



# NEW ZEALAND DX TIMES

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MARCH 1977

## CONVENTION SPECIALS 8-10 APRIL

To coincide with Convention 77, to be held at Christchurch during Easter weekend, a variety of special calls and programmes from broadcasters throughout the world is being arranged. Many are still subject to confirmation, but for those of us who are unable to join the Conventioneers, here's your chance to tune in to some of the stations which will feature on their schedule: On shortwave, Radio Nacional de Brasilia will greet the League during their 2100 English service on either Saturday or Sunday morning NZT. Frequency is 11780 kHz (alternatively 15245). Radio Bucharest, Roumania should be checked during their DX programme at 1930 & 2100 GMT Friday (Saturday morning NZT) and 0130, 0400 GMT Saturday. Frequencies for the Saturday transmissions are 5990, 6190, 9570 and 11940kHz. Radio Tashkent will salute the Convention during the 1200 GMT transmission in English. Look for them on 6025, 5975, 9540 and 9600kHz. Radio RSA and Radio Prague are expected to include greetings during their DX programmes which fall over the Easter weekend. Finally on SW, there is hope for a special programme originating from the Falkland Islands Broadcasting Service - 2385kHz (plu. 536kHz ECB). Regretably, final confirmation of timing has not yet come to hand for this plum! On medium wave, calls from WWL New Orleans 870kHz and VL2NI Norfolk Island 1570kHz are being arranged. KAHU 940 in Hawaii will be the target at 1500 GMT on Saturday (Sunday morning NZT). John Allchin of Auckland is contributing to the programme by way of a special call arranged from 2UW Sydney 1110kHz around 0930 GMT Sunday, and tentatively from 2GZ Orange NSW 990kHz at 1000 GMT Friday. Lastly but by no means least, Radio Lord Howe Island 1490kHz with 40 watts will run past it's scheduled 0800 GMT closedown on Sunday 10 April with a special programme for Convention. Their output may be higher than 40w, as they were hoping to have a more powerful transmitter and improved aerial system in operation by this month. Usual schedule for Radio LHI is weekdays 2000-2400 and 0500-0700 GMT, Saturday 2000-0100, Sunday 2000-2200 and 0700-0800. Their address is c/- Post Office, Lord Howe Island, NSW 2898. Return postage is necessary, as the station is totally voluntary in operation.

The ARDXC will also have a Convention over Easter, in Melbourne. To mark the event, the club is issuing a commemorative QSL card for all reception reports of the "DXers Calling" programme broadcast over Radio Australia on that particular weekend. This will be aired at 2040 GMT Saturday 9 April (Sunday morning NZT), and Sunday 10 April at 0240 and 0840. Reports must be addressed to DXers Calling, Radio Australia, Box 428G, GPO Melbourne 3001, Australia. Correct reports will receive the special ARDXC card as well as an RA QSL.

CLOSING DATE FOR APRIL  
IS MONDAY 28 MARCH 5pm  
Please note earlier  
closing to enable dis-  
patch of the Times to  
be completed by Easter  
SEND DETAILS OF YOUR  
DX, LADDER TOTALS, etc  
TO BOX 2956, WELLINGTON

### MILESTONE

With the February DX Times, our circulation hit 400 for the first time. The League now has 316 members in NZ and 84 overseas, some 40 of those in Aussie! By comparison, the Australian Radio DX Club has 191 members, the Adelaide-based Southern Cross DX Club 82. The NZDXRA is understood to have around 60 members but no official statistics are available.

## FROM THE BRANCHES

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SOUTHLAND The February meeting was held at Paul Aronsen's with 12 present. With the departure of Branch President Neville Henry and Arthur Williams for a year overseas on 5 April, a new President will be elected at the 22 March meeting at Arthur Cushen's. Charlie Chester has replaced Arthur Williams as Branch Stationery Secretary. Discussion included the Tiwai weekend 11-13th March. Competitions: Broadcast Eric McIntosh Italy 1449, Merv Branks KTRH 740, merit Sutton Burtenshaw Iran 605. SW Arthur Cushen FEBA 15280 & Paul Aronsen Ghana 4980.

OTAGO The February meeting was held at Ian Rush's on the 25th, and was followed by an all-night session of DX on medium wave. The next meeting will be held at Ash Nallawalla's, Flat 2, 60 Royal Terrace, at 7pm on 19 March. All enquiries to Ian Rush, telephone 43-027 evenings.

CANTERBURY A good turnout of 11 attended the February meeting at Bob Boundy's, and a special welcome was extended to Brent Allred of Motueka and Chris Mackerell of Nelson. Discussion covered DX Times publication and the DX articles soon to appear in Christchurch suburban newspapers. Competitions won by Austin Hadler, with RSA 11800 and Radio Nederland 6025. The next meeting will be held on Wednesday 23 March at 7.30pm, at Andrew White's, 321 Withells Rd, Avonhead. This is an important meeting, being the last before Convention, so everyone is requested to make a special effort to attend. Organisation of Convention 77 is progressing well. Former or non-active League members who may wish to participate in the meal and movie evening on Saturday 9 April, should contact David Ricquish (888-312) or Austin Hadler (843-583). Remember: when you read this, Convention 77 - Christchurch, will be only 3 weeks away!

WELLINGTON The February meeting was held at Quartz Hill on the 25th, with 11 present, including prospective member Bob McGuigan, and Des Vinten. Discussion centred around the planned reception for Keith Glover of Radio Australia in Wellington in April. Following business, Alan Hay, Station Superintendent explained and demonstrated a new Racal 1772 communications receiver, costing \$18,000. Competitions: SW Senior - Cecil Symmes Kiev 15100, SW Junior - Paul Edwards DW Kigali 21540 & Uganda 6030. Broadcast to Paul Edwards with KELI 1430, Iran 1188 and 4XB Queenstown 1270, latter tied with Trevor Phillips 2XA Wellington 1260. The next meeting will be held at Bruce Williams's, 82 Pirie Street, Mt Victoria on Friday 25 March, at 8.00pm.

WAIKATO-BAY OF PLENTY The next branch meeting is scheduled for Saturday 29 March at 6 Clouston Crescent, Rotorua. Ring Secretary Colin Campbell 81161 for further details. The branch was much saddened by the loss of Stan Larking's wife, and was represented at the funeral by Colin Campbell. The Branch is unable to be represented at Convention 77, but wishes all those who attend a most successful occasion. Participation in another Sport & Recreation Display is being considered. David Feldon and Stan Larking now have FROG's, so future DX prospects look good. Another member Bob Harman has now recovered from his fractured leg.

### Keith Glover

Wellington Branch is planning an informal get-together to welcome Radio Australia personality Keith Glover and his wife, during their brief visit to the capital in the second half of April. Members in the region who'd like to meet Keith are requested to telephone Bruce Williams, 859-121 evenings, no later than 25 March. Those who indicate interest will receive further details once date and venue are finalised. Ring Bruce now!

### LONG WAVE DXING

The first report of DX on the LW band (150-285kHz) received by the Times in quite a number of years, has come from Arthur Kindell of Levin. Arthur reports that a number of stations are now being heard, including Russians and a few others, as yet unidentified. The best is on 155kHz at 1830GMT.

SEYCHELLES ON BROADCAST: In a late report, Robin Chambers of Opunake advises reception of Seychelles in FF on 1331kHz between 1700-1720, using a beverage antenna to the East to knock out JOSF on 1330.

# BROADCAST DX with Bryan Clark

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Plenty of news this month, with conditions good for some of us, and not so good for others. Undoubtedly the highlights are the great catches being made at the Southland Branch DX site at Tiwai, near Bluff. Cayman Islands 1555 is providing regular reception for the Soutlanders from sign-on just before 1100 GMT. No such luck here in the capital though, DYLA is always there! Some fine W's from the Eastern USA are included in our Trail, plus a wide range of catches thru the Caribbean, Central and South America. Tentative reception of St Pierre et Miquelon 1375 really has them excited down Invercargill way too!

Our Australian friends are showing that they're just as well placed for the good DX these days too. League members Chris Martin, Harry Weatherley, Ernie Moore, Sam Dellit and John Campbell rendezvoused at Sawtell, on the Pacific Coast, north of Sydney for MW DX away from all the TVI and power noise. Their logs include quite a number of firsts for Aussie, including Lord Howe Island. Hope you bring some of those catches to Convention!

Not everything goes right. In response to his report for Diego Garcia 1475kHz, Neville Henry has received a letter from the station suggesting that he was listening to KBOX Texas 1480! Needless to say, Neville has written back pointing out that this would be impossible at his time of reception, 1900 GMT.

For those of us not hearing much from the Americas, there's plenty of activity on the band across the Tasman. Try for these: 3LK 1090 now has the call 3WM standing for Wimmera/Mellee, but still transmitting from Lubeck; 2FG Fingal on 1160 is on the air; 6PM is on 990kHz ex 1000; 4MK has moved to 1030 from 1380. Info per RCR & MB. Ash Nallawalla recently visited 2CA Canberra 1050 and was told by their Chief Engineer that no reports have been received from NZ since they boosted power to 5kw and changed to a N-S directional antenna. Thus, they interested in reports and return postage is not necessary. Ash says 'ask for the station's attractive "I'm a Licensed Listener" sticker'.

Phil Brooks of Wanganui is another to take the DXpedition trail. Accompanied by Stan Larking, he recently DXed from Kohi Point, a trig station overlooking Whakatane and Ohope. Even on a small transistor, North American stations were more prominent on the band than NZers. Phil also called on 1XX and confirms that the Murapara relay is synchronised with the Whakatane station on 1240.

And so it's finally to the University stations. 1XB Bosom, 2XA Active and 3XB Radio U are all reported heard quite widely. Not so the Waikato University's station on 1450. To date (9 March), it appears that Radio Nyllewell has not been on the air. Originally licensed 28 February-6 March, the transmitter was without a crystal on the scheduled start-date, and an application was to be made for the station to operate 4 March-13 March, following expected solving of the technical difficulties. Broadcast hours were to be 5pm-10pm Monday to Friday, 10am-1pm Saturday/Sunday, and the address for reports c/- Student Union, University of Waikato, Hamilton. Oh yes, that name had us all fooled - it's the surname of the University's Vice Chancellor spelt backwards (Llewellyn). More news elsewhere this issue, if it comes to hand. Info from Jim Benzoni. Wellington's 2XA Radio Active 1260kHz has proved a most successful operation, with reports from Invercargill in the south to Rotorua in the North. We hope to have comment on the reception reports received at 2XA next month. If you missed them this time, don't despair. They hope to be on air again in August.

A lot of mail, so let's get on with it....

JACK SEARLE Haumoana received the first QSL from 2ZK Apple Radio. Currently on half-power 2½kw!

JOHN ALLCHIN Auckland has one out to VSZ1 Tarawa 844, and varies from KIOE (first report on their new tower), KFAB, KGMB, KORL, XEPRS, Vladivostok 1250, Singapore 790, 2ZK & Fiji 1320. Tx for news John.

PHIL BROOKS Wanganui has QSLs from 3XG & XERF (12½ mths). Logged at home WBZ, 3XG, 2XA. At Ohope: KTSA, WBAP and 2ZK. A QSL from 2ZK too. Tx Phil.

## BEST OF THE MONTH

### FEBRUARY

Senior: Ray Crawford  
HJQD Relej 1550 1kw 155pts

Junior: Paul Rawdon  
KTOM Calif. 1380 5kw 101pts

### MARCH

Senior: Bryan Clark  
WFBC Sth Carolina 1330kHz  
5kw 137 points.



