, at 0830 KTWR very good with religious prgm in EE. JG. Strong 1015.	DM
11860	2115	LIBERIA	ELWA Monrovia	fair in EE with gospel programme. QRM from VOFC and South Korea.	JB
11890	1900	AFGHANISTAN	Radio Afghanistan, Kabul	with EE news, new frequency fair with service to Europe // 15140.	LM
11900*	0901	ECUADOR	HCJB Quito	in EE with 'DX Partyline', very good.	GW
11935	0730	HOLLAND	Radio Nederland Lopik	very good with programme in Dutch.	DH
11985	1900	AFGHANISTAN	Radio Afghanistan, Kabul	opens in EE, but now on 11890.	AC
12035	1530	VIETNAM	Voice of Vietnam	excellent in EE with 'Mailbag' programme.	DH
12060*	1803	USSR	Radio Moscow	with news and 'Roundabout' in EE. JG. Excellent 2033.	GW
15110*	2301	INDIA	AIR in EE 9/2	with news and ID 2304. 2310 commentary very good, over slight QRM. DEM. Sports talk in EE 2320.	AW*
15110*	2245	USA	WYFR in EE 9/2	on new frequency ex 9690. 2251 ID & address, s/off 2252. // 11720. Very good level.	DEM
15140	1859	AFGHANISTAN	Radio Afghanistan, Kabul	with interval signal & EE ID with transmission to Europe. LM. 1900 EE broadcast to Europe.	AC
15120*	1059	SRI LANKA	AWR/RMI	with EE DX prgm 11/2. ID 1059 with very good signals.	DEM
15185	2225	USA	WINE Red Lion	good with religious programme.	DM
15185	0643	NIGERIA	Voice of Nigeria Lagos	good in EE. DM Hrd 0800-0835 s/off in // to 15120. Clear reception, but blocked by Moscow earlier.	JA
15185	2300	SRI LANKA	VOA Colombo	very good at this time with 'Breakfast Show' prgm.	JA



FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	17 INITS
15200	1400	INDONESIA	Voice of Indonesia, interval signal, EE ID and into news, then beautiful Indonesian music. Very good although some frequency drift, in // to 11790 with fair signals.		LM
15235	0658	HOLLAND	Radio Nederland in EE with 'Newslines'.		JG
15235	1812	SWITZERLAND	Swiss Radio International, Berne with news & commentary in EE.		JG
15260*	0530	FRANCE	Radio France Internationale Paris with FF magazine.		AW
15285	1715	BELGIUM	ORU Brussels in EE to Africa on this new frequency.		AC
15285	0625	SOUTH AFRICA	SABC Springbok Radio with pops and commercials extracted from horrendous splatter from 15290 Radio Liberty. Heard 8/2 only.		BC
15295	0029	ECUADOR	HCJB Quito in Portuguese poor with religious programme.		DM
15300	1706	FRANCE	Radio France Internationale, Paris very good in EE to Africa.		JG
15310	1800	MALAYSIA	BBC Tebrau with World Service in EE to 1830 sign off.		JB
15310*	0200	AUSTRALIA	RA in EE 14/2 with ID very good to 0259 s/off. NHK on frequency immediately after RA sign off.		DEM
15325	1900	CANADA	Radio Canada International very strong in EE.		JB
15340*	0005	CUBA	Radio Habana in SS to the Americas 14/2 with news at very good level.		DEM
15345	1930	KUWAIT	Radio Kuwait very good in EE with 'Its Your Choice'. New frequency.		LM
15345	1200	ROUMANIA	Radio Bucharest good signal in EE mixing with Greece.		DH
15365	0530	ROUMANIA	Radio Bucharest very good in EE to Africa with DX programme.		DH
15400*	0914	ASCENSION ISLAND	BBC World Service fair in EE.		GW
15405	0409	SEYCHELLES	PEBA poor in unknown language at this time. <u>DM</u> (Probably AA -ed).		
15430	2305	MEXICO	XERMX Radio Mexico good in SS after AFRTS vacates frequency.		LM
15450*	2331	PHILIPPINES	FEBC in EE 13/2 with news and 2340 'Good Morning Asia'. V/good.		DEM
15510*	1032	USSR	Radio Moscow World Service in EE 2/2 at very good level, with talk.		DEM
15540*	1204	ISRAEL	IBA Jerusalem with EE prgm 12/2, 1227 advts and news 1229. 1230 into FF. Very good signals.		DEM
17725*	0547	AUSTRALIA	Radio Australia fair in EE.		GW
17735	1711	FRANCE	Radio France Internationale, Paris strong with 'Paris Calling Africa'		JB
17740	0645	EAST GERMANY	Radio Berlin International in EE to the Far East.		AC
17745	1715	BELGIUM	ORU Brussels in EE to Africa on this new frequency. <u>AC</u> . 1722 Brussels in EE to Africa ex 17740 // 15285 ex 11940. Good signal.		JB
17765	0240	MEXICO	XERMX Radio Mexico with SS commentary. QRM from AFRTS.		LM
17810	1930	NETHERLAND	ANTILLES RN Bonaire strong at s/on in FF. JB. 2030 'Happy Station' very good level.		JG
17830*	0240	PAKISTAN	Radio Pakistan with dictation news in EE to sign off 0245. V/good.		DEM
17845	1949	USA	WYFR with 'Mailbag' programme in EE at good level.		JG
17865	1919	ECUADOR	HCJB Quito good in EE with 'Encounter' programme.		JG
21480	1915	ECUADOR	HCJB Quito very good in EE with 'Passport'.		JG
21495	0500	ISRAEL	IBA Jerusalem EE news good // 11665, 11638 and 9833.		JB
21535	0605	SOUTH AFRICA	Radio RSA Johannesburg strong with bulletin of EE news.		JB
21545	0500	KUWAIT	Radio Kuwait new frequency for EE programme, good with EE pops and news. <u>PO</u> . Very good level in EE 0600 with popular music. <u>BY</u> . Very good on new frequency ex 17820 to 0800 sign off. LM. <u>AC</u> . Very good with travel prgm 0639. JG. News and weather 0530-0535 at very good strength.		DEM*
21560*	0750	WEST GERMANY	DW Julich in EE with DX programme.		AW
21580	1712	FRANCE	RFI, Paris with 'Paris Calling Africa' in EE.		JG
21590*	0444	PAKISTAN	Radio Pakistan fair in EE.		GW
21615	1400	SWEDEN	Radio Sweden Stockholm in EE mixing with Radio Moscow.		AC
21690*	1111	SWEDEN	Radio Sweden Stockholm good in EE.		GW
21715	0900	AUSTRIA	Vienna fair at sign on. Severe QRM from Pakistan 21716 from 1000.		BC
22145*	0930	CHINA	Radio Peking here with EE news.		AW
22205	0925	USSR	Russian presumably the one here with typical RR music. Very good level.		JA
23300	0930	CHINA	Radio Peking presumed the one here with Chinese 'chatter'.		JA
24200*	0945	UNID	Chinese at this time, also on 24395 in Chinese with classical music.		AW
25605	0530	ISRAEL	IBA Jerusalem with Russian transmission but suffers jamming.		AC
25615*	0930	FRANCE	Radio France Internationale, Paris with ID 'Ici Paris Radio France Corporation .....'		AW
25685*	0810	UNID	with mention of 'Radio Svoboda'. (Sounds like a Liberty ID Alex -ed)		
25990*	2227	USA	VOA Delano good in English.		GW

**BROUGHT TO YOU BY:** PO Paul Ormandy BC Bryan Clark BY Bill Yannix LM Leigh Morris  
AC Arthur Cushen DM David Munn JG Jim Gorman DW Dave Webber JB Jim Benzoni JA  
John Allchin DH David Hughes. Also thanks to our Australian contributors AW Alex Wellner  
GW Grantley Williams & DEM Don Mitchell. Be sure & let us know what you've been hearing!

A couple of Mailbag contributions to hand. DAVID MUNN of Hamilton has sent a few reports out recently, and has verified Tanzania 4785, Veritas 17710, KTWR 17855, UN 9565, Egypt 9475, FEBC 21515, VOA 26095 and Lagos 4990. Nice going David. Thanks.

JIM BENZONI Hamilton, has reported 15 and QSL'd ATR 9912, REE 9630, IBA 9833 & FEBC 9715. Thanks Jim, I think we're up to date now!

Until next month, 73 & Good DX. John Allchin

EAST CAPE "BANDWATCH" - Stations heard by Tony Marr (Drake R4B), Barry Williams (Drake R4A), Bryan Clark (Drake SPR4), Dene Lynneberg (Eddystone 680X), Jack Searle (Yaesu FRG7000) and Ray Babbage (Yaesu FRG7) on a DXpedition to Te Araroa - interim report covering period 3-7 March.

