



NEW ZEALAND DX TIMES

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NEW HEBRIDES RADIO MYSTERY

Still providing good reception in NZ since first reported by Arthur Cushen on 20 January, the New Hebrides station purporting to broadcast from the major island of Espiritu Santo has largely remained a mystery. With a name like Radio Canabu (or Tanabu?), the station is heard on 3975kHz and 7120kHz until sign-off at 1000 GMT. All programmes are in a pidgin language, probably the local Bislama dialect. The only other news of the station comes from Aussie DXer Robert Yeo who is quoted in NASWA's February Flashsheet as having heard an identification for the Voice of Nagriamel.

Your editor has been checking recent copies of the "New Hebrides News" and "Pacific Islands Monthly" in search of leads as to the station's aims, operators and actual location but with little success. Yet it is possible to theorize, given an insight into current happenings in the New Hebrides.

The political situation in the New Hebrides has been hotting up since elections on 16 November last, when the National Party gained 17 of the 29 'peoples representative' seats in the governing assembly. Their platform included a pledge of self government for the British/French condominium by 1977. One of the losers in the election was the Nagriamel Party, led by Jimmy Stevens, who has since contested the validity of results for 6 Santo seats.

Nagriamel, with the possible support of the Manh Party, apparently made a unilateral declaration of independence for Santo and other northern islands of the New Hebrides, following demonstrations in Santo on 27 December. Mr Stevens named 1 April 1976 as his date for full independence and also final British withdrawal from the 'rebel' islands. He has even sent an envoy to the United Nations seeking support on these issues, but without success. In mid-January Nagriamel's 'Foreign Minister' was in Fiji seeking recognition for the new state of Santo and claiming that his federation now ruled all the islands in the north of the group. Their flag has been announced - it depicts the party symbol - the Nagria and Namele plants, with a black and a white hand clasped in racial unity.

The "New Hebrides News" of 9 February offers a possible clue to the people behind 'Radio Canabu' - it suggests that Nagriamel is completely financed by a group of American land speculators, including people who unsuccessfully tried to establish the Republic of Minerva on reefs 450 miles south of Fiji in 1972. That venture was thwarted in June 1972 when Tonga claimed sovereignty over the reefs. Certainly the station appears well organised and to possess some reasonably sophisticated transmitting equipment.

Till something concrete is known, we can but speculate. Certainly events in the New Hebrides do not appear to have featured in our papers of late and the station seems destined to be ignored by the "New Hebrides News" itself. We await developments in an interesting episode in this radio age we live in.

CLOSING DATE FOR NEXT ISSUE: MONDAY 5 APRIL. DETAILS OF YOUR DX, QSL's, LADDER TOTALS, CONTINENTS LISTINGS TO P.O. BOX 2956, WELLINGTON, NZ.

2 FROM THE BRANCHES

SOUTHLAND The February meeting was held at Tiwai with most of the time spent in listening. Signals from both North and South America were received. A short meeting was held, with VP Wyn Machon in the chair. Major items discussed were the Weekend at Riverton Rocks, painting of the Tiwai house and erection of more aereals. Competitions: CCB to Sutton Burtenshaw WHSL NC 1490 250w and merit WMBM Fla 1490 250w. Rest of the World - Ray Crawford Surabaya 1165 500w. SW to Lindsay Robinson with Tunisia 11970 and Yemen 5805kHz.

OTAGO 6 members attended the February meeting at Des Mill's. Ash gave a talk on The Convention, illustrated by slides. A detailed description of the Racal receiver was given. Some good QSLs were on display. Competitions: CCB to Ash Nallawalla Radio Fantasia 1550 5kw and KFVS 960 5kw. SW to Jonathan Aitchison with VOA Liberia 6080 and Radio Nederland, Madagascar 17810kHz.

WAIKATO/BAY OF PLENTY A successful meeting was held on 14 February with 6 in attendance - Bob Harmer, Peter Manuel, David Feldon and Colin Campbell of Rotorua, and David Miller and Michael Smith from Matamata. There were 6 apologies. The meeting, chaired by David Miller, discussed ways of publicising the hobby and attracting members to the League. The display panels used in the Rotorua publicity were shown, and Michael Smith has taken one for display in the Matamata, Te Aroha and Morrinsville areas. Colin Campbell was authorised to seek a site around Rotorua for a branch listening post. A Rotorua meeting is planned for March and the next area meeting will be held in May at Matamata. Competitions SW to Bob Harmer RTA Algiers 17880. CCB no entries this time.

WELLINGTON The February meeting was held at Bryan Clark's with 17 attending, including welcome visitors Michael Cundy, Daryl New and Rolf Huyser. Convention 76 was the main topic and correspondence received confirmed that it was highly successful. Other topics.. 'Capital DX' will continue; trial evening meetings will begin this month; the branch is to join the 'Friends of Tatum' with a view to using the Convention site again in the future; Philip Brooks of Wanganui was made an honorary branch member in recognition of his assistance at Convention; a questionnaire on local radio interference problems is to be sent out; 3XF Radio Ferrymead was logged over afternoon tea. Competition results: SW Senior Bryan Clark Yemen 11770. SW Junior Paul Edwards Brazzaville 15190 and Seychelles 15325, Fred Humphries Malawi 3380. CCB to Fred Humphries with KJNP Alaska 1170 and JOAK 590. Pilot quarterly DX competition won by Paul Edwards (SW) and Bryan Clark (MW). Next meeting at Bruce Williams, 82 Pirie Street at 2000hrs on Friday 26 March.

FROM HEADQUARTERS

NEW OVERSEAS SUBSCRIPTION RATES Effective immediately, in NZ dollars.

All overseas countries by surface mail - \$6.50.

Airmail to Australia/South Pacific - \$7.50.

Airmail to North & South America, Europe, Asia, Africa - \$10.00.



CONTINENTS LISTINGS March was the month for the twice-yearly listing of verifications by continent. Only five members remembered, but as we forgot to remind you last month, this column has been postponed till next month. Depending on support received, the future of this feature will be reviewed. Refer June & September 1975 for data.

1976 WORLD RADIO TV HANDBOOK reached Magcom by airmail on 24 February. Surface orders will be here in a few months. Once again we unreservedly recommend the WRTVH as an indispensable aid to every DXer and SWL. An added bonus this time is a photograph of our National President!

NELSON AREA MEMBERS. Brent Allred, P.O.Box 192, Motueka would like to establish contact with other DXers in his area, with the long-term aim of establishing a branch of the League. In the spirit of World DX Club Year 1977, drop Brent a postcard now!

BROADCAST DX

with Bryan Clark 3

Another bumper month on the broadcast band and we thank all the loyal contributors who provide us with so much interesting news. Certainly MW DX is alive and well in New Zealand!

Top story this month is the short-term licence granted to Radio Ferrymead 3XF on 1030kHz on 28 and 29 February. Unfortunately our first knowledge of this one came through a brief report in a Sunday newspaper on 21/2, but our thanks go to David Ricquish for circularising the branches at short notice with all the details. 3XF, with a maximum output of 100 watts, was operated by Radio Avon during a gala day weekend at the Ferrymead Trust Museum in the Christchurch suburb of Heathcote. In keeping with the site, the station had a vintage radio theme with music, comedy and documentaries from the 1930's, 40's and 50's. 3XF gave surprisingly good daytime reception here in the capital, while at David Ricquish's New Brighton location, 4 miles from the transmitter, they the strongest signal on the band. If you haven't sent your reception report yet, the address is Radio Ferrymead 3XF, c/- Radio Avon, P.O. Box 1290, ChCh.

Radio U, 3XB transmitted from studios in the Ngaiio Marsh Theatre at Canterbury University between 23 February and 6 March. Here again the power was 100 watts maximum but reception proved very difficult in Wellington and Invercargill, and the 7pm closedown on weekdays didn't help from a DX point-of-view. David Ricquish advises that no QSL cards have been printed, so a prepared card is suggested. Reports to Mr Howard Amos, Radio U, Students Union Building, University of Canterbury, Private Bag, Christchurch.

Latest from the Australian scene is that 1390kHz is clear following 4BH's move to 880kHz with 5kw directional. 4NA has also moved, from 940 to 830, with 5kw D. New occupant for 1390 is 5AA Adelaide due to commence regular transmissions on Sunday 14 March, but watch for tests prior to that date. Expected to run 24 hours. Address GPO Box 1001, Adelaide 5001. Eventually 5kw D. Info per C.M.

Graeme Shillito noted Radio Fiji on 850kHz parallel to 710kHz on 19th & 20th February and we recall Gavin Bennett's similar report for 910kHz last August. One wonders what is in the wind. Surely the existing transmitters are providing a more than adequate coverage, considering the way they boom in here! Also from the Pacific, David Ricquish has the first official communication from Radio Tuvalu, or rather the Chief Minister of Tuvalu, Mr Toalipi Lauti, who confirmed that they are operating on 580kHz. Test transmissions began in the first week of July 1975 and full-time broadcasting began on 1 August.