ROSS CLARK, now residing on a 10 acre block at Kumeu, looks forward to better DX in future. QSLs from 1XA, XI, 2B 2ZB, 2M, 3ZB.

SUTTON BURTENSHAW Invercargill has a tentative logging of St Pierre et Miquelen 1375, plus reports away to 4MK 1030, KGAR 1550, KTNQ & Caymans 1555. QSLs in from 4XB 1270, Iran 606. Tai

ASH NALLAWALLA Dunedin has verified 4XB, Windy, 3CR, 2CO. Logged in Australia: 3LO, AR. At home: 2MG, BS, PK, ST, 4MK, 7ZR. See you at Convention.

ALAN GILMOUR Greymouth advises report -s away to KING, HLKX, KIOE, KICY. Last one a good catch Alan. That's the sort of reception we like to see in the Broadcast Trail.

DUNCAN WATSON Edgecumbe has reports away to KNBR, Fiji 710, 1ZN, ZK, XI, 2KF, 4YQ. QSLs in from KTRH, 2ZK and KING with shirt transfer. Agree I spoke too soon about conditions!

JOHN CAMPBELL NSW has 29 reports from the Sawtell DXpedition and varies in from 4BU, Tuvalu 580. Receipts from a recent European trip are hobby pirates Tomcat Radio 1330 & Centrale Radio Omroep 1322, both in Holland. Should have a bunk for you this time!

PAUL EDWARDS Wellington has a very cooperative postman viz QSLs from KOGO, KABL, VQO, 1XI, WWL, 4XB, KABC, KOA, KIRO, KOMO, KELI, KEX. Reports to Monaco 1466, KGA, KTNQ, VL2NI, 1XB KNBR, Tahiti 740, 2XA Active, 3XB, Nice 1554, RMC Cyprus 1232. Good!

ANDREW WHITE Christchurch reports 1XA 1ZU, 2ZK, 2XA, 3XB, DYLA. Varies from 1XA, 2ZK and 2XA.

DAVID FELDON Rotorua has rested from study to log 2ZK and 2XA. Varies in from 3XG Rhema and 2XA. Good luck with exams, then get yr FRoG croaking!

ARTHUR CUSHEN Invercargill has reported Caymans 1555, 3XB, 2XA, and at Tiwai WXVI 1600. QSLs from RRI Jember 963 & 4XB. Thanks Arthur.

STEPHEN LILLIS Auckland's Sanyo transistor has been busy with logs of KNQ (KTNQ Stephen?), KFRE, KHVH, KNEW, PJB 800, KORL, KSL, KGMB, KTWO, KIOE. A lone QSL from 3AW. Good work Stephen.

BRYAN CLARK Wellington has a loner to 2XA Active 1260, but survives on QSLs from Dominica 595, WFBC 1330 (state 32), 2XA and 2ZK.

BRUCE CAVANAGH In'gill QSLs JOUB, 4XB.

4 RAY CRAWFORD Invercargill must be our most active contributor this month - Reports out to: WRR 1310, 7FG, 6PM 990, 3WM 1090, 4MK, KTNQ, KBOX 1480, KGAR 1550, Cayaman 1555, XERP 1360, St Pierre 1375, Rey 1450, Galeon 1450 Reloj 1360, TIRS 975, Novosibirsk 1367, RRI Pontianak 1233, Surakarta 974, Mataram 855, Medan 855 tent. Varies from 4XB, 3EA, 4AM, Austria 1025, Italy 1115, 1578, Galei Zahal 1286. DX is certainly alive & well at Tiwai Ray!! 2XA Active also reported.

DENE LYNNEBERG Wellington has reports away to CKFH 1430, KMPS, KTNQ, 2XA, Radio U 1230. Varies in: 2ZK, 4XB, 2XA.

IAN CATTERMOLE Blenheim has been rewarded with replies from 2FC, 3WV, AR, JOIR, CFRN, KOMO, KGHL. Reports to 2FC, NU, ZK, BA, GN, 3AR, WV, YB, 4BH, WK, 5CL, 7ZL, CKNW, CFRN, CMW, WBZ, KRMG, WLW, KABC, KGHL (a good one Ian), KKIS, WBAP, KING, KATM, KRVN, KPAY, JOIR, JOER, JOSEF, Fiji 810, Vladivostok 1250

NORM MAGUIRE Hawaii is resting on his laurels with QSLs in from KIOE, KLEI, KDKO, KNWZ, KRKE, KPAR, KKIM, KUAT, KOPI, KISA, KOQT DX test, KDAZ, KRZY. See you at Convention Norm!

NEVILLE HENRY Invercargill, soon to travel to Britain & Europe for a year, has logged and verified RIAS 989, WSM, KVOO, Israel 1025, KOMA, Yugoslavia 1007, 4XB, Romania 1052. Reports out to WWL, WLW, KTSa, KTRH, KRMG, WIBR 1300, KFRC. A QSL in from DW Malta 1570 too. Bon voyage to you and Arthur! Let us have a report or two of yr impressions of the BCB as you travel around. 73.

TREVOR PHILLIPS Porirua has reports to 2UW, DYLA 1555 and 2XA 1260. QSLs in from 3XA, 2UW & 2XA. Thanks Trevor.

PAUL ORMANDY Oamaru has QSL'd KKIS, KEX, WCBS, KGA, KPOI, CKLG, KFAX, KTOM. Logs: Triyaya Sakti 1545, KEX, BED97, JOLF, 3MP, KUAM, JOUC, KMVI, 2XA.

CHRIS MARTIN Sydney's Mr BCB DX lives up to the reputation with reports to KCBS, KABL, KIRO, KUBA, KGO, KKON, KNUI, KNEW, KOXR, KKIS, WWWE, WHAM, KLIF, VOA Marathon 1180, Antigua Light-house 1165, HJFZ 1055, Rakiraki 1320, Lord Howe Island 1490, Iran 770, 1188, 1332, 1475, 1555, Oman 1035, Sharjah 1575 Austria 1475, Hungary 1178, 4MK 1380. QSLs from KLOK & 3MK. The results of a highly successful DXpedition!

DAVID RICQUISH Christchurch has logged 2XA, KIPA, KSTP, KGAR 1550, WOJK 1550, KCRG. Lone QSL from KCRG. C.U. Easter!



# BROADCAST TRAIL

EXPEDITION TO SAWTELL, NSW, AUSTRALIA 5

## MORNING

670 KBOI with ident 1440. MB  
750 KKL news 1435. MB  
855 RRI Mataran local id 1400. An-  
other under 1430, Medan? RC r  
940 China in EE 1330 Mondays RC r  
974 RRI surakarta exc 1230. RC r  
1060 CFCN Sports news 1440. MB  
1090 XEPRS in SS 1230. MB  
1232 RMC Cyprus FF Nx, lang lesson 1810  
1350 KSRO at 1430. MB /PE  
1424 DZDL good at 1400. RC r  
1466 Monte Carlo good in FF 1754. PE  
1546 Moscow int. sig 1759 good, then  
into Serbo Croatian. BC  
1554 Nice fair with FF talks 1750. PE  
1555 DYLA with rlg mx & nx 1230. At  
1315, facilities turned over to  
'South Seas Broadcasting Co'. TP  
1602 Munich strong 1748, orch mx. FE

## EVENING

550 KTSA fair 0745. PB  
600 ZK1ZC Cooks poor 0745. JA. 0700  
vg once JS RNZ Nx 0730, RA Nx  
0800, good & steady now. BC  
640 KFI over 4YW mxid Fiji 0845. JA  
700 WLW fair with news 0704. JS  
750 WSM o830 country & western mx. MB  
760 KGU while 1YA off 1130 6/2. JA  
800 PJB Exc 0900 from PP into SS. BC  
820 WBAP 0636. 4ZA non-existent! PB  
excellent signals 0719. JS  
844 Tarawa VSZ1 peaks vg 0945. JA  
850 KOA good 0720. JS very gd 0736. PB  
870 WWL mixed KAIM 0724. JS  
950 Belgrano News fair 0817. BC  
975 TIRS s/on 1000 fair-good. RC r  
980 KDFM with news 0805. MB  
990 Unid SS 0725. JS (XET or HJDB, Ed)  
1020 YVRS Margarita good 0830. BC  
1030 RCN frequent ids HJ-- 0835. BC  
1040 WHO good 0700. No sign 4ZB. PB  
1070 KNX over 1ZB 0706. PB  
1080 KSCO mixed others 0703. PB  
1120 KPNW best Mons with WVUV off  
1030. JA. 0900 Nx over local. JS  
1178 VOA Okinawa EE good 1130. RC r  
1233 RRI Pontianak vg 1258 id, nx. RC r  
1250 Unid Yank with CBS Nx 0900. RC r  
1252.3 Unid SS here 0800. RC r  
1260 KGIL, CFRN 0830 mixed another. RC r  
HJ-- Vallexico 0830 lately. RC r  
1265 Radio Paradise s/on 0900. MB  
1310 WRR over 1ZH 0830 with Nx. RC r  
1320 KXYZ and CHQM here 0900. RC r  
1330 XERP Mexicana always good 0800,  
Vigia Colombia later. RC r  
1360 KGB mxid KMO 0755, WSAI 0830 and  
KRYS Nx, wx 0900. MB  
Radio Reloj Colombia 0815. RC r

Using Drake SPR4's and 2 beverage an-  
tennae - 200m Northeast, 300m East.

545 Jumbo, Dominica poor in FF 1000.  
580 KMJ with Californian drought nx.  
585 RRI Surabaya with ident 1300 vg.  
590 CMW Cuba with anthem 0900 mx KGMB.  
595 Dominica fair 0940 gospel mx.  
620 Nuie over 3AR on late with Royal  
Tour 0904 in local language.  
KGW 'On the Line' good at 1410.  
725 Surinam with indo chants 0920 pr.  
730 XEX dominant 'La X' 0800.  
740 KCBS News Radio 1330, poor.  
750 KFQD Anchorage Weather fair 1610.  
790 KABC AI Radio News, good 1410.  
800 PJB Bonaire, dominant 0800.  
810 HJCY good s/on 1000 'Buenos Dias'  
XEFW fair 1310 mixed KGO, mx, SS.  
825 TIOS good, Latin melodies 0840.  
854 OAX4I good with Latin mx 1000.  
870 WWL atop 2GB with C&W 0920.  
910 KOXR on top in SS 1440.  
935 Carrier, no audio 0735. Morocco?  
960 KABL 'Beaut Mx' still good 1550.  
1034 Carrier, no audio 0720. Portugal?  
1040 WHO 'Action News' on top 0800.  
1055 HJFZ good 'Radio Centro' mx 0930.  
1100 WWW '3WE' NBC Nx good, clear 0800  
1130 KWKH mixed CKWX 1300.  
1165 Lighthouse Antigua good 1035.  
1180 WHAM cool jazz in clear 0730.  
VOA Marathon 'Yankee Doodle' 1130  
1188 TGT s/on 1158, hetting KEX.  
1190 KLIF News over KEX 1250.  
1205 Unid s/on 1100 with hymn & heavy  
voice - likely Cayman Island.  
1232 Morocco poor-fair FF light mx 0740  
1310 KNUI in Hawaiian over 5AD 1630.  
1380 KPOI good music over 3MP 1630.  
1389½ Unid YV or HJ sounding like Radio  
Poccati in SS. 0840.  
1403 Carrier, no audio 0720. Conakry?  
1490 Lord Howe Is. fair 0245. good 0720  
Sunday. Chris Martin, Harry  
Weatherley, Ernie Moore,  
Sam Dellitt, John Campbell

NZ TRAIL CONTIBUTORS: Ray Crawford,  
Merv Branks, Paul Edwards, Phil Brooks  
Bryan Clark, Trevor Phillips, John  
Allchin & Jack Searle. Tx fellahs!