- 3260 Niger surely the one in dialect, changing to FF 1800. 6030 Uganda Home Service good-very good in EE with mx prgms till left the air 1802. First hrd 1720.  
3288 Tananarive Malagasy fair in dialect 1745. 6204m Unid here around 0500 daily. Not Libya 6206.  
3330 Ondas del Huallaga fair 0535 to 0730. 7130 Malawi with EE Nx 1600, followed by "Music from Malawi". Id 1630 for 'International Svce of MBC' then Chichewa. Nx 1700. Off 1715. Signal varying from poor to good.  
3339 Radio Tanzania Zanzibar suspected the weak mx & anncs in Swahili 1735. 11464.5 On tip from John Campbell we checked for Radio Condor/Irish Broadcasting Corp, an 80w pirate broadcasting from near Dublin. Sked Sundays 1430-1700 but no trace, though we did detect a weak unidentified carrier at times.  
3366 Accra Ghana poor with mx prgm 0621. 15105 Radio Grenada in EE 2035. Fair signals.  
3380 Malawi hrd one day fair in dialect 1745. 15185 Nigeria hrd in EE 0700 to s/off 0835.  
3970 Buea Cameroons with EE Nx 1735 poor to good. 15190 Radio Inconfidencia Brazil id 0114 poor only.  
4770 ELWA Monrovia fair signals 0610. 15225 Tunisia in AA fair, 2010.  
4780 Djibouti in clear 1800 one morning with rx in Afar. Fair signal. Still hrd 1840 but with QRM. 15273 SODRE Uruguay s/off Sunday 0159 but to 0300 weekdays. Good steady signal some days.  
4790 TWR Swaziland fair with hymns 1750. 15290 R.EL Mundo Argentina fair in SS 0109.  
4750 Bertoua Cameroons 0540. EE Nx 0612. Poor-fair. 21460 HCJB on this freq ex 21480 in GG to 1900 then EE prgms. Fair-good, improving to past 2100.  
4800 Lesotho best ever hrd (transmitter improved?) 4/3 with talk in dialect, EE pops 1848. F/out 1917. 21465 Israel exc signal with relay of HS on this new freq 0413, //21575 & 21675 also new. EE 0500.  
4815 Upper Volta fair with FF & local mx 0609. 21580 Radio Liberty new freq in RR 1206. Gd but jammed.  
4820 Paz y Bien Ecuador 0914 fair in SS popular songs. 21590 Austria exc new freq in EE 0835. //21555 is fair.  
4825 Mali poor, indig. mx 0611. Fair in FF 1820. 21660 BBC Ascension Relay vg new freq w/W .S. news.  
4835 SABC EE Service fair 1735-1835 Dance music. 21747m Pakistan new freq with FF 1915-2030. Gd w/het.  
4845 Mauritania vg with chants 0628. Botswana? 1715. 25620 AFRTS Dixon vg 2300. S/off 0400. New frequency.  
4853 Sanaa Yemen fair to good 1900 in AA. 25880 VOA Bethany vg in PP to s/off 1830 // new 21680.  
4855 Mozambique good with PP Nx 1800. Sites for last 2 courtesy Glenn Hauser RCI.  
4865 Mozambique vernacs fair/good 1815. Weak 4925 possibly in // to past 1840.  
4890 Senegal fair with Koran 0615. FF 0702.  
4880 SABC Afrikaans Service hrd 1730. //3955.  
4910 Conakry poor 0652 with African music.  
4870 Cotonou Benin hrd 0500. Nx in FF 0547.  
4926 Equatorial Guinea local mx 0505 to 0630 peaking very good one day only. Only 1 annc't!  
4936.5 Mozambique with pop songs 1817. Chimes & PP anncs 1830.  
4940 Ivory Coast fair-good in FF 0617.  
4945 Radio Colosal f/in daily around 0420. Exc by 0530.  
4950 Kenya hrd 1715 till f/out 1900 one day. 4934 and 4915 heard on most days.  
5010 Garoua Cameroons 0525. EE news 0610.  
5020 Niger poor with African music 0620.  
5025 Radio Splendit vg 0455. S/off with anthem 0509.  
5045 Cook Islands fading in 0500. Fair by 0512.  
5047 Lome Togo good with indigenous chants 1814.

GLENN HAUSER'S DX REPORT OVER RCI CANADA

Some recent items: MEXICO Radio Educacion 6185 is new, hrd to s/off 0700 Sun. Is successor to La Voz del Maestro. Hrd by Behr, Walcutt & Hauser. HOLLAND Dick Speekman has been replaced by Frits Graveling as host for "DX Jukebox". IRAN NIRT has been renamed Voice of Revolution. BULGARIA Sofia has EE on 9765 ex 7115 at 0430 GMT (Hauser). ANGOLA 7001 in PP at 0500 believed to be at Lobito.