Into the mail and first up is the fellow who wrestles with all those figures in the League Ladders every second month:-

RAY BABBAGE Wellington has reported KOHO, KPNW, KUAI, WVUV (8th try!), Fiji 810, VSZ1 844, 3XF Ferrymead 1030. QSLs from Windy 890, KJR, WBAP, ZCP, 3EA 5SY, 5RM, 6DL - some of those logged in Aussie.

DAVID FELDON Rotorua has verified WBAP (in 2 months, IRC returned) & 1ZA. Logs- Radio B 950, Windy 890, 4BK 2YW and 2YA. David reports encouraging results with loop.

ARTHUR CUSHEN Invercargill has logs from Tiwai of Reloj 1360, Ecos del Combeima 1025 & Radio Rey 1450.

GORDON HUTCHISON Kaiapoi has logged WNS1, KPOL, 3XB Radio U. No QSLs. As noted above Gordon, we received no..

GORDON HUTCHISON continued...info regarding Radio Ferrymead in time for last month's Times. XERF in EE 0635 4/3.

MIKE SMITH Matamata has no reports out, but the postie has still rewarded him with QSLs from WGN, WBBM & CKLG. Good!

PHIL BROOKS Wanganui has logged 2XW 890 and Ferrymead 1030. Veries are 1ZU, 2XW 890, PJB and Paradise 1265. Congrats on 2 new countries. Recommend that you write to John Gilbert & Co. in Auckland re yr Trio dial. Check phone book for address.

LINDSAY ROBINSON Invercargill has had a quiet month - 1 report to Windy 890.

GRAEME BAMFORD Tauranga has QSLs in from 1ZA, ZC, ZD, 2SM, Fiji 710 and WBAP.

BRENT ALLRED Motueka has reports out to Windy, 2ZG, 3ZB, 4ZB & veries from 1XI, ZM. Slow but steady can win the race Brent!
FRED HUMPHRIES Wellington has QSL'd KJNP!

CHRIS MARTIN, Sydney has QSLs in - 4
LWP,QR, 2UH,ZH,ZB, Iasi 1052 and AIR
Gorakhpur 910. Logged at Tiwai were
4XD,WHO,CMW,KSTP,HJCV,HJLK 1230. At
Coffs Harbour,NSW logged 4HU,BH 880,
4AY,CD,NA 830,ZR, 2GF,NB, 6PR, 8AL,
KNDI, Paradise 1265,KGER,KTWO,1ZT,
Lille 1376,Peking 1210,Vinnitsa 1546
JOHB,Rome 1331,Qatar 952 and Vila
1421. Last week July perhaps Chris?

DES DAVEY Te Kuiti has reports out
to KGMB and KORL. Hope fishing has
resulted in some QSLs Des!

PAUL ARONSEN Invercargill has report
-ed 4YQ, CMJG, KXYZ, Paradise 1265.

BRYAN CLARK Wellington has QSLs in
from WSUN 620 & KCRG 1600. Relogs of
DW Malta 1570, LR3 Belgrano 950 and
Colosal 1005. Logs 3XF and 3XU.

RAY CRAWFORD Invercargill has logged
LWP, 8AL, 3XB Radio U 1230, Iraq on
1196, KAYC 1450, HJHK Radio Bahia
1420, Rey Ecuador 1450 (per WRTVH 76
our unid of last month Ed). QSLs
KAYC JOJK 1220 & Radio Rajawali Sur-
abaya 1165 500 watts.Good lot Ray!

PAUL ORMANDY Oamaru puts us all to
shame for another month.Convention
logs: 2GF,AY, 5KA, JOUB, Haeju 625,
JOLK,Singapore(which freq Paul?),AIR
1070,Commercial Radio 610, Kinchaek
800, XESM, 6DL, ZZX1,DWRF,AFNT 1550,
JOQM,Hong Kong 545,Rhodes 1259, CFRB
(tent),Turkey 1016,Munich 1602, Mon-
acc 1466. At home - KKHI,KATZ,KCRG,
KFRE,3XU 1230, Fiji 930,680,640,1320
CMAN,XEGM,KGMB,HJFN 'Radio Pereira
Cafe' 950, KGO.At branch shack -
WLW and KRMG. QSLs are 2GZ,CA, 4BK,
QB/QO, KGIL, WCKY, ZK1ZC, 4IP and
Kuwait 539. Re our query last month
on WESR - Paul comments they were on
late with a tidal wave warning.

DENE LYNNEBERG Titahi Bay has logged
3XU 1230 and 3XF 1030. Last months
QSL JODD 1530 should have read JODO.
Sorry Dene. Typist reprimanded, hi!

BRUCE CAVANAGH Invercargill hasn't
any QSLs this month but is trying to
rectify the problem with reports out
to Paradise 1265,KOB,Malaysia 1220,
4MB,2AD,CFRN,4YQ,KORL,2VM,KEX,Windy
890,Thailand 625 and 7HO. Please
write direct to Nigel Robins for
booster order.

BRIAN WITHERS Christchurch logged
KFAB at convention. At home - 2XW
1080, 3XD Radio U 1230 and 3XF 1030.
QSLs KFAB & 2XG 1230 (They were on
890 Brian. Is Radio U 3XB,3XD or XU?)

SUTTON BURTENSHAW Invercargill has logged
Reunification 1133, 2XW 890, 7BU, XESM
(2nd) & XEJP 1150 (3rd). QSLs: 2XW,KMPS,
Quazvin 557,KVEN 1450,WMBM 1490 and WHSL
1490, last two by prepared card. Great!

MIKE SMITH Matanata's logs for January
were KPOL, KFBK, CMW 590, KTWO.

BRUCE OFFICER Christchurch notifies logs
as KDAY,KEX,KOB,WBZ,WLAC,KPOL,Windy 890,
XERF,KVOO,KRLD,3XF Radio Ferrymead,Radio
U 1230, KNBR, KABC,KOA,KGBS. Replies in
from KFRC,KFBK,KNX,Moscow 1250. Bruce is
now using a Trio 9R-59DSM. A good select-
ion Bruce. There's plenty more too!

ASH NALLAWALLA Dunedin has Convention
reports of KXEL, WXLE,VQO,5KA,2GF,KTOM,
KTWO,JOUB,North Korea 625,800,JOLK,JOKK,
Reunification,Hong Kong 610, Singapore
790,KPOL,KALI,KDAY,WBZ,WLAC,KEX,WSZD,4GY
7SD,2MO,4KZ. Logged at home - Funafuti
580,KRLD,KSCO,2RG,AD, JOQR,Vladivostok
1250(again). Veries back from Noumea 670
2HD,MW,LM,RO, Rajkot 1070, VQO. Busy!

PAUL RAWDON Lower Hutt has been active
too with reports off to KRLD,XEX,XEPRS,
XEROK,KVOO,WLW,KFAB,singapore 790 and
3XF Ferrymead 1030. QSLs: CKLG,KGIL,7AD,
Fiji 890,KABC.

CHRIS MACKERELL formerly of Nelson,but
now in Christchurch for University stud-
ies, made the following logs before de-
parting Nelson: KEX,KVEN,KTOM,KXEL,KRLD,
KXYZ,KSL,KCPX,ZNS1,KGMB,KORL,2HD,NZ,NX,
LF, 2XW 890, 3UZ,4GY, WVUV, JOUB. (thats
the best set of logs out of Nelson for a
long time Chris!) Radio U 1230 logged in
ChCh. 1 QSL in from KXEL. Good luck.

GRAEME SHILLITO Dunedin reports a good
8th American opening on 24/2 with logs
of QAX4A 854,Argentina 950,HJCV 1190 and
Colo Colo 1380. Other reports are Nice
1554,Windy, DW Malta 1570 & 5th to 2ZM!
Veries:6XM,CA, Albania 1088,JOVR,JOTG,
KATZ,KRKO(18 mths) and 6BY(ppc).

ANDREW WHITE Christchurch advises no QSLs
but reports to KRLD,KTWO,WSB,WGY & 3XF.

ROBERT SCOTT Te Aroha advises reception
of KABC,KHVH,KIKI,KRMG,KGU,XEROK,KTWO,
VQO 1030,KFAB,WBAP. A report out to CKLG.
Robert recommends checking morning recep-
tion during the 5 days peak of our
equinox - his research suggests 1800 GMT
GMT 19/3 for Europe/Arabia; 20/3 Europe/
Nthern Hemisphere/Nth USSR etc; 21-22/3
Arabia/Nth Africa/Europe/USSR/Asia; 23/3
Southern hemisphere/Africa,particularly
south of Kenya. Thanks for info & holiday
news Robert. 2ZD studios are in Masterton
Dont see why multiple reports to Wgtn
wculdnt work. 1030 is WBZ with talk.