...more evening trail.

1375 St Pierre et Miquelon (tentative)  
at fair strength 0815-0900 13/2  
then very weak. Back again 0935  
to 0950 much stronger. Severe  
splash 1370 & 1380. Once only. RC r  
1380 KTOM 0900. WAOK ident 0826. MB  
1430 KELL, KALI in SS, another 0830. RC r  
1450 Rey & Galeon mixed 0730. RC r  
1480 KBOX over 1XA 0740. KYOS s/off  
0800. SS over Hauraki 0800. RC r

..PE

IRAN New address for NIRT is P.O.Box 47-3456, Teheran. A new International Programme has been inaugurated on 1555kHz with 20kw, 0200-2200, mainly in EE, but including FF, GG & RR news bulletins. A low powered American Forces station previously used this channel in Teheran. The new outlet is apparently regular DX in Europe. BBC MS (c)  
Arbadil is on 1313 ex 1340. MWC/NRC

BANGLADESH A 100kw transmitter is being installed at Chittagong, for operation on 870kHz. BBC MS(c)

ISRAELI Peace Crusader Abie Nathan has sailed his ship 'Shalom' through the Suez Canal. Until now, the ship has been anchored in the Eastern Mediterranean, broadcasting on 1540 kHz 'The Voice of Peace'. Egypt prohibits Israeli-registered vessels from going thru the Canal, but Nathan's ship is registered in Panama and has a 16-member multi-national crew. via Theo Donnelly

SRI LANKA SLBC's 7th MW station has been commissioned at Mandaitivu. The 20kw transmitter and associated gear were donated by West Germany. BBC MS

OKINAWA JOFF 1020, operated by FEBC for the last 20 years, closed down on 16 January. In accordance with the 1972 Reversion Agreement, signed by the USA and Japan, all non-military stations were to cease operation by May 1977. In the final sign-off, FEBC President Robert Bowman stated that the Board of Directors had decided on the earlier closedown in order to allow the majority of JOFF staff to be transferred to a new FEBC station on the island of SAIPAN. The new station is to operate on 'around 940kHz' and should be operational 'in about 3 months from now' (May 1977?). EE will be broadcast in the early evening hours. M.Hardester/LRCA  
A Yugoslav news report states LRCA that the AFRIS station was due to close in January also. BBC MS This is presumably the 650kHz outlet, but the above indicates that this is not one of the stations required to close. VOA Okinawa uses 1178kHz for EE to North East Asia 1100-1200. ADXN

THAILAND VOA has English over VOFA Bangkok 1580kHz 1130-1200 and 1430-1500, to South East Asia. ADXN

1490 Regular SS here is located in Bogota, Colombia. Id surely is Radio Cinco. 0800. EC  
1510 WLAC Nashville idents 0855. JA  
1550 KGAR Nx 0700.MB. A.I.Nx 0800 regular here with 10kw now. RCr  
Unid Mexican here 0727 23/2 BC  
1555 Cayman Is good at s/on 1056 in EE, blocking DYLA which is here from 0930. Regular. RCr MB  
1600 WXVI with UPI news 0800. RCr  
KCRG with numerous others 0830. RCr  
WKWF with ident 0830. MB

REPORT FROM SCANDINAVIA

From Northern Sweden, member Yngve Mattsson writes of the fantastic season he's had of North American DX, with around 40 new stations and 3 new state -s reported. Currently his totals are 38 US states & 116 stations verified; from Canada 11 provinces & 64 stations. Highlights from Yngve's logs for the winter just finished: KIDO 630 first Idaho logging, KSPO Spokane 1230 with 250w heard well several times, KGAR now super strong on 1550, replacing earlier dominant KRGO in Utah, KVGB 1590 first Kansas logging, KBRW 680 Barrow Alaska dominating, KXLY 920, KSAL 1150, KWWI 1330, KAAV 1090 first Arkansas logging, KGLO 1300, WDEE 1500 WPOP 1410, WGEE 1360, WXCL 1350, WSWW 1590 - a rare catch, WSAI 1360, WISN 1130, plus familiar stations for NZers like KBOI, KDAY, KIRO, KNBR, KFI, KGA, KMO, WMAQ, WBBM, WGN. Canadians include CJFP 1400, CHEF 1450, fine sigs from 250w CHFC Manitoba on 1230..... Yngve now DX's with a 25 tube Collins R-392/URR and 700m beverage to NW. Accompanying this fine DX, temperature -s have been at 20° below zero C, with 50cm of snow on the ground. Fraternal DX greetings to Yngve and all the other ECB enthusiasts on the other side of the world.

BROADCAST MAILBAG conclusion

MERV BRANKS Invercargill has logged 2ZK, 2XA, 3WM, 4MK, 6PM, KTN, KGAR, KXYZ, Jumbo 545, Antigua 1165, DW Malta 1570 and Cayman 1555. Veries from KTRH, KSRO and 2GN.

IAN RUSH Dunedin has reports away to 1XI, XW, 2SM, NX, GB, AY, PK, ST, UE, 3AW, UZ, ZM, XA, BA, 4XB, XO, MK, NA, GY, 5DN, SE, KFBK and KHVH. QSLs to hand from 1XI, XW, 2SM, GB, NX, 3AW, UZ, ZM, XA, BA, 4XB, 5DN, SE. Welcome Ian! Otago has a great heritage on the ECB band.  
PAUL ARONSEN logs KCRG, KGAR, CMJG, XEROK, Cayman 1555, WWL, WLAC, 3MP.

# CAN-AM REPORT

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With the closure of NBC's News and Information Service (NNIS) on 29 May, participating stations are looking at new formats. Of the 62 stations in the network, 42 have indicated that they will remain on all-news, eg KFBK has signed up with MBS & AP Radio Networks, KASH with UPI & CBS Network and KYXI with AP Radio Network. NRC

- 560 CHCM Newfoundland to 10kw U.
- 570 CKSW P.O.Box 370, Swift Current, Sask. S9H 3W2 is moving here ex 1400, with 10kw 24hrs a day, directional to the north.
- 600 CFCF Quebec to 50kw nights.
- 630 CHED Alberta is soon 50kw U.
- 680 CHFA Alberta soon 10kw U, with CBC's French network.
- 810 KGO is now all night NSP.
- 850 CFVR Abbotsford BC testing day & night late January.
- 860 CFNS Sask. 10kw here ex 1170.
- 910 KDEO El Cajon, Calif 1kw nights, requests new call KMSK.  
CJDV Alberta to 10kw day, 5 nites.
- 920 KBZB Texas granted KYXK 1/0.5kw.
- 930 CJCA Alberta to 50kw U.
- 940 KFRE is now No Silent Period.
- 970 KOIN Portland requests KYTE call.
- KBIS Bakersfield granted KUZZ.
- 1020 KTN office/studio address is 338 S. Western, Los Angeles, Cal. 90020. Is U4 50kw day & nite NSP
- 1110 CHQT Alberta to 50kw U.
- 1150 CKX Manitoba to 10kw nites and 50kw days.
- 1290 CFRW Winnipeg 10kw day & nite is approved here ex 1470kHz.
- 1310 KBUZ Arizona granted KQXE 5/0.5.
- 1380 KUDL Kansas granted new call KCNW
- 1390 KBLW Utah to 5kw day/0.5kw nite.
- 1420 WRBL Georgia requests WRCG 5/5kw.
- 1450 WFMT Chicago 1/0.25kw is new.  
WNPS Louisiana requests WDLE.
- 1490 WHSL requests new call WWIL.
- 1550 KKHI is no longer 24 hours.  
KGR Vancouver, Washington has been 24hrs since Xmas with 10kw.  
Credit to IRCA, with Canadian items from John Oldfield

The 4 stations of the Star Broadcasting Company, including KOIL Omaha, Nebraska 1290 and KISN Vancouver, Wash. 910 were ordered off air by the FCC late 1976, on the grounds of misconduct by board chairman & majority stockholder Don Burden. He was charged with a long list of violations, including running phoney contests on the air, billing advertisers twice, slanting news broadcasts, and giving free air time to some political candidates.

KREX Grand Junction, Colorado 1100kHz recently celebrated it's 50th anniversary. Back in 1926, Rex Howell (who still owns controlling interest in the station) bought a 15 watt transmitter. It was licenced as KFXJ and was specifically prohibited from operating in any city with an already existing broadcast station. Howell lived in Denver, which had a number of stations, so he moved 2 blocks across the Denver city limits into the suburb of Edgewater. Before long, he had totally rebuilt the station & was granted a full scope licence. In 1930 KFXJ moved to Grand Junction, becoming the first station in Western Colorado. At this time they used 100w on 1310. By the early 1940's, KFXJ moved to 920, using 1kw. The 50's saw a power increase to 5kw, and a call change in 1956, to KREX. In 1970, KREX finally gained 50kw status (10kw nights with a somewhat elongated figure-eight pattern, beamed N-S) on clear channel 1100kHz.  
R. Kemper IRCA

## VERIE SIGNERS

HJPO 1430 Salvador Danocouri Baldovino, Director.  
YSCF 1155 Mariana Ortez Guzman, Locutora Ondas del Caribe 1150 Enrique Gómez.  
Voz de Guabo 1555 Jose Noel Ramon Romerq.  
Ray Crawford

KOOL - J. Russell. WML - Karilyn Walker. KATZ C.B. King, CE. P. Ormandy

HONDURAS La Voz Evangelica now uses 10kw on 1390kHz, replacing 1kw on 1380.  
BBC MS(c)

CUBA CMKV Radio Rebelde 150kw on 600 has been noted drifting to 602 and 604kHz.  
NRC 1/77

ARGENTINA Radio Nacional Buenos Aires 870 is now 24hrs with call LRA1. Radio Nacional Cordoba 780 signs off at 0500. Radio Ciudad de Buenos Aires signs off at 0430.  
MWN/NRC

PERU Radio Bicolor, Tacna 990 with 10 kw is new 24hrs station.

COLOMBIA HJBI 840 now 30kw, HJEW 1110 now 15kw, HJGK Radio Santander is 20kw HJJDZ 1030 now Radio Primavera, Bucaramanga. HJLZ La Voz de la Cinaruco now on 1050 10kw, ex 1320. WRTVH NL  
HJPP Radio Tamboral, Maquen under construction with 1kw on 1270, also HJPF Ritmos del Tolimar, Melgar 1530. WWDXC

via Theo Donnelly



C O N T I N E N T S   L I S T I N G S

Here we go again with our twice yearly statistical breakdown of members QSLs by continental grouping, plus a chance to see what members consider to be their best QSLs from a nominated area. This time the spotlight is on North America. For the first time Central America is a separate grouping, split from North America following discussion at the 1976 League AGM. We haven't room to show Antarctica as a separate continent, so the asterisk against Oceania indicates AFAN McMurdo Sound is QSL'd. Asterisk alongside your name means deletion next time (September 1977) if you don't update then. Next featured area is EUROPE.