## ARTHUR CUSHEN'S SHORTWAVE REVIEW

March 4, saw many frequency changes with the new M schedule in operation while the increasing high frequency usage became further apparent with the Voice of America now using five frequencies in the 11 metre band. Both Afghanistan and Vatican have been testing on new frequencies in order to find a better channel while there is interesting evening reception from stations in Brazil. The information in this broadcast was first carried on Radio New Zealand medium and shortwave on Sunday March 4, at 1015GMT. All times GMT, 12 hours behind NZST and frequencies in kHz.

Afghanistan: Kabul has made a further frequency change for its English broadcast to Europe 1900-1930GMT. 11890 and 15140kHz are now used with 15140 giving the best reception. 11890kHz was moved from 11985 and suffers from jamming, while 15140 replaced 15295kHz.

Australia: On March 4 Radio Australia is to use 6080kHz in place of 6120kHz 1030-2030GMT.

Brazil: 31 metre band signals are good around 0900 and the two best signals are on 9645 and 9675kHz.

Canada: Radio Canada International to North America and the South Pacific has replaced 9755 with 9605kHz. The English broadcasts are 0200-0227 on 5960, 9535; 0300-0327 5960, 9535, 9605 and 11845; 0400-0427 5960 and 9535kHz.

Finland: Finish International Radio has a new programme the World of Radio on Sun/av Best each fortnight. The programme on March 11 is devoted to longwave and March 25 to mediumwave. Finland broadcasts to Australia and New Zealand on 21495 0800-0930GMT.

Germany: RBI Berlin 9535kHz heard in English 0330-0415 and then German 0415-0500GMT to North America 9535kHz not announced and mixed with Radio Canada up to 0427GMT.

Great Britain: Changes in the BBC World Service to Australasia include adding 6195, 0900-0915 from Antigua; 9510 0600-0915 from Antigua; 11955 2200 from Singapore and the dropping of 15310 Masara at 0900.

Hungary: Radio Budapest in English to the Pacific is using 7200, 9585, 9833, 11910, 15160, 15220 from 1030-1100GMT.

Korea: Seoul heard testing to the Middle East on 6240kHz 1600-1930GMT. Programme is of popular music with announcements in Korean each ten minutes. The station closes abruptly at 1930GMT without playing the anthem.

Kuwait: The English broadcast is noted on 21545kHz 0500-0800GMT with very good signals including news at 0530GMT.

New Zealand: The Shortwave Service of Radio New Zealand from March 3 when New Zealand returns to standard time 12 hours ahead of GMT, broadcasts will be as follows: 6105kHz to the Pacific 0640-1215GMT; 11960 1800-2105; 15345 1800-0630; 17770 2115-0815; to Australia 6105 0830-1215GMT.

Norway: Oslo has made some frequency changes and the two best transmissions heard in this area are 0700-0830 now on 9590, 15135 and 17825kHz and 1100-1230GMT on 17755 and 21730kHz. English is broadcast for the last 30 minutes on Sundays only.

South Africa: RSA heard on 9585kHz opening at 0427GMT in Lozi also the programme carried on 11900. 15285 the Springbok Radio heard opening at 0625 with fair signal but side jamming. (Bryan Clark).\*

Sweden: Radio Sweden has not changed its frequencies to the Pacific from March 4 and will use 21550kHz 0630-0830GMT in single sideband with a relay of the Swedish Home Programme and 21690 in English 1100-1130 daily.

U.S.A.: VOA using 11 metres GR 25880 1545-1830 and DX with a AFRS programme 2100-0500.

Vatican: 2210-2225 has used 11725, 11855 but now on 11745 in English.

# ..sign off..

KUWAIT The English broadcast from Radio Kuwait, 1800-2100GMT, is now transmitted on 15345 instead of 12085kHz.

VATICAN STATE Vatican Radio to Aust/NZ EE 2210 NF 11745 //9615,15120.

KUWAIT Radio Kuwait. A further frequency change. EE 0530 21545 replaces 17820.

BULGARIA Radio Sofia EE to North America 0430-0500 NF 9765, replaces 7115. John Mainland

LIBYA Tripoli. Domestic service, AA: 1100-1500 on 17800, 15300, 11600, 9500 and from 1500-1615 on 11700, 11600, 9650, 9500. The Voice of the Arab Homeland external service in AA is from 1700-2200 on 11700, 9650, 7200, 6100.