BROADCAST TRAIL

MORNING

550 6DL mixed 4KZ 1310 fair. PO. AN
 545 Hong Kong 1644 off 1700. PO BC
 610 Hong Kong in CC 1418 poor. AN PO
 JOLK in JJ fair 1428. AN PO
 625 North Korea poor 1334 in KK "
 674 AA good 1645 - Qatar? RCh
 728 Unid AA with exc sigs 1720 RCh
 773 Cairo exc with pops 1730. RCh
 790 Singapore EE fair 1441. PO. AN. PR
 791 Russian here good 1730 RCh
 818 Cairo fair at 1730. RCh
 845 Russian fair 1740. RCh
 854 Bucharest excellent 1625. RCh
 872 Russian good 1810. Other Ruskiess
 on 1088 & 1097 both with clas-
 sical mx good 1740; 1493 exc
 at 1745; tentatives on 1007 &
 1043 around 1820. All RCh
 926 Izmir good mixed RR 1805-1830."
 955 Burma vg EE/Burmese 1455. PO
 962 Tunis poor 1740. RCh
 1038 Babylon good AA 1825. RCh
 1052 Iasi, Roumania good 1810. RCh
 1061 Diyabakir good 1815. RCh
 1106 Batra, Egypt strong regular. RCh
 1115 Italian chain fair 1747-1815."
 1124 Russian good over Libya 1740."
 1130 KLEI s/on at 1700. RCh
 1133 Kuwait excellent in EE 1745. RCh
 1151 Cluj good but heterodyn'd 1815"
 1196 Iraq good 1630. RCh
 1223 Vidin, Bulgaria good 1745. RCh
 1259 VOA Rhodes in AA fair 1705 PO
 1412 BBC Masirah good 1830. RCh
 1448 New RR? mixed Italy 1830. RCh
 1450 JOQM network id 1600 fair. PO
 1457 Albania in CC over Craiova 1730
 1550 AFNT Taipeh good in EE 1550. PO
 1570 DW Malta into Turkish 1800. BC
 1580 VOA Thailand exc EE 1558. PR
 1602 BR Munich 1721. PO. Strong 1805 RCh

EVENING

540 XEWA good in SS 0820. RCh
 550 KTSA and KMVI mixed 0750. RCh
 CMAN Cuba poor 0940. PO
 580 Funafuti 0755, 0825 fair. AN. RCh
 590 CMW Radio Habana id 0940 good "
 600 KOGO thru Cook Is, fair 0815. AN
 CMKV fair 0851. PO
 605 Campesina, Guatemala 0850, fair RCh
 610 KFRC good at 0745. RCh
 620 WSUN fair 0830. AW
 650 KORL exc 0730. AW. fair 0900. PO
 670 WMAQ good 0750. AW
 690 KKUA & another over 3YA 0740 RCh
 700 Sutatenza good over Aussie 0925
 using loop/longwire. RCh
 710 KIRO thru Fiji 0715. AW
 720 KUAI mixed WGN over 4YZ 0755 RCh
 730 XEX fair 0830. RCh. Good 0824. PR

730 CKLG strong 0745. RCh
 740 KRMG good 0855. PO
 750 WSB Blockbuster Show vg 0740. AW
 770 KOB mixed with WABC 0725. RCh
 780 KCRL sign-off 0802 mx'd 4YA. RCh
 790 LR6 fair under Aussie 0812 26/2 BC
 800 North Korea poor-fair 0950. PO AN
 810 WGY continuous mx, strong. Annts
 0715 and 0730. AW
 KGO good 0730. PO
 850 KOA excellent 0720. RCh
 854 OAX4A good 0755. RCh. vg 0820. BC
 870 LRA Buenos Aires over 2GB 0818
 26/2, fair. BC
 900 CJVI good, dominating 0800. RCh
 940 KFRE over NZ fair 0809. PO
 950 LR3 Belgrano peaking vg 0822 24/2 BC
 HJFN SS "Radio Pereira Cafe" 0827. PO
 XEGM comedy prgm 0830 fair. PO
 KPRC "Radio 950" s/off 0705 20/2 RCh
 990 XET good regular 0700. RCh
 1005 Colosal fair 0715 17/2. BC. 0755. RCh
 1010 Radio America regular under NZ. BC
 1020 KGBS good 0830. PO
 1025 Ecos del Combeima good 0815 13/2
 RCh. fair, deep fades 0730 17/2. BC
 Good 0900. RCh
 1030 VQO Honiara EE mssgs fair 0850. AN
 1034 CSB2 Lisbon fair 0820. RCh
 1055 Voz del Centro briefly fair 0740. BC
 1080 KSCO s/off 0733. AN. KSCO/KRLD 0715.
 1133 Voice of Reunification 1134 in KK./
 1230 Calidad often good 0800. RCh. AN
 1265 Paradise always good s/on 0900. Many
 1260 KGIL good 0655. RCh
 1270 Relogio Nacional good 0700 21/2. RCh
 KNDI noted good., 0755. AN
 1300 SS here mixed, fair 0710. RCh
 1390 4BK carries American Top 40 0810
 Saturday. Don't get caught! BC
 1320 KXYZ & WVOJ 0730 21/2. RCh
 1360 WKMI fair 0805 clear ident. RCh
 KRYL 0730 with Wx, C&W 21/2. RCh
 1385 WXLE 0831-0933, 1100-1150 poor. AN
 1420 HJHK good mixed 120 0740 21/2. RCh
 1430 KALI with SS nx, good 0730. AN
 1510 WLAC blues, jazz 0655-0722. AN
 1540 Radio Bahamas vg 0740. BC
 KPOL many ids, good 0705. AN
 1550 KKHI classical good 0830. PO
 1580 Unid SS 0700, KDAY over by 0715. BC
 1600 KATZ full ident 0800 with KCRG. PO

Thanks to Paul Ormandy, Ash Nallawalla,
 Bryan Clark, Robin Chambers, Paul Rawdon
 Ray Crawford, Andrew White.

MAILBAG conclusion.. DAVID RICQUISH ChCh
 has logged 2XW 890, 3XB 1230, 5XF 1030, Tir-
 ana 1214, ZK1ZC, Istanbul 1016, Hong Kong
 545. QSLs 2XW, ZK1ZC, Funafuti 580, WLW.

ROBIN CHAMBERS Opunake has verified 4TO,
 Lille 1376, Malacca 1160, Fiji 1470. Logs
 Combeima 1025, Fiji 1470, Italy 1115, 2ZG,
 1ZA, 1ZU. Sorry for the squeeze Robin!

BEST OF THE MONTH

SENIOR WHSL Wilmington, Nth Carolina.
1490kHz 250 watts
175 points.

Congratulations to Sutton Burtenshaw
on an excellent winner. Hard to beat!

JUNIOR Radio Paradise, St Kitts, W.I.
1265kHz 50kw
131 points.
Philip Brooks, Wanganui.

CEDAR RAPIDS TELEVISION COMPANY

KCRG-TV-9-RADIO 16

2ND AVENUE AT 5TH STREET SE
CEDAR RAPIDS, IOWA 52401

Rick Sellers, Program Director at KCRG, advises that the station has been 24 hours on 1600kHz since 12 January. He sends best regards to all members of the NZ Radio DX League and comments:

"Do you collect radio jingles? I am a fanatic about about radio jingles; if you at all do collect same, let me know....we could get a decent exchange going."

Ye ed is not in a position to do so, but there may be another member interested. If so, write to Rick at the address above. **BC**

WHAT IS A CARDIROID ARRAY?

Further to last months article, Robin Chambers advises "I have found that the coil/tuning condenser works better in parallel in both the illustrated circuits. If the series arrangement (as illustrated) gives a peak instead of a null, then change to tuning condenser & coil in parallel. And the same applies the other way around."

NITECAP NETWORK operated by the Mutual Broadcasting System, is a telephone talk show hosted by Herb Jepko. Key station is KSL 1160 from Salt Lake City but NZers can get regular reception courtesy of KRLD on 1080 from Dallas, Texas. Others in the network include: KTRB 860, KIAK 970, KTAR 620, KFOX 1280 KPSI and KVEN 1450, KXRX 1500, WHAS 840 WBAL 1090, KOHU & KSCJ 1360, KGMI 790, KENE & KVAC 1490, KIRO 710, KPRO 1440.

Info per **NRC**

Also from **NRC**....

Canada has new federal regulations effective September 1976 designed to curb radio interference. Motor vehicles, motor bikes etc will require alteration.