BROADCAST

	<u>A/NZ</u>	<u>Ocia</u>	<u>S.Am</u>	<u>C.Am</u>	<u>Nt.Am</u>	<u>Eur</u>	<u>Afr</u>	<u>Asia</u>	<u>Cnts</u>	<u>Total</u>
Norm Maguire(Hawaii)	47	36	15	-	2714	17	1	43	58	2873
Arthur Cushen	397	99	20	-	1132	127	26	421	145	2222
Merv Branks	615	104	9	46	876	55	6	414	132	2125
Keith Robinson*	367	74	23	-	1228	107	8	257	113	2064
Ray Crawford	319	65	27	42	244	97	12	285	127	1091
Eric McIntosh*	353	60	2	-	317	57	5	123	84	917
Sutton Burtenshaw	286	60	26	31	306	38	3	114	114	864
Robin Chambers*	260	?	10	-	272	88	18	178	103	826
Chris Martin(Australia)	140	41	5	39	96	63	22	120	128	526
David Ricquish	259	55	4	-	141	6	0	43	47	508
Paul Aronsen	253	26	1	-	91	12	10	40	?	433
Bryan Clark	101	44	21	28	141	24	2	39	79	402
Paul Ormandy	164	25	3	7	56	7	0	25	42	290
Jim Benzoni	160	17	2	1	49	0	0	9	23	238
Ash Nallawalla	121	6	1	3	16	1	0	14	18	162
Paul Rawdon*	91	10	1	-	28	0	0	6	17	136
Bruce Cavanagh	94	0	0	2	12	3	0	6	20	127

SHORTWAVE

Arthur Cushen	289	353	398	-	514	1431	460	904	240	4349
Barry Williams*	73	80	109	-	256	545	467	466	208	1996
Ray Crawford	97	60*	97	49	98	505	101	292	149	1301
John Mainland	26	37	60	63	99	557	204	240	177	1286
Bryan Clark	133	41*	65	31	99	360	229	148	168	1110
Bill Huddleston	74	26	29	-	136	453	89	230	119	1037
Eric McIntosh*	66	72*	35	-	104	179	59	103	110	619
Paul Aronsen	35	36*	30	-	75	235	44	122	?	577
Keith Rogers	40	12	31	-	74	267	45	129	116	598
Paul Ormandy	47	24*	17	18	42	192	59	103	112	506
Jim Benzoni	52	35	30	9	62	163	28	93	88	468
Bruce Cavanagh	19	27	23	5	17	153	31	111	93	385
Brent Allred	32	5	57	-	22	117	7	40	53	385
Paul Rawdon*	25	10	30	-	26	116	24	75	96	306
Bill Vogel(Australia)	38	13	21	4	18	86	31	58	100	269
Ian Wells*	9	10	8	-	20	41	4	30	56	122
Ash Nallawalla	17	1	0	3	4	19	3	14	36	62
Trevor Phillips	0	0	0	-	4	6	1	5	15	16

Welcome to new entrants Keith Rogers & Trevor Phillips. Why not spend a winter night or two tallying your continental totals. Brent A: you gave country total per continent in error. Now here are the best QSLs: Arthur Cushen CKFH Ontario 1400kHz 250w and CKFX Vancouver 6080 10w, Ray Crawford WAKI Tennessee 1230 250 watts & CFVP 6030 100w, John Mainland CHNX Halifax 6130, Sutton Burtenshaw WHSL Nth Carolina 1490 250w & KBYR Anchorage 1270 1kw, Bryan Clark CJFP Quebec 1400 5kw & CFVP 6030 100w, Jim Benzoni ZBM1 Bermuda 1235 & CKZU 6160, Keith Rogers CFVP 6030 100w, Paul Ormandy W12M Wisconsin 1410 5kw, Chris Martin WKAT 1360 1kw, Bruce Cavanagh CFXC 6005 500w & WLAC Tennessee 1510, Bill Vogel WYFR 11905, and Ash Nallawalla KFYS Missouri 960 5kw. See you next September? One more personal best, just to hand: David Ricquish KICY Alaska 850 5kw.

# The Yaesu FRG-7 'FRoG'

9

With the recent arrival of a consignment of the new Yaesu FRG7 communications receiver, members throughout the country have taken delivery of this exciting set. 3 have provided us with their comments - Shortwave Editor Tony Marr of Wellington, Jack Searle of Haumoana in the Hawkes Bay, and Paul Tower from Norfolk Island. Current NZ price is \$315 to League members, plus air freight delivery to the nearest airport.

First impressions: Jack - "It arrived beautifully packed, complete with NZ plug fitted to the lead, several spare adaptors and plugs, and 2 hanks of wire to use as antenna and earth leads. I would have liked a plug for the coaxial antenna socket, but this was not included and as yet I have not been able to obtain one locally. The handbook is comprehensive and includes lineup data, spare parts list and a large fold-out wiring diagram. A chart showing correct voltage for all semi conductor lead outs should be invaluable to a serviceman. The set itself has a handsome appearance and externally appears to be very well constructed."

Operation: Paul - "The most interesting feature of the Yaesu FRG7 is the simple method of dialling the frequency required. To prove the accuracy of this, I often turn the volume off, dial the frequency, turn up the volume, and the required station is there!" Jack - "Operation is a bit different from usual receivers in that one has to preset the MHz dial, and then work the kHz dial and front-end preset together for maximum output, but it soon becomes easy, and with absolutely no backlash at all in tuning, the whole thing is a pleasure to use." Tony - "General operation is very easy and simple. The only criticism is in tuning single sideband, which takes some practice. However the fine tune control helps here." Jack - "Dial readout is generally very good; much better than my Barlow Wadley. WWV comes in bang on the ends of the dial, and VNG exactly on 7.5MHz, but I seem to have a 5kHz error around 9.5MHz. This is the most I have found anywhere, and it can be offset by adjusting the fine tuner. Dial setting is adjusted by moving the 'lubber line' sideways, not by trimming as on the Barlow Wadley. With a maximum dial error of 5kHz, this is fantastic after the receivers one has been used to." Tony - "Audio quality is very good; better than many receivers on the market."

Performance: Tony - "Without having checked the manufacturers specs, the sensitivity throughout (including MW), is excellent. Notable is the lack of internal noise. Selectivity (main area of criticism overseas.Ed) saw no problems experienced tuning 5kHz splits on shortwave, although some hets were noticeable. The audio filters are not particularly useful. The FRG7 was not far behind my Drake R4A for selectivity. Most solid state receivers suffer quite badly from blocking, ie cross modulation, in strong signal areas. The FRG7 is excellent in it's rejection. Even operating some 250yds from the 2YA transmitter, no problems have been experienced; and in similar proximity to RNZ's shortwave transmitters, blocking is only evident on the band in use, ie if RNZ using 15MHz, no problems are encountered on either 11 or 17MHz.

Continued Over

## YAESU FRG7

SOLID STATE  
GENERAL COVERAGE  
COMMUNICATIONS  
RECEIVER

# \$315

RADIO ENGINEERING LTD  
GPO Box 764, Dunedin.

The attenuator works satisfactorily but should seldom be needed. Stability is excellent. AGC attack and delay time is satisfactory, and output level is held well with large input signal variations. Calibration is excellent, easily to 5kHz throughout." Jack - "The S-meter seems rather optimistic, giving a reading over S-9 on anything above which I would judge as S-6. With the attenuator switch in the 'DX' position, the reading is reduced. The 'Tape Out' is a perfect match for my Aiwa TP704 recorder, and gives clear recordings at a steady level, regardless of the receiver's gain control setting. No reduction in output from the speaker is noticeable when taping. Battery operation is as good as the mains, and the changeover if AC power is cut, is instantaneous. An earth is necessary when using batteries; if the mains is plugged in this provides an adequate earth."

Reception: Paul - "Using a 140ft longwire and dipole antennas, reception of NZ and Australian broadcast stations from Norfolk is very good during daytime. Shortwave reception is excellent mornings and evenings. Aeradio reception is reasonable as is that of radio amateurs." Jack - "Medium wave reception is as good as the rest of the frequency coverage, so it is far ahead of the Barlow Wadley in this respect. Operation with a tuned loop is excellent, but it objects to my loop amplifier, creating a terrible noise. Reception of CB transmissions is good; SSB is easily resolved and is very stable. There seems to be no tendency to drift at all."

Conclusions: Tony - "In my opinion, the FRG7 is superb value for the price. Serious DXpeditions to quiet locations will be a definite possibility." Paul - "For DXing and general medium wave reception, I further support the Yaesu FRG7. It's a beaut." Jack - "So far as I can see after my brief acquaintance, this is a fine set, at a price which has to be good value when compared with others available on the NZ market. It is easy to use, has very good dial accuracy and so far is completely free of any spurious signals or birdies. In a word, I'm 'delighted' with it."

<p>YAESU FRG7 - MODIFICATIONS FOR SELECTIVITY, AVC &amp; PARALLAX.</p> <p>Technical whiz and DXer, Ralph Sanserino of 8422 Crane Circle, Huntington Beach, Calif 92646, USA has produced a data sheet of improvements for the FRG7. This can be ordered from Box 2956 in Wellington. Send 18 cent stamp to cover photocopying &amp; postage.</p>
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QSL POLICIES -  
BBC and DEUTSCHE WELLE

Correcting the 'Sweden Calling DXers' report, quoted in the December Times, Mr G.G.Theille, DX Editor of Deutsche advises in a letter dated 24 January: "It is true that a change has taken place in our QSL verification policy. In order to deal with the verification of reception reports more promptly, and due to the increasing number of QSL reports arriving in this office, we have decided to no longer confirm the items 'date, hour, frequency and transmitter location' on our QSL cards in future. The sending-in of a suitably sized, self-addressed envelope will speed up the reply. But we shall send the same QSL card, without the above-mentioned data. We hope for your understanding in this matter."

Jack Searle

The BBC's policy is outlined in a circular letter received from the Chief Engineer External Broadcasting, P.O.Box 76 Bush House, London WC 2B 4PH: "Many thousands of reports arrive from listeners every year, and each report is acknowledged by postcard. Some listeners, in particular keen DXers, are disappointed that the BBC does not include on the card details of date, time and frequency. The main reasons the BBC doesn't include this information is that most listeners are satisfied with the present card, and the extra staff needed to issue many thousands of full QSLs' would be considerable. Also the BBC can be heard throughout the world at some time of the day, even with simple receiving equipment, and if a BBC QSL was issued freely, it would represent little value to experienced shortwave listeners.

However, listeners are likely to receive a proper QSL if they provide new information about a BBC transmission, such as a new frequency or identifying a station which has just started to cause interference to the BBC. Cont. P19



# SW QSL

March is upon us once again and the mailbag is full I see so without any fuss let's open it and see what veries you have all been receiving lately.

**ANDORRA:** Radio Andorra 6230 kHz. Colourful QSL Card depicting antennas against snow covered mountains and couple in native costume in foreground. Received in 4½ months for English rpt and 2 IRC's. Same picture as on my Radio Andorra 5995 kHz QSL of February, 1966. (B. Clark) Received in 3½ months and 1 IRC. (P. Edwards)

**BRAZIL:** Radio Bandeirantes, Sao Paulo 6185 kHz. Colourful QSL Card with studio pictures on front and on reverse details in Portuguese, English and German. Received in 7 months for Portuguese rpt and 2 IRC's sent airmail with a postcard. (P. Ormandy)

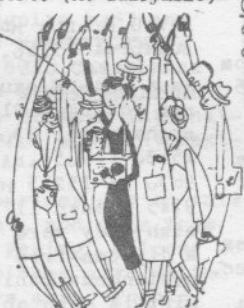
**COLOMBIA:** Radio Cinco, Villavicencio 5040 kHz. QSL letter from Jairo A. Agudelo C. Rpt sent 12.10.76 in Spanish with stamps, coins, postcard and was registered. New year card received and QSL finally received 26.1.77 after follow-up rpt sent on 22.12.76 (P. Edwards)

**Radio Santa Fe, Bosota.** 4965 kHz. Postcard type QSL showing picture of cocoa picker on front and details in Spanish on reverse. Received in 5 months by air for Spanish report and souvenirs. (B. Allred)

**CAMEROON:** Radio Garoua 5010 kHz. QSL Card from Yaounde giving details including transmitter location. Received in 3 months for 1 IRC. (P. E)

**ETHIOPIA:** Radio Voice of the Gospel, ETLF, 11800 kHz. Colourful card showing studio scenes in 4 months by air for English report. (M. Dalrymple)

**MEXICO:** Radio Mexico, XERMX 15385 kHz. Full page QSL with comprehensive data on transmitter, antenna etc. Received with letter and tourist information in 1½ months for English report. All material received in Spanish, signed by Manuel Cerrillo. Although it bore airmail stamps the package took 5½ months from Mexico. (J. Searle. Must have been hi-jacked! Ed.)