MONGOLIA Ulan Bator. External service EE 1220-1250 (not Sunday) 6385, 1715-1745 (not Sunday) 6385.

LAOS National Radio of Laos announced that, in response to listeners' requests, programmes in Lao Soung would be switched from the external service to the domestic radio network from 5th February. A programme schedule broadcast by the National Radio of Laos on 1st February indicated that Lao Soung broadcasts would be transmitted from 0330-0400, 1230-1300 and 2300-2330 on 6130 and 640kHz. BBC MS

HUNGARY Radio Budapest EE: 1030-1100 15220, 15160, 11910, 9833, 9585, 7200; 1200-1220 (Mon-Fri) 15160, 11910, 9833, 9585, 7155, 6110; 1430-1500 (Mon-Fri) 15160, 11910, 9833, 9585, 7200, 6110, 6025, 5980; 0200-0230 (Tues-Sun) 15220, 11910, 9833, 9585, 6105, 6000; 0300-0330 15220, 11910, 9833, 9585, 6105, 6000; DX programme 1515-1530 (Tues, Fri) 9833, 9585, 7215, 6110, 6025, 5980; 0400-0415 (Wed, Sat) 15220, 11910, 9833, 9585, 6105, 6040.

sked via Radio Budapest

MAURITANIA Anyone who wishes to QSL R. Mauritania can send their reports to: Mohamed Lemine Saleh, B.P. 1024 Nouakchott, Mauritania. No IRCs required. SCDX

SWEDEN Frequency change for R. Sweden effective March 1, EE 1230-1300 to East Asia 15130.

SOUTH KOREA Korean Broadcasting System (KBS) in Seoul is testing to the Middle East from 1600-1930 on 6240kHz. The programme consists of music interspersed with anncts in Korean. BBC MS

AFGHANISTAN Radio Afghanistan external service in EE 1900-1930 is broadcast on 11985 and 15295. BBC MS

TUNISIA Tunis. Domestic Service, Arabic 0430-2330 on 15225, 11970 and 7225. BBC MS

NORWAY Radio Norway sked March 4-May 5 1979: 0700-0830 9590, 15135, 17825; 1100-1230 6015, 17755, 21730; 1300-1430 9590, 17840, 21730; 1500-1630 15345, 17755, 21655, 21730; 1700-1830 15345, 17755, 21730; 1900-2030 11850, 15175, 21730; 2100-2230 11860, 15175, 17795; 2300-0030 9645, 11850, 15135; 0100-0230 6180, 9645, 9550; 0300-0430 6180, 9645, 9550; 0500-0630 9645, 11850, 15175. English is broadcast during the last ½ hour of each transmission Sunday/Monday 0800-0830 thru 0600-0630.

via Radio Norway

CANADA CFRX 6070 Ikw is due to be closed down in September this year.

Canadian Monitoring See via SCDX.

CKFX 6080 Iow has overhauled its transmitter and antenna, the station has been heard throughout the USA and even northern Norway. SCDX 13/2

GUYANA The government has acquired Radio Demarara, a subsidiary of Britain's Rediffusion Ltd, and a committee has been set up to formulate the national broadcasting structure within which Radio Demarara and the Guyana Broadcasting See already state owned, could operate most effectively. via Theo Donnelly

EAST GERMANY Radio Berlin International is issuing special four-part QSL cards in honour of the 30th anniversary of the founding of the German Democratic Rep. Placed together these four individual cards will make up a map of the GDR. To acquire this unique edition all you have to do is to send in four reception reports on our programmes during the period May 1st and October 7, 1979. Mark your four reports "DDR 30" and individually with the series number 1, 2, 3, 4. David Osborne, per RBI Journal

MEXICO Radio Mexico plans to introduce English transmissions within 3 months. Dec SPEEDX via Steve Webster, in FRENDX

MONACO TWR plans to raise power of two 100kW transmitters to 500kW. July 1978 WWDXC, FRENDX

DENMARK Radio Denmark, Danish schedule on new 17735, replaces 15165 as follows: Far East and Australia 1200-1255; to the Mediterranean and Africa 1830-1925; to South America 1930-2025.

Mogens Jensen, Erik Koie, Denmark in SCDX.

AUSTRIA From March 4 Vienna will use 21590 0700-0900 instead of 17720, to Australia and New Zealand, EE 0830-0900. via Austrian Radio