6 BROADCAST BAND NEWS FROM EUROPE

HOLLAND Radio Veronica, the former offshore broadcaster, will have the opportunity to become a legal entity within the Dutch broadcasting scheme. The Minister of Culture has recognised Radio Veronica as an "aspirant radio organisation" and since 1 January, 3 hours broadcasting time a week has been allocated over Hilversum IV. From April 1 Radio Veronica Omroep Organisatie will also get 1 hour's TV time each week. Within a year Veronica has to enlist at least 100,000 members in order to qualify for a 'C-licence'. Last September the organisation already had 60,000 members. **SCDXers**

FRANCE The France-Inter is networked thru 10 regional centres on 1594, 1554, 1493, 1484, 1241, 1160, 1070, 584 & 539kHz. Also via Lyon 710kHz with 300/150kw. France-Culture network aired thru: Nice 1349, Strasbourg 1277, Bordeaux 1205, all with 100kw; Lille 1376, Paris 863, Limoge 791, Renne 710, all with 300/150kw; Nancy 836 200/100kw; Marseille 674 150kw; Toulouse 944 100kw. **BBC MS (c)**

YUGOSLAVIA Continental Electronics of Dallas Texas have delivered a 2000kw broadcasting transmitter to Radio Belgrade. Full power transmissions are planned for early 1976 and the makers claim that the project will be the most powerful broadcast transmitter in existence anywhere in the world. Freq. expected to be 683kHz. **BBC MS (c)**

Radio Zagreb is planning for a 1000kw transmitter in Dalmatia to enable their broadcasts to be better received in Northern & Western Europe. **BBC MS**

The setting up of a high-powered "Radio Yugoslavia" has been approved, with the basic task of informing foreign countries about events in Yugoslavia, about the policy of non-alignment and of Yugoslavia's stands on international problems. **BBC MS (c)**

ROMANIA Domestic programme I is 24hrs on Bacau 1430 50kw, Timisoara 1313 30kw Lugoj 755 400kw & Bucharest 602 14kw. Programme II aired 0400-2300 by Cluj I 908 50kw, Cluj II 1151 950kw, Constanta 1457 50kw, Timisoara I 629 135kw, Timisoara II 1313 30kw, Iasi 1052 1000kw, Miercurea Ciuc 944 14kw, Bucharest 854 750kw, Satu Mare 566 50kw, Targu-Jiu 557 200kw & Petrosani 529 2kw. **BBC MS (c)**

PACIFIC ASIAN REPORT

7

CYPRUS. BFBS is on 899kHz, ex 890kHz which was in turn ex 881kHz. Sunspot

SARAWAK. Radio Malaysia is using the following new frequencies, all with 20kw: DSWCI via NRC
549, 820 and 1210kHz.

OMAN Broadcasting Service is using 1035 and 1240kHz with 100kw. EE is planned for 1272kHz with 20kw. DSWCI via NRC

JORDAN. A new MW transmitter at Ajlun is testing on 593kHz in parallel with the English service. BBC MS(c). 912kHz with 1200kw is also testing.

ISRAEL. Jerusalem 529kHz 100kw and El Arrish 1439kHz 10kw are new. WWDXC
The latter frequency has been observed parallel to 656kHz. Sunspot

SAUDI ARABIA. Muzia 702kHz with 50kw is new. MWC via NRC

PAKISTAN. Radio Pakistan is testing its new 1000kw transmitter. A. Abbasi SCDX
(According to WRTVH 1976 this is presumably Islamabad on 580kHz)

INDIA AIR Mysore is on 1400kHz. AIR was due to switch Bombay and Delhi MW stations to FM during 1975. Madras and Calcutta stations are due to change in 76. Distance/Sunspot

THAILAND. All foreign language broadcasts from Thai commercial & military stations have been stopped, as they were found to be unlawful. Only the official Radio Thailand is allowed to have foreign language prgms. Lars Ryden SCDX

IRAN Quazvin 557kHz is now 2000kw. DSWCI via NRC

PHILIPPINES. DWOK 830, DZFE 1030, DYAF 1230 and DWIM 1500 have been closed. The government is going to make changes in the radio regulations which will reduce the number of radio stations. New frequencies are DXSS on 730 ex 830, DYRZ on 1300 ex 710. Distance/Sunspot

HAWAII From Alan Roycroft, via Chris Martin: KIPA 620 is 5kw since 2 March. Is in Japanese from 1500 to 1200 GMT but extension to 24 hours a possibility. KNDI 1270 will test a new transmitter and antenna system from a new site in April. More details promised. KVH and KPOI are jostling for a frequency change to 1010 or 990kHz. Only one can win this.

AUSTRALIA. 3MP Mornington Peninsula Broadcasters Ltd is expected on 1370kHz in August 1976 with 5kw directional, 24 hours a day. An unsuccessful applicant for this licence was Port Phillip Radio Pty Ltd, a subsidiary of Ansetts. BC

The ABCB intends publishing station coverage maps for general information of the industry and others interested. Sets of maps will be published separately for both national and commercial stations. Each set will consist of 8 maps covering the whole of Australia. MB

4JK 570 uses 2 STC type 4-SU-105C high level modulated transmitters each producing 5kw and combined in parallel via an STC Combining Unit to produce 10kw to line. The aerial system consists of 2 towers, about 650 ft high, top loaded, spaced 432 ft apart, the axis of which lies along a bearing of 345° true direction. The power feeds are so divided and phased to produce a cardioid radiation pattern with the two major lobes pointing in the 345° true direction. Info from letter verie from J.D.Hack, OTC Technical, Radiocom. Centre, A.T.C., P.O.Box 1921, Mount Isa, Queensland 4825. R.Chambers

2SM 1270 is sked off-air on the morning of Good Friday (1400-2200 GMT on Thu 75 April GMT) in accordance with station policy. Station comments that IRCS are not required from NZ listeners as they're too difficult to redeem! CM

IRAQ The domestic service "Voice of the Masses" programme is now heard on a new frequency 1195kHz from 1400 to 1900 GMT. BBC MS (c)

BROADCAST MAILBAG. One late comer - LAURIE BOYER Invercargill advises loggings of Kuwait 539, Sharjah 1575, Cyprus 1232, Iran 557, Bangalore A 610, Egypt 620, Saudi Arabia 587. Veries: VOA Rhodes 1259, Windy 890, Cook Is. 600. Laurie comments that he QSL'd KFVS 960 back in 1954...this is reply to AN's query of last month. Thanks for trail notes Laurie. Will hold for next month.

CAN - AM REPORT

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URUGUAY SODRE will have new MW transmitters within 2 years. CX6 650kHz will become 200kw; CX26 1050kHz and CX38 1290kHz each increase to 50kw. BEC MS (c)

USA Latest by courtesy NRC's "DX News".

670 KDLG Dillingham, Alaska is on air 5kw days/1kw nights.

680 Barrow Alaska 10/5kw authorized.

720 KDWN seeks 50kw nights up from 10kw

740 WJIG Tennessee seeks WBGY call.

790 WEAQ Wisconsin is 24 hours.

890 St George, Utah new fulltimer granted 50/10kw directional.

910 KGLC Ok is 24 hours NSP.

KIKM Texas ex KRRV.

WSBA Pa 24hrs S.P. 0800-1100 GNT Sun

1030 WBZ's all-night talk show host is Larry Glick.

1080 WKLO Kentucky is 24hrs NSP.

WZTQ WV new call ex WPNS.

1090 WQIK Florida seeks WCMG. Is 10kw D3.

1100 KFAX Calif seeks 50kw S.H. nights DA2

1170 WWVA WV is 24 hours S.P. 1st Sunday

1260 WNOO Tn seeks 5kw days.

1280 KRZE NM is in UPI network.

1320 WVOJ Florida is 24hrs NSP.

1330 WFTF Florida is 24 hours.

WHET Ma is 24 hrs ex WCRB.

1360 WCHL NC seeks 5kw/2.5kw.

1380 KBWD Texas s/off MM 0058 ELT.

KCIM Indiana s/off 0102 ELT.

KUDL Kansas is NBC Network.

WDAT Florida CP U4 5kw/1kw.

1450 KCLD Mn ex KFAM.

1490 Green River, Wyoming 1kw/0.25kw auth.

WVIM Ms seeks new call WJFL.

1530 WHYY Alabama seeks move to 1190.

1600 KCFH Texas seeks KEWS.

KLAT Utah seeks new call KLRK.

KWKW 1300kHz idents in SS as "Radio Trece" as does co-channel Mexican XEP.

The American FCC is again eyeing the white spaces on its broadcast map of the USA and it could propose some 'super' radio stations to fill them - with suggestions of 750kw stations located at New York, Atlanta New Orleans and Chicago. Some 22 million people in remote areas of the US do not have adequate radio coverage. Another alternative is to allow further stations to use the 12 clear channels currently used by a single broadcaster. NRC

PUERTO RICO WQII Guaynabo 1140kHz 24hrs with 10kw is all SS with modified top 40 format. WKVM 810 is preparing for increase to 50kw. WKAQ, WBMJ, WUNO & WVOZ are 24hrs Dave Gleason NRC

BRAZIL All official radio stations will form part of a new network "Radiobras", (Brazilian Radio Broadcasting Company), to be established 31 March 1976. BEC MS (c)

COSTA RICA Radio BB is on 1174 ex 1200, ex 1232. SADXC

PANAMA Sistema Estatal de Radiodifusion network has the following new stations: Radio Urraca, Santiago de Verguas 910kHz with 10kw; Radio Guaymi, David 890kHz; Radio Libertad, Bocas del Toro 910kHz.