**PERU:** Radio Inca del Peru, 4762 kHz. Letter and QSL Card from the Director Gerente, Augusto S. Irei S in reply to a Spanish report with p/card and coins. (P. Edwards)



**PORTUGAL:** IBRA Radio 9670 kHz. QSL Card with full details in 2½ weeks by air for English report. No verie signer but personal note from Nina Sundberg. QSL Card is blue and shows 'Four big blocks of daily broadcasting areas on globe' (B. Allred)

**Radiodifusao Portuguesa** 9740 kHz. Card with full details showing photo of Lisbon at night in 23 days. (M. Dalrymple) 11935 kHz QSL Card featuring painting on front and full details on reverse. In 1 month for EE rpt. (B. Allred)

**SABAH:** Radio Sabah 4970 kHz. Letter and card and schedule from Ramlah Amir for Director of Broadcasting received in 7 months for English report and 1 IRC. (P. Edwards)

**SIERRA LEONE:** SLRS, Freetown 3316 kHz. Card showing the Coat of Arms in 4½ months for English rpt with 1 IRC. Full details on reverse of card. Verie signer: Alpha Sesay, Eng.-in-charge. (B. Vogel)

**THAILAND:** Radio Thailand 7115 kHz. Beautiful colour QSL featuring Grand Palace with all details on reverse. Verie signer Janai Sringsalshai, Director. Received in 6 months for EE rpt with 2 IRC's (P. Ormandy) 9655 kHz Colourful QSL of 'Grand Palace' by surface for EE rpt and 1 IRC. received in 3½ - 4 months. (P. Edwards & M. Dalrymple)

**VENEZUELA:** Radio Nacionalde Venezuela, 15400 kHz. Verie form letter from Charlie Nash giving frequency and date. Received together with SS book on station in 1 month for EE rpt and 1 IRC. Replied by air. (D. Lynneberg)

**YEREVAN:** Radio Yerevan 4990 kHz. 3 x 3½ " paper QSL giving full details sent by registered air. Received in 50 days for EE rpt and 1 IRC. Reported direct to Yerevan. (P. Edwards & B. Williams)

Well that's it once again. Thanks this month go to: Brent Allred, Bryan Clark, Paul Edwards, Dene Lynneberg, Paul Ormandy and Barry Williams and from Aussie Murray Dalrymple and Bill Vogel.



**RADIO O BANDEIRANTES**  
SAO PAULO - BRASIL

# Shortwave Mailbag with Tony Marr 12

Another summer is almost gone, so it's time again to keep an ear out on the lower bands, 60 and 90 metres for the African signals, which should be picking up around sunset and sunrise. Have a look there, you may be quite surprised at what turns up. There's a lot of new countries waiting on the tropical bands. Also, it's the time of year again when Greenland has been heard on 5980kHz, around 1030 GMT, so that's another one well worth watching out for. Some good lists of veries this month, so here's the mailbag:

BILL VOGEL Adelaide is first away this month with 2 out, and 4 back from OHF 17765 6155 17850 HNK 17735. Better than none.

BRENT ALLARD Christchurch has had a good month with QSLs from peking 11600 DDC OAX4Z 6082 FEBC 15390 Moscow 11940 NHK 15130 RA 9535 17870 RNZ 6105 Brasil 11780 VOFC 17890 RN Bon 9630 IBA 9425 12045 Lagos 15120. hope the tech going ok.

BILL JOLLY Kawerau in his first letter to us, tells of 14 out, and replies from NHK 15105 17825 17880 RNE 9505 IBA 9425 Lisbon 11935 peking 9460 RN Bon 15245 with a pennant, Moscow 15380 Vatican 21485. Thanks, Bill, and welcome to the gang. You're doing very well.

CECIL SYMMES Wellington has them back from Cairo 9475 IBA 12045 RNE 11730 Kiev 15100. Goodies from the survey very nice.

LINDSAY RUBINSON Invercargill has 2 out, and veries from Pakistan 15325 and 21590. A good one to have anyway, they don't always seem to answer....

ARTHUR CUSHEN Invercargill has verified RA1 9735 FEBA 15280 Sweden 9545 VOH Malta 9745 Banjarmasin 3250 SBC 9560 HCJB 9560 6095 RRI Pekanbaru 5885 DZB9 11765. ra.

PAUL EDWARDS Wellington has 3 back from Uganda 6030 Mongolia 6383 and DW Kigali 21540 with a pennant.

PAUL ORMANDY Oamaru has 21 out, QSLs in IDF 21620 AFRTS 11840 Bucharest 9570 9530 Saudi 9685 ETLF 6015 SBC 15305 peking 15360 15045 DW Kigali 7225 9565 RN 6165 Sweden 17770 FEBC 1920 NHK 15420 TWR Bon 15445 15275 EIRK 9750 11730 VLH15 15230 BBC Asc 15260 rebrau 11955 FEBA 9700 P&P Frunze 17785 VOA Kavala 11925 Dixon 17895 HSA 21535 Wombos 4970. Yes, you've been busy again.

JOHN ALLCHIN Auckland has a loner back from SBC 15305. As I always say, it's better than none.

DENK LINDBERG Wellington has 3 out, veries from DW Kigali 17780 Venezuela IVRO 15400 FEBA 9700 NBC Sogunle 4900 HB Szekesfenervar 21525 and confirmation of participation in the solar eclipse survey.

JOHN MAINLAND Wellington has them in from FEBC 11765 Iran 17730 Lisbon 11935 Helsinki 15270 RN 9895. ra.

DAVID FREDON Rotorua has a loner from Budapest 15160.

JACK SEARLE Maunmoana has a good list HFE Portugal 21665 SBC 9560 Moscow 17825 Bucharest 1830 TWR Bon 15445 15275 HNZ 15130 11705 IBA 9435 7412 9425 RN Bon 9630 RA 15215 HFI 11705 DZB2 3345 Sofia 9745 Sweden 11770 Kongo pronto in 11 days, wish they were all like that! Also has a diploma from Bucharest for 5 years of continuous monitoring, and a special gift is also on the way. Congrats indeed, that's a great achievement. HNZ7 excellent.

ALAN GILMOUR Greymouth has 6 out, QSLs in from NHK 9585 DDC2 9580 peking 11720 RSA 15220 Kuwait 15345 Budapest 17715 Sweden 15305 Ashkent 6025 Tahiti 15170 RNE 9530 9505. You're doing nicely, too.

BRUCE CAVANAGH Invercargill has them in from RN Bon 15275 HCJB 15115 RN Malata 21480 VOA Gvle 6015 WUK 17890 HNK 11960 HNE 9530 Peking 9460 UKU 17740.

STEVEN GREENBERG Invercargill has 4 in with super 6065 Caracas 3390 Galapagos 4810reira Santana 4865. nice Latins.

KEITH ROGERS Lower Hutt has a long list n. western Dist 2450 BBC Antigua 6195 Oman 11890 Kuwait 15345 SBC 6045 15305 FEBC 15300 Malaysia 15290 RBI 17700 KGEI 5980 AFRTS Dixon 11795 HNE 7195 DW 6065.

MASAMI ONIZAWA Japan has them back from RNE 6140 9570 ELWA 4770 HCJB 15375 RN Bon 15320 Veritas 9670 11875

BRYAN CLARK Wellington begins our second page with 3 away and just one back from TWR Swazi 11955.

TREVOR PHILLIPS Wellington is another new-comer to this page, and has a good list of veries to start off with: CBC 6065 RN Bon 9715 RN 5955 rinland 9550 TWR Monaco 7105 Sweden 15305 NHK 11960 Singapore 5010 KBS 9525 TWR Bon 11925 FEBC 11765 IBA 15100 RNE 11880 Norway 15105 WINB 11775 FEBE 9700. Welcome to you, too. Yes, just send in your QSL total for the bi-monthly Ladder listing next issue.

JOHN CAMPBELL NSW has another list of goodies received Ketapang 5610 Banjarmasin 5969 BBC Antigua 6195 Mongolia 6083 and from a trip to Europe the hobby pirates Verona 6217 Black Shadow 6220 Casablanca 6220 Zodiac 6205 European Music Radio 6250 London International 6255 Britain International 6265 ABC England 6270. Most interesting indeed.

IAN RUSH Dunedin is another new one to this page and tells us of 2 out, and QSLs from Praha, RN, NHK, BBC, RA, Peking. Welcome to you too, Ian. Could you please give us the frequencies of your veries also. Thanks.

IAN HITCHINER Waiouru has QSLed NHK 11875 15025 17825 DW Kagali 21540 RTF 5955 FEBC 15390 Kuwait 9580. Ia.

RAY CRAWFORD Invercargill has sent 4 out, QSLs from CBC Daventry 7155 Sierra Leone 0016 Andorra 6200 Voz de los Centauros 6190 YVLC Impacto 0355. Some goodies there.

IAN CATTERMOLE Blenheim has heard from TWR Bon 15445 BBC 15070 OAX+Z 6082 P&P 11845 Pyongyang 9420 NHK 15025 VLH9 9680 Moscow 11690 9780 15100 Tirana 7065 9500 RNE 17755.

BILL HUDDLESTON Auckland has a good return from RA 11790 DW 9590 BBC tebrau 11750 Oman 11890 Oslo 11870 RA1 5990 Algiers 7245 Hanoi 15012 veritas 11875 RNE 11880 9505 plus 2 pennants RSA 17780 IWR Bon 15270 Sweden 15005 vatican 11700 WINB 15375 15355 FEBC 11765 NHK 15420 vox fidei malta 6185. Hope the 680x is going well.

COLIN CAMPBELL Rotorua has one back from Sofia 9700 and is busy sending off 77. Will keep the postie busy when all those start coming back....

STEPHEN LILLIS Auckland has had success with IBA 9435 SBC 9590 FEBC 6120 Oslo 11860 Moscow 49mb P&P 01mb Hanoi 10040 Papua 4890.

## BEST OF THE MONTH

### OVER 9mhz

RSA 21505khz 250kw 108 points

Paul Ormandy

Budapest 21525khz 20kw 108 points

Dene Lynneberg

### UNDER 9mhz

Nigeria 4900khz 100kw 105 points

Dene Lynneberg

JANET DUGGAN New Plymouth has her first contribution to us, and tells of QSLs from Moscow 11940 11690 HCJB 11915 NHK 15110 15205, and 2 are away. And a big welcome to you, too!

PAUL ARONSEN Invercargill just makes it with advice of 21 out and veries from Malaysia 4845, Sweden 21690, JOZ 9595, WINB 15355, Ghana 4980 & YDI2 3975.

### 1977 WORLD RADIO & TV HANDBOOK

Airmail copies of this invaluable publication arrived during February. There's 528 pages packed with info for the SWL and DXer - the 'How to Listen' supplement pages this year include articles on the current sunspot minimum, the future of SW broadcasting, an update on the clandestine radio scene, plus insights into amateur radio and the citizens band. If you're not aware of the WRTVH drop a note to Arthur Cushen, 212 Earn Street, Invercargill, for a descriptive brochure.

RADIO CANADA has finally cancelled broadcasts to the South Pacific, after 29 years. After many years of fine programming it is regrettable that we will have to try to hear Canada via its broadcasts to other regions. Best bet will be their North American transmissions.





### BURMA BROADCASTING SERVICE

Back in the late 1930's, the BBS used two small <sup>14</sup> transmitters located at Rangoon. One was a 100 watt outlet with the call sign of XZZ on a frequency of 3488kHz. The other, of 1500 watts, used 6001kHz.

In the late 1940's, a medium wave outlet was added: 955kHz with a 5kw transmitter. This was followed by a 7.5kw unit.

In the late 1950's, the BBS changed it's location, and took the call sign of XZK. The 5kw MW outlet was transferred to 1150kHz with the call sign of XZK8.

Today, the BBS uses 3 transmitters of 50kw each. The MW outlet on 955kHz is on air from 0030 to 1600 GMT, parallel to the SW Service, which can be transmitted on 60, 41 or 31 metre bands, depending on propagational conditions. The frequency of 4725kHz is also used between 1100 and 1415 with a regional programme for country listeners. English is broadcast at 0200, 0700 and 1430 GMT. The address for reports is Director General of Information and Broadcasting, Burma Broadcasting Service, Promé Rd, Kamayut P.O., Rangoon, Burma. Return postage is necessary for a QSL. Brent Allred/RA

### PRIVATE RADIO IN ITALY SCDXers 6/76

Free broadcasting is now legal in Italy. On 25 June 1976, the Constitutional Court ruled that private radio stations can freely operate all over Italy under the following conditions:

- 1) Transmitters should have a local target area only, like a city or province.
- 2) They must not interfere with the official broadcasting organisation RAI or with other services.
- 3) A Law will have to rule how the authorisation shall work in practice.

The government is expected to prepare a bill in the near future. Meanwhile the private stations continue to operate. At present there are more than 500 private stations on the air, all in the FM band, mainly in the range 100 to 106mHz, with powers of 10 to 100 watts. In Rome alone, there are nearly 30 stations, including one with all-English programmes. G.Nodari

### DEUTSCHE WELLE - KIGALI RELAY

Schedule for the last period concl. 6 March, for the Voice of Germany's West African Relay Base at Kigali, Rwanda. Two 250kw transmitters are used.

9565 and 7225kHz	0330 Swahili, 0430 English, 0515 French to 0545.
15410 and 11785	1045 English, 1115 Swahili to 1145.
15410 and 17765	1200 English, 1245 Hausa, 1315 French to 1400.
9735 and 7285kHz	1515 French, 1615 Swahili, 1715 English to 1745.
21540kHz	0930-1030 in English. 15410 & 11965kHz 1415-1500 in Amharic.
9735 and 6160kHz	1800-2150 German. 15410 and 11795kHz 2200-0150 in German.

While not current, most of these frequencies are likely to remain during the March-April period. Watch for local identification in French when the frequency opens. via BBC MS(c)

### LONG WAVE BROADCASTING FOR INDIA?

The Chief Engineer of All India Radio, Mr S.N.Mitre, has advocated the use of LW broadcasting in India, in the course of a lecture in New Dehli. He stated that AIR is now capable of designing "a practical system" for LW broadcasting, following several years of intensive study. AIR could cover the whole of India with 3 longwave transmitters, where 20 MW broadcasting would require 20 one megawatt (1000kw) transmitters, he pointed out.

Mr Mitre went on to say that longwave had not been considered earlier as this band had not been assigned to Asia, and India had no means of ascertaining its effectiveness. Experiments had now been conducted however, and the advantages over medium wave transmitters established. To enable Asia to use the LW band for broadcasting, the ITU regulations would have to be changed. A conference for this purpose was scheduled to take place in 1979. BBC MS(c)

CONVENTION 77 - A TRULY INTERNATIONAL GATHERING OF DXERS - EASTER 1977  
WILL YOU BE THERE TOO?

# SHORTWAVE BANDWATCH

coordinated by John Mainland



15

Highlights this month include Radio Belize on a new frequency; a regional outlet of the Nigerian Broadcasting Corporation is noted on 49 metres; and the Sri Lanka Broadcasting Corporation has appeared on a new 11MHz channel. Brazilian stations are now audible during the afternoon and evening listening periods. A Radio Nederland report says that these shortwave outlets may be forced to close down. Radio Canada has ended transmissions for the South Pacific and recommends listeners to tune to broadcasts for the USA. Following the devastating earthquake in Roumania, Radio Bucharest continues to be heard with scheduled transmissions.

ALL TIMES ARE GMT (Add 12 hours for NZT)

FREQUENCIES IN KILOHERTZ

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITS
3195	1700	IRAQ	Baghdad	good with news in Persian.	BH
3220	0918	PAPUA NEW GUINEA	Radio Morobe	good in Pidgin. EE 0930-1000. Also reported Radio Southern Highlands 3275 at 0852, Radio Central 3290 with EE ident 0900. Both good.	JS
3285	1205	BELIZE	Radio Belize	with fair-good signals just after s/on. New frequency replacing 3300kHz.	RC
3425	1430	NEPAL	Kathmandu	good with local mx. EE Nx 1450.	BH. 1242 good.
3905+	1915	INDIA	All India Radio	fair with Indian mx and anncs.	BV
3910	0840	JAPAN	Far East Network	poor in EE with music & ident.	CS
3970	0700	ENGLAND	BBC London	with EE World Service news, good.	CC
3975	0635	ENGLAND	BBC	with EE language lesson, poor.	CS
3980	0700	WEST GERMANY	VOA Munich	with Breakfast Showm good.	CC
3985	0700	SWITZERLAND	SBC Berne	with 'Dateline'. CC. 0708 good in EE.	FA
3990	0840	GERMANY(WEST)	Radio Liberty	good with GG talk. LR. (Lindsay - this station does not broadcast in GG, rather Russian languages. Ed)	PE
3995+	1905	WEST GERMANY	DW	poor with int. sig & GG ident 1908, then talks.	BV
4200	1230	CHINA	Radio Peking	in SS to Sth America, weekdays only. Some telegraphy QRM otherwise quite fair. //9390 & 11980. S/off 1256.	DL
4380	1218	CHINA	PLA Fukien Frnt	with CC prgm 'the people of Kwangtung (Canton) & their fight for survival during Japanese rule'.	PO
4780	1919	AFARS & ISSAS	Djibouti	fair-good with AA style mx.	PE
4790	1815	SWAZILAND	TWR Manzini	fair, steady in Shona till s/off 1846. Gospel songs and talks.	BC
4820	1300	INDIA	AIR Calcutta	weak. AIR Kohima 4850 logged at 1315.	FA
4830	1330	THAILAND	Bangkok	with music programme.	FA
4855	1415	INDONESIA	RRI Palembang	vg with EE & Indonesian songs.	PO
4865	1940	UNIDENTIFIED	s/on around this time,	sounds PP. Mozambique? (How about Azores? Ed)	SG
4945	0630	COLOMBIA	Radio Colossal	good in SS, frequent idents. TP. 0732.	MO+
5010	1605	SINGAPORE	Radio Singapore	fair with music prgm in EE.	TP
5020	0723	SOLOMON IS.	Vq05 Honiara	with EE mx prgm. IH. 1025 good till s/off at 1130. EE music requests.	TP
5045	0800	COOK ISLANDS	Rarotonga	fair, relaying Radio Australia prgm.	LR
5960	0420	CANADA	CBC Montreal	with 'Weekend Magazine', fair.	DF
5960	0545	ANTIGUA	Deutsche Welle	relay to North America, fair.	DF
5960+	0722	COLOMBIA	La Voz de los Centauros	poor with idents, mx.	MO
5960	0855	JAPAN	NHK Radio Japan	int. sig & ident at s/on. Severe QRM.	CS
5965	0557	NIGERIA	Radio Nigeria	domestic service in clear 6/3 with EE news at 0600 after 'talking drums'. Fair signal, but QRM frm jamming of IBA 5962 from 0600. Location Benin per WRTVH but NASWA DX Hotline says at Jos. Mixed VOA on subsequent days.	BC
5975	0645	ENGLAND	BBC World Service	with EE mx prgm, fair.	IH
5990	1130	CANADA	BBC World Service	relay, good in EE.	BCa