Another new Panamanian station is Onda Tropical, Chitre 1200kHz. BEC

VENEZUELA Radio Caracas 750kHz has purchased a 100kw RCA transmitter. Sunspot

Radio Latina Valencia 1470 is new. NRC

COLOMBIA Radio Nacional inaugurated a new 50kw station at Marinilla in Antioquia Dept on 28/11. Frequency is 550kHz. BEC MS(c)

HJPO Radio Majagual 1420kHz 10kw is new. Address is Apartado Aereo 542, Sincelejo. Nenson via NRC

SURINAM A projected station is ABC Radio, 1030kHz, 5kw sked 0930-0330. Address: Schneiders, Howardstraat 23, Paramaribo. Distance/Sunspot

NETH. ANTILLES PJB2 Voice of Bonaire is on 1400kHz ex 1385. MWN/NRC

CARIBBEAN RADIO WAR? Radio Caribbean International is to add a 2nd 10kw transmitter to carry EE and FF programmes. The station is under new ownership & management, and has begun French broadcasts to compete with Radio Jumbo for listeners on the islands of Martinique, Guadeloupe, Dominica etc. 840kHz has been increased to 20kw and is on air 0915-0300 GMT. FF programming will be prepared in studios in Fort de France, Martinique and connected by cable to the transmitter located at Castries.

Radio Jumbo, P.O. Box 00, Roseau, Dominica, Windward Islands 1150 50kw, asking for reports. FF programming is heard after 1000 GMT. V/s Patrick Meyer, Directeur General.

Caribbean Radio Lighthouse, P.O. Box 1057, St. Johns, Antigua noted after 1000 GMT with religious prgms. V/s is C.L. Waite, Chief Engineer.

Radio Paradise is constructing a 200 kw transmitter on the island of St. Kitts.

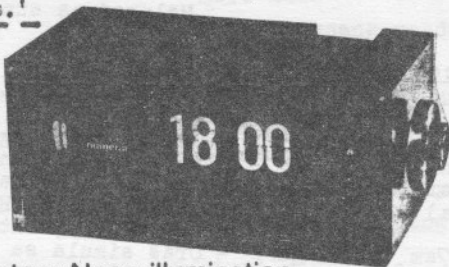
Info per MWN/NRC, SCDXers, NRC

DXCURSION '77

At Convention this year delegates received the first information about our proposed DXCURSION to Guatemala, the U.S.A and Mexico. Catastrophes, both natural and financial have now put a new slant on DXCURSION '77. With the crumbling of Guatemala, and steep increases in fares and accommodation announced recently, it has been decided to shelve the well advanced plans for our DXCURSION to North America until early next year. Our 16 day line-up included stopovers in Los Angeles, San Francisco, Mexico City and Guadalajara, Vancouver and Honolulu; a tour of the fascinating California coast, DX parties and station visits, and sightseeing. We've simply shelved the plans until the economic climate is better - but we would be interested in hearing from you if you would be a starter! Drop us a note to Box 2956, Wellington.

Another trans-Tasman DXpedition could be in the offing next year - wait for the AUGUST issue of the 'Times.'

PIFCO numeral



Digital alarm clock
Mains operated. 24 hour system. Neon illumination

Fifteen digital clocks were sold at Convention - mostly the very useful 24 hour version. We've been able to obtain a few of these 24 hour models in woodgrain finish complete WITH ALARM. Price to the League - \$22.50. Fully guaranteed. Offer closes 30 APRIL

CONVENTION PENNANTS

For those who missed out we've printed a few more! Red on light blue imitation chamois - as sold at Convention.

50 cents post free.

METAL BOXES

4" x 4" x 4½ green hammergeglaze in two pieces.

\$1.00 each post paid



Send cash, postal notes, cheques payable to DX Times -

DX MARKET

P.O. Box 2956 WELLINGTON, N.Z.

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DX MARKET

TUNING CONDENSORS

Two gang. SCOOP purchase - we bought a quantity at auction for the benefit of League members wanting to build loops, ATU's etc. Two gang coverage - 10 pf-360 pf; and 9-90 pf giving you full NW coverage on one gang, and full sweep for maximum peak between 1400-1600 khz on second gang (switched). In the shops for \$2-20 (if you can buy them!) Yours for

75 cents (plus post
23 cents)

or: 4 for \$2 (plus 56c post)

Full loop instructions included.

Bulk enquiries welcome!

BEAT THAT FOR A BARGAIN!

BRAND NEW STOCK!

DXCASSETTE

These are going like hot cakes! Useful index cards for your DX on cassette. Fit in cassette case. 20 for 25 cents plus 10 postage. Also available on paper at 30 for 25 cents plus 10 cents post.

For perhaps the first time in the DX press we publish a basic guide to report a Philippine station in the main language of the Philippines - Tagalog. Medium wave stations in the Republic are not easy verifiers and it is hoped that this information will help to improve the return for DXers.

Mahal na Ginoo,

Malugod kong iniulat ang pagtanggap sa inyong himpilang (1). Ang (1) ay narinig noong (2), 197 sa pagitan ng (3) at (3), oras ng Pilipinas, inihahatid sa kalimitang (4) kHz o (5) metro. Nasa ibaba ang talaan ng inyong palatuntunan.

Oras (Pilipino)

Bagay-bagay

Pagtanggap ng (1) sa (4) kHz ay (6). Ang mga hudyat ay (7). Ang sanhi ng pakikialam ay (8) at (9). (10) ay naranasan.

Ang pananggap na ginamit ay isang (11) na may (12) tubo at ginamitan ng (13).

Inaasahang ang pag-uulat na ito ay magbibigay giliw sa inyo at labis na ikasisiya kung ito'y mapatutunayan sa pamamagitan ng inyong pagtugon.

Hinahangad ang patuloy ninyong tagumpay sa hinaharap na pagsasa-himpapawid buhat sa Pilipinas.

Malugod na sumasainyo,

English-Philippine Vocabulary/Philippine Phrases.

Talasalitaang English-Pilipino/Pariralang Pilipino.

KEY

- | | |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| (1) Station callsign (eg DZBM etc) | - Tawag hudyat ng himpilan (tulad DZBM atbp) |
| (2) Date of reception. | - Petsa ng pagtanggap |
| Months of the year (January, February, etc) | - Mga buwan ng taon (Enero, Pebrero, Marso, Abril, Mayo, Hunyo, Hulyo, Agosto, Setyembre, Oktubre, Nobyembre, Disyembre) |
| (3) Time from (say) 7am to 8.30pm | - Oras simula sa 7 n.u. hanggang 8.30 n.h. |
| Between _____ and _____ | - Sa pagitan ng _____ at _____ |
| (4) Frequency in kiloHertz | - Kalimitan sa kiloHertz |
| (5) Frequency in meters | - Kalimitan sa metro |
| (6) Reception: Very Good. Good. | - Pagkatanggap: Napakabuti. Mabuti. |
| Fair. Poor. | Katamtaman. Masama. |
| (7) Signal Strength: Very Strong | - Lakas ng hudyat: Napakalakas. |
| Strong. Good. | Malakas. Mabuti. |
| Fair. Weak. | Katamtaman. Mahina. |
| (8) Interference from (name of station) | - Pakikialam buhat sa (pangalan ng himpilan) |
| (9) Interference: Extreme. Strong. | - Pakikialam: Matindi. Malakas. |
| Moderate. Slight. | Keinaman. Bahagya. |
| Fast. International Jamming | Mabilis. Palyang panginternasyonal. |
| (10) Fading: Extreme. Moderate. | - Paglalaho (paghina): Matindi. Kainaman. |
| Slight. Fast. | Bahagya. Mabilis. |
| Slow. | Mahina. |
| (11) Receiver model (eg Eddystone) | - Modelo ng Tagatanggap (tulad ng Eddystone) |
| (12) Number of tubes (eg 10 or 6 etc) | - Bilang ng tubo (tulad ng 10 o 6 atbp) |
| (13) an exterior antenna with length of _____ meters. | - isang panlabas na antena na may habang _____ metro. |

(13) alternative version.
 a directional loop antenna of
 _____ meters square aimed at
 Manila