<u>FREQ</u>	<u>TIME</u>	<u>COUNTRY</u>	<u>STATION</u>	<u>PROGRAMME &amp; RECEPTION DETAILS</u>	<u>INITIS</u>
6012	0840	ANTARCTICA	AFAN	McMurdo best ever hrd & first this time of yr, but poor overall due QRM. Country mx prgm followed past 0920 24/3. Measured 6012.5. BC 6012.2 poor-fair in EE 25/2. Regularly since. Top 20 prgms. PE. 0900 mainly C & W mx. Lost at 1005.	TP
6015	0945	PARAGUAY	Radio Paraguay,	Asuncion fair at times in SS.	BCr
6025	0812	PARAGUAY	Radio Nacional	fair-good in SS.	BCa
6025	0523	PORTUGAL	Lisbon	with history & music of Portugal. Fair in EE.	TH
6055	0635	CZECHOSLOVAKIA	Prague	very good with 'Interprogramme'.	JS
6095	0750	GREECE	VOA Kavala	relay poor in AA to s/off 0800.	JB
6135	0920	BRAZIL	Radio Gaucha	vg with frequent ident. Also noted at this time 6185 Bandierantes good, 6175 Guarani fair, 6165 Cultural fair, 6095 Radiodif. Sao Paulo under AFRTS, 5975 Guaraja fair.	BC
6180	0520	CYPRUS	BBC Mediteranean	Relay with EE, weak. (Antigua 6175 Ed)	DF
6185	0430	ECUADOR	HCJB	Voice of the Andes in RR, fair signal.	DF
6195	0500	CANADA	CBC Northern	Service with Nx in EE, ex 6065 13/2.	JM
6215	1640	MONACO	TWR Monte Carlo	with religious prgm, very good.	AK
6338	1916	NORTH KOREA	Pyongyang	poor in EE. Severe CW QRM.	JS
7115	0430	BULGARIA	Sofia	fair with DX prgm on 2nd Saturday. BH Poor in EE.	TP
7120+	1834	IRAQ	Baghdad	in AA. Idents as 'Idha' at al Jamhoriya..fi Baghdad & 'Asha to fi Baghdad'. Good.	MO
7203	1000	NORTH KOREA	Pyongyang	poor with propaganda in EE.	TP
7215	1250	BRUNEI	Radio Brunei	in EE with Mx prgm, poor fading. S/off 1430.	TP
7245	1830	MONACO	TWR Monte Carlo	int.sig & ident in EE, then religious prgm in Armenian, fair.	CS
7265	0700	WEST GERMANY	Sudwestfunk,	Rhordorf vg signal with time check, ident and news in GG.	BC
7285	1929	PORTUGAL	Deutschlandfunk	via Sines Portugal exc in Hungarian, following DW int.sig, PP transmitter ident, GG station ident & theme mx. Czech from 2030. See back page for details.	BC
7350	1030	USSR	Radio Station	Peace & Progress with ropaganda in EE.	TP
7360	1930	UKRAINIAN	SSR Radio Kiev	s/on in EE for Europe. Fair-good.	BCa
9009	2002	ISRAEL	Jerusalem	with News & 'DX Corner' in EE. Good.	BJ
9250	1915	KAZAKH	SSR Alma Ata	good with Home Service until s/off 1930, with ident 'Hoverit Alma Ata' and anthem.	PO
9445	2219	CANADA	RCI Montreal	in EE European Service. Commentary, fair.	TH
9525	1933	INDIA	All India	Radio excellent with EE music prgm.	TP
9525	1000	SOUTH KOREA	Radio Korea	with EE Nx. Also on 9580 but mixed with Voice of the Philippines. AC 1001 gave frequencies as 9525, 7240 & 7150. EE Nx, poor. JB. Nx, Korean History, good.	BJ
9530	0815	SPAIN	RNE Madrid	in SS, very strong. TP. 0915 very good in SS.	BCa
9540	0400	CZECHOSLOVAKIA	Prague	signs on in SS, fair-good.	BCa
9540	0800	AUSTRALIA	RA Lyndhurst	10kw in EE to NZ, replacing 6045 to 1730. From 1800, 6045 is still on air.	CC
9550	1000	AUSTRALIA	RA Shepparton	100kw on this new frequency, ex 9540.	CC
9570	2200	MALAYSIA	BBC Far Eastern	Relay fair with Nx. DF. 2315 cmtry.	BJ
9570	0433	QATAR	Doha	in AA, fair. PA 0535 poor-fair. QRM VOA 9565 to 0600.	BCa
9575	1905	MONACO	TWR Monte Carlo	Sundays s/on in EE, then Norwegian rlg.	BH
9585	0400	HUNGARY	Budapest	with DX prgm Saturdays, very good level.	JS
9590	2000	PORTUGAL	Lisbon	opens with a programme to Mozambique.	AC
9590	1725	WEST GERMANY	DW	vg in Asian Svce. EE Nx. JS. 0130 new to NthAm.	CC
9600	2045	SPAIN	RNE Madrid	with news in SS over Radio Australia, good.	DF
9615	1400	GREECE	EIRT Athens	s/on with Greek news, good.	BCa
9615	2210	VATICAN	Vatican	Radio in EE to Aust/NZ in EE, //11705.	CC
9645	1200	PHILIPPINES	Radio Veritas	exc to s/off 1220. TP 1231 in JJ.	MC+
9645	0815	BRAZIL	Radio Bandierantes	fair signal but QRM. //6185. BC. 0900.	AC
9655	1115	THAILAND	Radio Thailand	EE music till 1157, poor.	TP
9665	0818	BRAZIL	Radio Nacional	with commercial prgms in PP. Poor due splash ABC 9660. BC. 0900 Radio Nacional, Brazilia, fair.	AC
9675	1230	JAPAN	NHK Tokyo	in RR replacing 6030. 9530 in JJ 0900 ex 5960.	CC
9695	0325	SWEDEN	Stockholm	in RR to Asia. Fair ex 6045, 6/3.	JM
9700	0330	SEYCHELLES	FEBA	in EE vg. BCa Fair to East Africa. JS Off 0410.	TP



<u>FREQ</u>	<u>TIME</u>	<u>COUNTRY</u>	<u>STATION</u>	<u>PROGRAMME &amp; RECEPTION DETAILS</u>	<u>INITS</u>
9730	0458	SAUDI ARABIA	Riyadh	very good with AA talks & music.	BCa
9740	2038	PORTUGAL	Lisbon	with EE world and local nx.Moderate QRM.	IH
9745+	1934	IRAQ	Baghdad	poor in EE. Noisy reception.MO On 9750 EE fair.	BH
9760	0310	GREECE	Voice of Greece	good in Greek //9750 & 17750.	JS
9895+	0930	HOLLAND	Radio Nederlands	Lopik EE to Europe,very poor,QRM.	BV
9912	2130	INDIA	All India Radio	with news & talk, fair.	AK
11690+	2303	LITHUANIAN	SSR Vilnius	good with EE news.	MO
11705	1700	FRANCE	Paris	with EE nx for Africa.RA on same freq, //11930.	BH
				1715 Radio France International good in EE to Africa.	CC
11705	1700	JAPAN	NHK Radio Japan	in EE, replacing 7250.CC.0857 to L.Am.	JB
11730	0310	GREECE	Athens	good in Greek // 9760 and 9750.	JS
11735	1230	SWEDEN	Stockholm	in EE from Horby ex 9745. 11955 ex 11950 for FF from Radio Sweden at 1130.	CC
11750	1005	MALAYSIA	BBC Tebrau	with EE sports news, strong.	JB
11765	0929	PHILIPPINES	FEBC	good in EE. RR at 1000.BCa 0846 EE,swamped	
11770	0858	SWEDEN	Stockholm	EE id,then RR to 0928.Fair-good.BCa /0900.	JS
11770	0538	ETHIOPIA	ETLF	good in EE ex 11800. Also logged 15365 FF 1937, 11955 EE 1957, 15260 FF 0610, all reasonable strength. 1710 EE religious prgm, fair.	PO BH
11780	2015	BRAZIL	RNB	vg in GG. EE good 2140.JS.2100 EE Panorama,good.	BJ
11790	1955	ECUADOR	HCJB	Quito with EE rlg prgm.Ident,frequencies 2000.	CS
11795	1000	AUSTRALIA	RA Carnarvon	100kw Indonesian to 1500 ex 11935.	CC
11800	0530	ETHIOPIA	ETLF Addis Ababa	EE to West Africa ex 11770 fair.	JM
11805	0903	BRAZIL	Radio Globo	good in PP with Nx.Only Brazilian hrd 25m.	BC
11810	1158	ANTIGUA	DW Caribbean Relay	s/on fair in GG. QRM from Moscow.	BCa
11830	0530	ROUMANIA	Bucharest	in EE to Africa,fair.JM 0645 EE sport,wk.	TP
11835	0842	URUGUAY	CXA19 El Espectador	good nightly, mainly mx prgm.	PO
11835+	1750	SUDAN	Omdurman	good in AA. Ident as 'Huna Omdurman.'	MO
11840	0200	JAPAN	NHK Mailbag	in American Svce,fair. 11960 Swedish 0630.	IH
11845	1600	SEYCHELLES	FEBA	EE religious prgm fair to close at 1652.	BH
11850	1000	PHILIPPINES	FEBC Manila	mixed with Deutsche Welle.	AC
11850	1030	WEST GERMANY	DW Cologne	EE to Aust/NZ, signing off, fair.	CS
11855	1120	PHILIPPINES	FEBC	good in Indonesian, to s/off 1129.	BCa
11855	0830	CZECHOSLOVAKIA	Prague	with EE ident, news & cmt, fair.	CS
11860	0810	ASCENSION ISLAND	BBC Atlantic Relay	with WS EE Nx,cuntry,fair.	CS
11865	1930	CANADA	RCI Montreal	good with news broadcast.	AK
11870	0100	AUSTRIA	ORF Vienna	vg opening in SS to Latin America.	JS
11890	0415	OMAN	Muscat	fair in AA.	PA
11910	1800	LEBANON	Beirut	with AA ident & news.New freq, fair 27/2.	JM
11925	0203	BRAZIL	ZYR78 Sao Paulo	vg with excited cuntry //9645. Same prgm noted on 11805, 11865 and 11765.	PO
11925	0430	GREECE	VOA Kavala	with news on Breakfast Show. Good.	CS
11930	0800	HOLLAND	Radio Nederland	Lopik good in Dutch with int.sig,id.	CS
11935	0300	PORTUGAL	Lisbon	in EE to Nth America now timed 0300-0330, ex 0230 s/on. Poor 13/2.	JM
11940	1730	BELGIUM	Brussels	with orchestral mx prgm, good.	AK
11950	1945	ETHIOPIA	ETLF	in EE to Africa. Request Session Sunday.	AC
11955	1900	SRI LANKA	Colombo	with nx,mx, good.AK. 1920 Good in EE. // frequencies 9720 & 7120 not audible.	JS
11985	0710	ALBANIA	Tirana	with EE propaganda, good.	BJ
12035	0900	VIENTNAM	Hanoi	in EE fair to good. //10040 better signal.	JS
15105	2010	GRENADA	Radio Grenada	good over 3 days.Adverts. Nx 2030.	BH
15105	0830	AUSTRIA	Austrian Radio	fair in EE with news,commentary.	TP
15105	0100	JAPAN	NHK Tokyo	EE General Svce good. 15325 EE Europe 0800.	IH
15120	1106	VATICAN	Vatican Radio	with Angelus, poor.	DF
15120	2100	NIGERIA	NBC Lagos	with African Festival of Arts to 2200 6/2.	CC
15135	1715	WEST GERMANY	DW	in EE new freq. 15150 new freq in EE 1940.	CC
15140	2013	USA	VOA Bethany	to Africa, with 'Report on Africa', fair.	DI
15160	1030	HUNGARY	Budapest	fair with Nx.DF.1055 S/off anncnt in EE.	BJ
15160	0545	FRANCE	Radio France	with FF music, anncnts. Good.	IH
15165	0800	DENMARK	Copenhagen	with EE ident,fair.Severe QRM co-ch China.	PO
15195	1130	AFGHANISTAN	Kabul	in EE to Europe with Nx,mx.QRM USSR,NHK.	CS

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITS
15225	0718	TUNISIA	//11970,7275.PA	1830 Tunis in AA with ident 1859,good.	CC
15235	0930	JAPAN	Radio Japan,Tokyo	good-excellent with Nx in EE.	BJ
15240	1400	SWEDEN	Stockholm	in EE,replacing 9750.Other freq changes: 17790 replaces 11920 at this time, replaces 9720 at 1830, replaces 11735 at 1600. 15405 and 17795 new in Swede 1200.	CC
15260	0750	IRAN	Teheran in Farsi,fair.	New frequency //15084. 10/2.	JM
15270	2345	JAPAN	NHK	on new freq to Nth America in EE,replacing 9525.	CC
15305	1105	SWEDEN	Stockholm	poor in EE with DX programme. Quick QSL.	TP
15335	1855	COLOMBIA	Radio Nacional Bogota	SS ident & talk, fair 5/3.	JM
15345	0510	KUWAIT	Radio Kuwait	with EE mx prgm. News at 0530.	IH
15350	1833	ZAIRE	Kinshasa National Nx	in FF,good. Vernacs 1900. PE.2016 vg with mx,FF anncts. //15245 weaker. Idents 2030,brief nx.	PO
15390	1450	ROUMANIA	Bucharest	in FF for Africa, fair //15365.	JM
15410	0445	BANGLADESH	Dacca	with nx,mx, poor TP15400 EE nx,mx 0445 fair.	BH
15425	1350	SRI LANKA	Adventist World Radio	rlg prgm. Severe QRM.	TP
15425	0100	TAIWAN	Voice of Free China	with mx prgm. Unusable.	TP
15430	1110	SWITZERLAND	SBC Berne	with EE talks, good.	BJ
15440	0459	SEYHELLES	FEBA AA prgm	fair-good past 0520. PE 0502 with Koran & Urdu,good.PO(Unlikely that a Christian broadcaster would carry Koran? Is lang AA or Urdu? Ed)	TP
15440+	0150	CUBA	Havana	new freq with anncts,mx in SS fair. Unlisted.	BV
15512	1235	ISRAEL	Jerusalem	with mx prgm. Lang believed Hebrew.	TP
17665	0830	PAKISTAN	Radio Pakistan	s/on fair-good in Asian lang. <u>BCa</u> 1032 Music prgm. EE news 1100. Excellent.	TP
17700	0645	EAST GERMANY	RBI	fair in EE to Sth East Asia //17740.	JS
17770	1130	IRAQ	Radio Baghdad	good in AA.	DF
17865	1034	HUNGARY	Budapest	with commentary in EE, good.	BJ
17900	1300	VATICAN STATE	Vatican Radio	EE good //21485. 17840 in PP 1230.	CC
21480	0848	MALAGASY REP.	Radio Nederland	relay good in Indonesian with Amsterdam Top 10.PO 0905 poor in Indonesian to s/off 0920.	JS
21485	1200	VATICAN STATE	Vatican Radio	religious prgm in EE, good.	BJ
21515	0000	PHILIPPINES	FEBC Radio International	gosi 1 prgms in EE,poor.	CC
21520	1030	SWITZERLAND	SBC Berne	s/on excellent.	BJ
21570	0545	PAKISTAN	Radio Pakistan	here in Urdu ex 21590 6/3, //17750 & 17830. Hrd past 0715. Unsure if regular frequency change.	TP
21600	1135	WEST GERMANY	DW Cologne	good in Swahili till s/off 1145.	BC
21660	1000	CYPRUS	BBC Mediterranean Relay	good with World Service.	BCa
21665	0923	PORTUGAL	Radio Free Europe	good with easy listening mx. Idents in EE. JS 0850 music prgm good. Followed to 1005.	TP
21680	0900	SWEDEN	Stockholm	sked here in SSB 30kw to 1400 ex 16 metres.	CC
21690	0958	SWEDEN	Stockholm	weak with ident.PA 1005 Swedish to 1028 off.	BCa
21700	1050	PORTUGAL	Lisbon	to Australia. Excellent to s/off 1057.	TP

**CONTRIBUTORS:** Thank you to:

DL Dene Lynneberg	TP Trevor Phillips	BJ Bill Jolly	PA Paul Aronsen
JM John Mainland	PE Paul Edwards	JS Jack Searle	DF David Feldon
LR Lindsay Robinson	JB Jim Benzoni	EC Bryan Clark	AK Arthur Kindell
BH Bill Huddleston	PO Paul Ormandy	CS Cecil Symmes	RC Ray Crawford
BCa Bruce Cavanagh	CC Colin Campbell	AC Arthur Cushen	IH Ian Hitchiner
SG Steven Greenyer	BV Bill Vogel (Australia)	MO Masami Onizawa (Japan)	

**BBC MONITORING SERVICE (c)**

- +Radio Tanzania, Zanzibar was observed recently on 6005kHz, signing on in Swahili and announcing 584kHz and 6005kHz only. Previously used frequency of 3339 has not been traced.
- +The Thai Cabinet has approved the projected purchase of 2 500kw transmitters for the Public Relations Department of the Thailand Government.
- +A recent schedule from Radio Nepal: 0020-0350, 0720-1050 and 1150-1720 with EE at 0220-0230 and 1435-1520, on 7105 (100kw), 5007 (5kw), 3424 (100kw) and 790kHz (100kw).
- +Radio Yugoslavia was officially established on 26/1. The function of the new SW station will be to broadcast prgms in foreign languages, & in Serbo-Croat for Yugoslav workers temporarily employed abroad, emigrants and seamen.

# ARTHUR CUSHEN'S SHORTWAVE REVIEW 19

The frequency changes that took place on March 6 saw the introduction of several new frequencies and the extension of the BBC World Service to the Pacific up to 1615 GMT. Signals from Latin America are being well received in the late evenings and stations from Brazil are being received well in the 31 metre band.

All frequencies kHz

All times GMT

Antarctica: AFAN has been heard on 6012 around 0845. The station is expected to move to 7215 this month.

Antigua: The DW relay on 9735 is now being heard in Spanish 1000-1120. The German transmission to Australia and New Zealand from Antigua 0700-0950 is broadcast on 6085 and 9690. Also using 6145, 7285, 9735, 11795, 17845 and 21560.

Belgium: Brussels up to April 3 will be broadcasting in English 0015-0045 on 9725 with the DX Session on the fourth Sunday of each month.

Brazil: Radio Bandeirantes is being heard around 0900 with sideband from the BBC on 9640 to 0915 then from DW on 9650 from 0930.

Radio Nacional Brasilia 9665 is being heard with full ID around 0900.

Costa Rica: Radio Reloj now has an English announcement as follows: "You are listening to Aqui Costa Rica, a weekly programme that comes to you every Sunday at 0700 GMT and on Tuesdays at 0300 GMT over Radio Reloj 6006 and 4832 Khz." "If you wish to receive our souvenir QSL card simply request it by writing to Aqui Costa Rica, P.O. Box 3936, San Jose, Costa Rica."

France: Paris is now being heard on 15330 in place of 15335 from 0800-0900. Luxembourg is now being heard on 15335.

Korea: Seoul is being heard on 9580 and 9525 at 1000 in English. The former frequency is mixed with the Voice of the Philippines.

Indonesia: RRI Pekanbaru advises that the power on 5885 is 5kw, and they have added a MW station on 1130 khz with 300 watts. The schedule is 2300 to 0715, 0900-1600. Verification is signed by Azil Azwar.

Nederland: Lopik 9895 is now being used on a regular basis and the schedule is as follows: 0930-1050 English; 1230-1350 Spanish; 1400-1520 English; 1530-1645 Dutch also 1700-1820; 2300-0020 Spanish.

New Zealand: Radio New Zealand's Overseas Service schedule from March 6 is as follows: To the Pacific 1800-2015 on 9770; 1800-0050 on 11960; 2030-0700 on 15130; 0100-0630 on 11705; 0645-1030 on 6105 which also carries the Australian transmission 0730-1030.

Norway: Oslo is using new frequencies from this month and the best for reception in this area are: 0500-0630 9645, 11870, 15175; 0700-0830 6015, 11870, 11895, 15135; 1100-1230 15175, 17715 21730. English is broadcast on Sundays for the last 30 minutes of the programme.

Philippines: The Voice of the Philippines 9580 is being heard at 1830 and closing at 1855.

USA: The VOA to Oceania is now using 17820 from Dixon and 15290 from the Philippines for the period 2200-0000. 21610 has been deleted. The transmission from 1100 remains on 5955 and 9730 from Dixon and 6110 from the Philippines.

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BBC QSL POLICY from page 10 Finally, members of the BBC World Radio Club are invited each year to submit reports on BBC transmissions from the UK and relay stations during a stated period, and those who send in the necessary correct reports are issued with a certificate which also serves as a QSL for all the stations heard. Anyone can join the Club by writing to: World Radio Club, BBC, Bush House, P.O.Box 76, Strand, London WC2B 4PH. Full details of forthcoming DX awards are given in the World Radio Club prgm on BBC World Service. (Abridged) P.Ormandy

WATCH TV1's "LOOKING SOUTH" SUNDAY 6.45pm SHORTLY - ARTHUR CUSHEN FEATURED!



# ..sign off..

RADIO ANDORRA's 6230kHz station continues to be heard in NZ on Sundays, with FF noted at 0620 6/3. The following address was recently announced on air: EMA, World Broadcasting, Radio Andorra, P.O.Box 39, French Post Office, Andorra. Wootten NASWA, BC

RADIO KIEV's current EE schedule is 1930-2000 to Europe on 7390, 6020 & 5920kHz; to North America 0030-0100 on 15100, 11690, 9610, 7215, 7150, 5980; and at 0300-0330 on 11860, 9780, 9580, 7400, 7245, 7215 & 5980kHz. Cecil Symmes

NEW GERMAN SW BROADCASTER. Since 1/77 the West German external broadcasting organisations Deutsche Welle and Deutschlandfunk (MW & LW only) have no longer broadcast in the same languages to East and Central Europe. DW is now responsible for Serbo Croat & Romanian, DLF has editorial responsibility for all programmes in Polish, Hungarian, Czech & Slovak. BEC MS(c) The new Deutschlandfunk programmes are transmitted via DW facilities as follows: Polish 0600-0630 on 7130 and 6010, 1245-1320 on 6065 & 7130, 1730-1830 on 7130 & 9610kHz; Hungarian 1200-1230 on 6065, 6145 & 7130, 1930-2030 on 7285 and 9610; Czech/Slovak 0530-0600 on 7130 & 9610, 1100-1150 on 6065, 6145, 7130kHz, 1830-1915 on 7130 & 9610, 2030-2115 on 7285, 9610. BC

AZORES The 4865kHz broadcasts of Radiodifusao Portuguesa, being heard so well in Europe and USA, may result from the installation of a new 120kw transmitter, according to a reliable source. NASWA

PAPUA NEW GUINEA's NBC went commercial on 1 March. No alcoholic or cigarette advertising, or paid political broadcasts are permitted, but free coverage will be given to recognised parties at election time. BrW

## market square

FOR SALE: Trio 9R59DSM communication receiver, 500-30,000kHz continuous coverage, crystal calibrator, plus factory mods, tape out socket, spare set of tubes, original condition handbook. \$180 freight paid. Write H.J.Searle, 2 Shrimpton Rd, Haumoana, Hawkes Bay.

RADIO GAROUA, Cameroun, will shortly raise power from 30 to 100kw and operate from new facilities. Schulman NASWA

## NEW ZEALAND RADIO DX LEAGUE

### ADMINISTRATIVE OFFICE

P.O.Box 1313, Invercargill

All queries re membership, policy matters, stationery requirements, subscriptions & competition awards, should be addressed to Invercargill.

### EDITORIAL OFFICE

P.O.Box 2956, Wellington.

Only queries relating to content & distribution of the Times should be directed to Wellington.

Closing date for contributions is usually 5pm on first Monday of the Month. Advertising: 50 cents for up to 30 words. Other rates on request.

### ANNUAL SUBSCRIPTION: NZ\$5.00

Joining fee surcharge of \$1.00 for new members only. Overseas rates available from Invercargill.

IBA JERUSALEM is offering a limited number of station pennants. To qualify for one, you must meet one of two criteria: (i) as a DXer, for completely & correctly filling out an IBA shortwave reception report sheet, that is, 20 reception reports in the same calendar month. More than 1 report of any given frequency within a 30 minute period will not be counted. The Home Service relays on SW will also be counted for this exercise. (ii) write a letter to IBA with interesting comments or questions, which is subsequently read on the "Calling All Listeners" mailbox programme. Address is Israel Broadcast-ing Authority, P.O.Box 1082, Jerusalem Israel. Cecil Symmes

RADIO NORWAY's English schedule include -s Sundays 0800 on 6015, 11875, 11895 & 15135; 1200 on 21730, 11850, 17715 and 15175; 1800 on 11850, 15345, 15175, 15345; 2000 on 6015, 11860, 15175; 2200 on 9645, 9550 & 11870; Mondays at 0000 on 6180, 7240; 0200 on 6180 & 7240; 0400 on 6180 & 9610; 0600 on 15175 & 11870. CC

BELGIAN RADIO will have EE 0015-0045 to North America on 9725kHz till 3 April. Frequency will then change to 6080kHz.

NIGERIA's widely reported 4900 outlet is apparently a new 50kw transmitter installed at Sogunle to replace the 20 kw outlet on 4990. The 4900 frequency was due to a misalignment fault, which has now been rectified. SCDXers, BEC MS

REMEMBER - CLOSING DATE NEXT ISSUE

MONDAY 28 MARCH.