- isang panturong tiklop na antenang
 _____ metro parisukat paayon sa
 Maynila

Philipino Phrases

Pariralang Pilipino

Station signed off with government
 licence number

- Himpilan ay naghudyat pangwakas na may
 pampamahalaang bilang ng lisensiya

Station signed on with band music

- Himpilan ay naghudyat panimula na may
 tugtuging banda

Male/female announcer

- Lalaking/babaing tagapagbalita

Band music programme

- Tugtugin pambandang palatuntunan

Station Identification given by
 male/female announcer

- Pagkakakilanlan sa himpilan na ibinigay
 ng lalaking/babaing tagapagbalita

Trade Union Programme

- Palatuntunan ng Unyong Pangkalakalan

Advertisement

- Lathalain

Classical/popular/instrumental/
 piano/trumpet music

- Tugtuging klasikal/popolar(kilala)/
 pangkagamitan/piyano/trumpeta

Political programme

- Palatuntunang pampolitika

News broadcast

- Balitang panghimpapawid

Weather report

- Ulat sa panahon

Time signal/Gong

- Hudyat pang-oras/Kampana

Jingle

- Kililing

Commentary

- Kuro-kuro

Dramatic programme

- Palatuntunang pandrama

National Anthem

- Pambansang Awit

Time given by male/female announcer

- Oras na ibinigay ng lalaking/babaing
 tagapagbalita

Programme Review

- Balik-palatuntunan

Comedy programme

- Pangkatatawanang palatuntunan

Religious programme

- Palatuntunang pangrelihiyon(sa panan-
 amplataya)

Heterodyne whistle

- Sipol Hetrodyne

Station Manager

- Tagapamahala ng himpilan

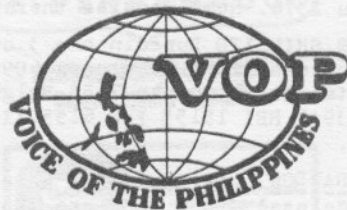
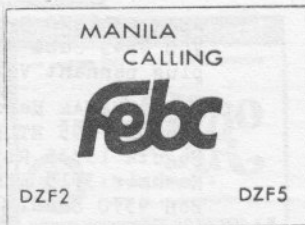
Station President

- Pangulo ng himpilan

Male/female announcer gave title
 of selection

- Lalaking/babaing tagapagbalita na
 ibinigay ang pamagat ng kantahin

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Shortwave Mailbag

with TONY MARR

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Some good veries reported this month, and one comment from Des Davey which I think is worthy of quoting - "Radio Canada International verified on request by return of the report form to me with Report Correct tick in a square I provided on the report form." Let's hope other broadcasters don't follow RCI's example with QSLing - I'm sure it's at least partly up to us all to send reports of good overall interest.... Now to have a look at the mail :

PAUL EDWARDS Wellington is first up with 7 out and replies from Congo 15190 Kabul 4775 and FEBA 15325.

ASH NALLAWALLA Dunedin has 4 out and QSLs from Vatican 9625 Peking 11650 Bucharest 11940 Praha 9605

JOHN MAINLAND Wellington has a lone one in from FEBA 11715. Maybe a few more next time.

JONATHAN AITCHISON Dunedin has sent 9 away, and has heard from Israel 5900 BBC 21610 21710 Pakistan 21730 VOA Liberia 6180 RNZ 9585 RN Talata 17810 RN Bonaire 9770. Doing nicely. Yes, it would count as a new one.

JIM BENZONI Hamilton has sent 7 off and has QSLs from Cuba 15230 RA Shepp 15270 Malaysia 15275. Ta.

BRIAN WITHERS Christchurch has a big list Veritas 15310 WINB 11775 Paris 9740 WYFR 9525 Brasil 11780 15245 Malaysia 15290 Moscow 9740 Bucharest 11840 RRI 4855 W. New Britain 2340 Chimbu 2376 Iraq 9745. Good going.

CECIL SYMMES Wellington has had QSLs from RA 9760 15270 15355 VOA Gvle 11700 WIRM 9525 Kuwait 11940 Athens 21400 VQO 9545 Colosal 4945 plus pennant. Yes, apologies from the ladder editor, Cecil. Somehow or other, your entry was misplaced.

RAY CRAWFORD Invercargill has been busy with 27 out, and answers from Iraq 9745 Sanaa 5805 Surabaya 3975 Chimbu 2376. Some goodies there.

GRAEME SHILLITO Dunedin has 3 out, and success with Luxembourg 6090 Pakistan 21590 Jordan 7155 Belgrade YJB4 3945 RBI 15155 FEN 6155 AIR 17780.

PAUL RAWDON Lower Hutt has a loner from Colosal 4945. Good one though.

PAUL ORMANDY Oamaru has a long list with VLQ9 NHK 17880 Abidjan 4940 Athens 7140 W. Britain 3240 VOFC 5 freqs BBC 13 freqs RSA 17780 RNZ 9585 Turk Met 6900 Kuwait 15345.

BRUCE OFFICER Christchurch in his first contribution to us tells of veries from FEBC 15390 Bucharest 11885 Lebanon 9675 Sofia 9700 Peking 11720 Sri Lanka 11835. Welcome.

BRUCE CAVANAGH Invercargill has sent 27 away and the postie has delivered the following QSLs Hanoi via Cuba 11725 Sweden 9665 plus pennant Moscow 11775 VOA Gvle 6180 KGEI 5980 Tashkent 6025 NHK 15430.

BRYAN CLARK Wellington has 4 out and 3 back from Helsinki 15105 Lagos 15120 Aden 11770.

MIKE SMITH Matamata has 10 out and answers from Sofia 9700 Bucharest 6155 Finland 6120 Warsaw 9675.

GRAEME BAMFORD Tauranga has a couple with VLM 4 2920 and P2K 4 980. Good, more next month, perhaps.

BARRY WILLIAMS Auckland has also got a pair with Bremen 6190 and Sanaa for country 203. Rapidly approaching the 250....

PAUL ARONSEN Invercargill has been extra busy with 32 out and replies from NHK 15420 3607 Veritas 15310 Malaysia 15275 Athens 7215. Poor postie next month.

ARTHUR CUSHEN Invercargill has a good lot Kavaia 11925 7270 Veritas 15310 15325 Oman 11890 Cuba 11870 11815 Paris 6045 9525 Athens 7140 Malawi 7130 Pakistan 4020 Bucharest 17790 Dixon 21485 Iran 9680. Very nice.

ALEX WELLNER Sydney has 4 away and QSLs from VQO 9545 Cuba 9525 Athens 7215 Colosal 4945 plus pennant Veritas 9570.

JOHN DURHAM Meremere has 5 out and a lot back Penang 7295 ETLF 7165 ELWA 11865 Israel 7461 Bogota 15335 Riyadh 11855 Malaysia 6175 Azad Kashmir 3015 Athens 5960 Singapore 11940 TWR Bon 9570 Seoul 11850. A good collection, John.

C O N V E N T I O N ' 7 7 - C H R I S T C H U R C H

W A T C H T H E " T I M E S " F O R N E W S .

DENE LYNNEBERG wellington has 5 out and a lot more back Paris 5955 11705 11930 11965 15210 15300 15425 RSA 15125 9585 FEBA 15325 Singapore 9635 11940 France Inter 6205 Filipinas 9580 Sweden 9605 Uganda 9515 HJZP 15335 Lagos 15120 Rare 11760 with 250w Israel 7462.5 17688.5 Brazzaville 15190. Good going.

LINDSAY ROBINSON Invercargill also has 5 out and QSLs from Athens 21460 Tunis 11970 Palembang 4855 ZK6 3265 500w.

DES DAVEY Te Kuiti has reported 2 and has heard from NHK 17880 RCI 9655 RBI 15390 ORF 5980. Thanks your info re Canada, Des.

DAVID FELDON Rotorua has 4 back from Praha 7345 RNZ 9540 Malaysia 15275 NHK 17825. Ta.

BILL VOGEL Adelaide has 5 out and one back from NHK 1.875. They all count though, Bill.

BRENT ALLRED Motueka has them from RNZ 9520 Brasília 11780 15245 Cairo 9745 Moscow 9780 11690 Peking 9460 11600 HCJB 11915 9745 Hanoi 11815 NHK 15310 VNG qualifies as a utility I'm afraid.

LAURIE BOYER is last for this month with two back from Tirana 11845 and Iraq 9745.

BEST OF THE MONTH

OVER 9 MHZ

RSA 17780khz 250kw
Paul Ormandy

UNDER 9 MHZ

Ivory Coast 4940khz 25kw
Paul Ormandy

ON BOTH SHORTWAVE AND MEDIUM WAVE, THE LATIN AMERICAN DX SEASON IS UNDERWAY. To get you in the mood.....



Radio Colosal



HRVC
1200 KHz Onda Larga - 4.87 MHz Onda Curta

SUPER RADIO

CANAL MANABITA



4815 Q.CORTA

PORTOVIEJO MANABI

LA VOZ DE LA VICTOR

RADIO INTERNACIONAL

625 - 9615 Kcs. Banda 31 M.
SAN JOSE, COSTA RICA



RADIO CLUBE DE PERNAMBUCO

comunicação total som universal



aconteceu agora... agora mesmo você saberá!

de hora em hora a Rádio Globo apresenta

O GLOBO NO AR

a notícia como ela é
Mais um serviço público da

BANCO PORTUGUES DO BRASIL S.A.

- onde todos se dão bem há mais serviço!





Well it's time once again to look into the mailbag and see what surprises we have. It's some time since convention now so I hope all those reports are out and look forward to seeing the verifications in this column soon. So with that lets dip into our mailbag and see what we have.

ADMIRALTY ISLANDS Radio Manus 3905 kHz. QSL back in 10 days with letter. (L. Robinson. This may well be a first Lyndsey, at least for New Zealand anyway. Please give more details next time on veries.)

ALGERIA Radiodiff. Television Algerienne. 7245 kHz. White one sided card with blue writing in Arabic and French. Crest of RTA and includes date, frequency and printed air report form similar to NHK's. (B. Cavanagh)

and time. Received after 4 months for airmail report in EE and 1 IRC. Also sent program schedule

BRAZIL Radio Brasil Central 11815 kHz. Personal letter from station employee Manlida Monteiro and verification letter from the Gerente Geral (signature undecipherable). Station operated by CERNE (Consortio de Empresas de Radiodifusão e Notícias de Estado) Rua 201 (Esquina c/11.a Avenida, Vila Nova, Goiânia. Also large colourful tourist brochure on State of Goiás. All received by airmail in 1 month for Portuguese report. (N. Robbins)



BRUNEI Radio Brunei 7215 kHz. White card with map of Brunei and drawing of Sultan Omar Mosque in Brunei Town. Verie signer illegible. Received in 1 month for report with 1 IRC. (G. Bulter)

CENTRAL AFRICAN REPUBLIC Bangui 5038 kHz. French form letter by airmail in 3½ months with date and time of reception only. English/French rpt sent with 2 IRC's. Station states QSL cards are still being printed at present. (B. Clark)



COLOMBIA Radiodifusora Nacional de Colombia, Bogota. 15335 kHz. QSL Card showing view of Antioquia, Colombia.

Reverse side shows all frequencies in use by Radio. Nac. and gives confirmation text and date only. Verie signer Alberto Upegui Acevedo Director Radio Nacional. Received in 4 months for long Spanish rpt. with 2 IRC's and postcard. (D. Lynneberg)



CONGO (People's Republic) Radiodifusion Television Congolaise, Voix de la Revolution Congolaise. 15190 kHz. French verie form giving full details from Service Technique de la RTC, Section Exploitation. Received in seven weeks for English report with 1 IRC. (D. Lynneberg)

COOK ISLANDS CIBNC, Radio Cook Islands, Rarotonga. 11760 kHz 250 watts. Postcard showing Cook Islander blowing the triton shell. Full details given on reverse side together with personal message from Nooroa E. Tangaroa. Received by air in 2 months for EE report and 1 IRC and detailed graph monitoring reports for antenna tests. (D. Lynneberg)

LUXEMBOURG Radio Luxembourg 6090 kHz. Black and white card with arms of Luxembourg in Red, Blue and Gold. No verie signer. Received by air in 2½ months. (A. Wellner. Thanks Alex, hope you've got over your tour of New Zealand OK.)

NIGERIA Voice of Nigeria 15120 kHz. Card in 2½ months by air with IRC returned. Full details on reverse of postcard showing view of Eko Bridge, Lagos. Also sent multi-lingual schedule. Gives new address: V. of Nigeria, NBC, PMB 12504, Lagos, Nigeria. (B. Clark and D. Lynneberg. What, last veries before the attempted coup!)

SULTANATE OF OMAN Radio Oman 11890 kHz. English letter from Ministry of Information and Culture (verie signer illegible) giving full details and thanking for taped report sent and enclosing two picture postcards of Oman. Received in 1 month by air for EE report and tape and 2 IRC's and post card. (D. Lynneberg)

SEYCHELLES FEBA 15325 kHz. Light blue card with outline of Africa & Asia in brown. Ring around Seychelles with arrows pointing in all directions. Full details given on front of card. Received in 3½ weeks for EE report with no IRC's. (B. Vogel)



Well unfortunately space has run out and many goodies well have to be held over till next time including Uganda 9515 and Turkey 6900 kHz. Thanks this month go to: Bill Vogel from Adelaide and from NZ, Lyndsey Robinson, Bruce Cavanagh, Nigel Robbins, Gary Bulter Bryan Clark, Dene Lynneberg and also from Aussie Alex Wellner. 73's Section Ed. Dene Lynneberg.

SHORTWAVE BANDWATCH

Coordinated by JOHN MAINLAND.

Daytime listening conditions are showing a slight improvement and Brazilian stations are making appearances in the evening listening period. Test transmissions from Radio Korea are noted by Brian Withers, TWR Swaziland is reported on a new frequency by Bryan Clark, and your editor is hearing Polish Radio's Home Service on 6035kHz. A few Africans continue to be heard on lower frequencies.



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(+ indicates hrd overseas)

ALL TIMES ARE GMT (NZT minus 12 hours) FREQUENCIES IN KILOHERTZ

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITS
2450	1133	INDONESIA	RRI Jakarta	EE mx, Indonesian anncts, fair.	PE
3165	1145	INDONESIA	RDDK Kota Madye Surabaya	very poor 28/2.	PE
3250	1147	INDONESIA	RRI Banjarmasin	poor with Indonesian talks.Het.	PE
3275	1813	SWAZILAND	TWR Manzini	fair with EE rlg prgms 27/2 till f/out 1840. Full idents 1815,1830. No other Africans evident.	BC
3330	1748	PAKISTAN	Radio Pakistan	vg with EE requests Sunday //3395 f.BC	PO
3350	0644	GHANA	GBC Accra	fair with vernacs & music.	BC
3365	1550	INDIA	AIR Delhi	in EE, fair with heterodyne.	PE
3425	1150	NEPAL	Katmandhu	fairly good reception. EE at 1435.	BjW
3607	1056	JAPAN	NHK Hiroshima	with JJ Home Service, fair.	PA
3905+	1105	PAPUA NEW GUINEA/ADMIRALTY ISLANDS	Radio Manus	with island music, pidgin anncts, poor.	BV
3935	1210	INDONESIA	1210 RRI Semarang	poor in Indonesian. Other 75mb at this time: RRI Denpasar 3945, RRI Pontianak 3965 and RRI Surabaya, all at poor level.(Denpasar fair 1330 PA)	PE
3955	1829	POLAND	Warsaw	int/sig then GG prgm till f/out 1930 poor-fair.	BC
3970	1900	UNIDENTIFIED AA	chanting	under BBC European Svce poor-fair.	BC
3975	0816	NEW HEBRIDES	Radio Canabu?	Espiritu Santo in Pidgin with western style pops.	PO
3985	0700	SWITZERLAND	SBC Berne	EE till 0730.PA.1759 Mx, nx at 1815.	BCa
4780	1828	AFFARS & ISSAS	Djibouti	AA cont.(? Ed) mx. fair.	PO
4783+	1930	MALI(presumed)	Bamako	with African mx, FF anncts poor 18-19/2.	BC
4830+	2001	GABON	Franceville,nx,mx	very poor in FF on new freq.	BV /BV
4843	0610	CONGO RTC	Pointe Noire	weak to fair in native langs.	RC
4850	0615	DOMINICAN REP.	Radio Clarin	again being hrd with pleasant mx prgms, frequent ids & advts in SS.BC.0656 vg in SS.Many ids.PO	PO
4853	1700	YEMEN ARAB REP.	Sanaa nx	in AA.AC 1700 fair with march mx,id.PE 1730 AA fairly good.BjW. 1900 strong 14/2.JD 1930 good AA.	RC
4855	1245	INDONESIA	RRI Palembang	fair in Indonesian.BjW.PE. Others at around this time 4698 RKIP Surabaya poor; 4764 RRI Medan fair; 4775 and 4805 RRI Jakarta; 4790 RRI Fak Fak poor.	PE
4890	0840	PAPUA NEW GUINEA	Port Moresby	poor with EE talk.	BA CS
4904+	1800	CHAD	Ndjamana	fair in FF.BjW.1801 good till QRN 1813.PO.1842.BV+	BV+
4915	0600	GHANA	Accra H.S.	EE nx,then vernaculars.EE again 0700.Often.	PE
4932+	1058	INDONESIA	RRI Surakarta	fair in Indonesian with EE pops.	BV
4940	0628	IVORY COAST	Abidjan	fair in FF once with no Colosal hrd.	PE
4945	0605	COLOMBIA	Radio Colosal	with Latin mx,poor.CS.0930 fair in SS with mx, ident.GB. 1050 poor with mx and SS anncts 31/1.	BV
4965	0630	COLOMBIA	Radio Santa Fe,Bogota	good with SS mx prgm.	Ltr
4985+	0930	INDONESIA	RRI Ujung Padang	poor with Indonesian music.	AW
5010	1416	SINGAPORE	Radio Singapore	good with EE commentary.	BCa
5020	0755	SOLOMON ISLANDS	Honiara	fair in EE with nx.CS.0837 BA.1040.	BV+
5030	0805	VENEZUELA	Radio Continente,Caracas	fair with SS mx.Ltr.0915 SS ident.GB. 1045 Nx & anncts with gongs.Fair in SS 31/1.	BV+
5039	1809	SUDAN	Omdurman	good with mx prgm & AA anncts.	JD
5047	0621	TOGO	Lome	sometimes fair-good in FF.PE. 0638 fair FF mx.	PO
5886	1238	INDONESIA	RRI Pakanbaru	good with ident. Heterodyne.	PE

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITIALS
5900	0500	ISRAEL	Jerusalem	EE news excellent. Also on 5950, 7412, 17685.	RC
5955	0800	HOLLAND	RN Lopik	poor in Dutch.	JA
5960	0650	GREECE	Voice of Greece, Athens	fair. EE nx 0715.	RC
5980	0250	SOUTH AFRICA	RSA s/on	in EE. Int/sig, ident & nx.	PO
5985+	0600	PORTUGAL	RFE	with Hungarian nx, fair. //7115 good.	AW
6015	0904	PARAGUAY	Asuncion	poor with music programmes.	JD
6015+	0645	GREECE	VOA Rhodes	with FF programme, EE songs.	AW
6025	0939	PARAGUAY	Asuncion	fair with mx prgm & many Radio Nacional ids.	JD
6030	0515	USA	AFRTS Bethany	with nx, cmt, fair. CS. 0620 EE strong.	JB
6035	0440	POLAND	Warsaw	in Polish to s/off 0505, fair. New freq //9570.	JM
6060	0755	ARGENTINA	Radio Nacional	Buenos Aires fair with SS mx. Ltr. 0900 good signals but mixed with USSR.	RC
6085	0601	SAUDI ARABIA	Riyadh	fair with AA news.	ECa
6120	0800	ARGENTINA	Buenos Aires	Radio Mundo good with mx prgms.	JD
6135	0815	BRAZIL	Radio Gaucha, Porto Alegre	fair in Portuguese with mx. Ltr	Ltr
6155	0822	BRAZIL	Radio Cultural da Bahia, Salvador	PP ids, talk, mx fair. JM	JM
7075+	1122	INDONESIA	RRI Jakarta	new freq or drift from 7065? Poor, mx.	BV
7105	0817	MONACO	TWR Monte Carlo	EE rlg prgm good. BA*0850 gospel nx.	RS
7110	1252	INDONESIA	RRI Jogjakarta	good with music prgm.	PE
7145	0633	POLAND	Warsaw	in EE Service. Nx, Maritime Magazine. Fair-good.	BA
7195	0500	SAUDI ARABIA	Riyadh	very good in Arabic.	JA
7195	0639	ALGERIA	RTVA Algiers	good in Kayble.	FE
7220	0405	HUNGARY	Radio Budapest	with DX programme. Poor, noisy.	Ltr
7225	1015	PHILIPPINES	FEBC Manila	good signals.	PA
7235	1622	AUSTRALIA	RA Shepparton	with 'International Report'.	AC
7240	1200	PHILIPPINES	VOA Poro/Tinang	s/on in Asian lang. Nx, fair.	ECa
7245	0640	ALGERIA	RTVA Algiers	fair in FF with EE pop music.	FE
7250	0900	SOUTH KOREA	KBS Seoul	good with EE nx //9600. RC 9600 fair 1105.	PA
7275	0555	TUNISIA	Tunis	fair in AA. PA. 0800 AA prgms, new frequency.	AC
7275	1915	ALBANIA	Tirana	in EE. (Is in Czech at this time Rod. Is time GMT?)	AC
7395	0500	ISRAEL	Jerusalem	strong with EE Nx. (Please use GMT)	RS /RS
7462	0500	ISRAEL	Home Service	strong at s/on. PA. 0600 Commercial prgm, nx.	AC
9022	0400	IRAN	Radio Teheran	excellent in Farsi.	RC
9410	0500	GREAT BRITAIN	BBC World Service	with News in EE.	CS
9425	0500	ISRAEL	IBA Jerusalem	good with HS in Hebrew. Classical mx, ads. Nx 0500 but blocked by jammer at this time. DL. 0500 fair.	AW+
9475	0221	EGYPT	Cairo	good with EE to Nth America. BA. 0301 EE talks, poor/	AW+
9525	0730	FRANCE	Radio France International	strong FF. S/off 0800.	JB. BCa
9560	1418	AUSTRALIA	RA Carnarvon	in CC until 1430, then ident.	PO
9570	1255	QATAR	Qatar Broadcasting Service	fair only due het & sidesplash. AA nx prgm at 1300. DL. 0432 News but QRM Havana. Fair.	FR
9590	1720	MALTA	Deutsche Welle	relay, fairly good in EE.	BJW
9595	0850	BRAZIL	Radio Cultura da Bahia	poor in PP. Mx prgm.	Ltr
9635	1955	PORTUGAL	Radio Liberdade	via RTE Sines good with PP to 2100.	JM
9645	0820	BRAZIL	Radio Bandiarantes, Sao Paulo	fair-good in PP.	Ltr
96483	0055	CHILE	CE965 Radio Diego de Almagro, Santiago	fair in SS but better later. Excited SS prgm (sports?) till 0135 then EE/SS pop mx till s/off 0257 after full id, including 1460 BCB & CE965. Slight het from Brazil 9645kHz. Ex Yungay.	DL
9670	1545	PORTUGAL	Radio Messias	via Sines. SS prgm Saturdays.	AC
9690	2054	USA	WYFR Scituate	with EE rlg. 2100 "Hora de la Reforma" in SS.	PO
9695	0230	SWEDEN	Stockholm	with EE nx. RS. (Please use official abbreviations)	PO
9700	1930	BULGARIA	Sofia	fair to good with EE news.	Ltr
9730	2000	BULGARIA	Sofia	good in AA. RC. 2145 exc with AA nx, talks.	BCa
9740	1700	FRANCE	Paris	strong in EE. Also on 11705, 11930, 15425.	BJW
9750	1400	SWEDEN	Radio Sweden, Hoerby	350kw EE to Far East ex 9765. Good signal via short path over Asia.	DL
9780	0419	YEMEN ARAB REPUBLIC	Sanaa	good in AA. Many ids. FE. 0359 good. PR 1852 good in AA. JD. 1900 good in AA. RC. 1820 Mx, talk in AA.	PR BV+
10110	0600	CLANDESTINE (Roumania)	Radio Espana Independiente	vg in SS, //12140 good.	JA
11700	0810	USSR	Radio Moscow	vg in EE with resumé of Breshnev speech.	CS

<u>FREQ</u>	<u>TIME</u>	<u>COUNTRY</u>	<u>STATION</u>	<u>PROGRAMME & RECEPTION DETAILS</u>	<u>INITS</u>
11705	1700	FRANCE	Radio France	excellent in EE to Africa.	RC
11715	1730	VATICAN STATE	Vatican Radio	opens in Arabic.	AC
11715	1719	SEYCHELLES	FEBA	poor in Farsi.PE. 1730 mixed with Vatican. 1800 identification. Good signal.	AC RC
11725	0845	PORTUGAL	Radio Free Europe	with mx prgm. EE id 0855.QRM China.	CS
11755	0745	FINLAND	Helsinki	in EE to Western Europe.Fair //6120 poor.	JM
11760	0420	CUBA	Radio Havana	EE nx,cmt - fair.CS. 0545 Cuban mx prgm.	AW+
11770	1615	YEMEN	Aden	fair with id.Poor by 1730.PE.1746 in AA.AC.1830 fair	RC
11775	1946	USA	WINB Red Lion	fair in EE.PA.2201 EE rlg vg.PO.2730. Bjw	RC
11785	0615	IRAQ	Baghdad	good in AA here.	RC
11790	2215	USA	AFRTS (Greenville listed)	with live sports,vg & exciting.	PO
11795	1800	USA	AFRTS Delano	EE nx,then basketball cmtry, fair 28/2.	JM
11800	0528	ETHIOPIA	ETLF s/on EE, nx.Poor.BCa.EE nx,gospel prgms,clear.	RS	
11810+	0805	ALGERIA	Radio Algiers	fair in AA with music and talks.	BV
11825	0310	TAIWAN	BCC Taipei	fair in EE with clear signal.	RS
11825	0425	TAHITI	Radio Tahiti, Papeete	// 15170.PA.(Few extra details Paul?)	
11850	0300	SOUTH KOREA	Radio Korea, Seoul	testing in EE and FF.	Bjw
11855	0030	PHILIPPINES	FEBC Manila	with news & editorial, fair.	DF
11880+	0600	TURKEY	Ankara	with Turkish mx and news for Cyprus.	AW
11890	0325	OMAN	Muscat	fair in AA at s/on.Bjw. 0400 good signals in AA.	RC
11895	0800	NORWAY	Radio Norway	poor in EE. Noisy reception.	LTR
11940	2330	SINGAPORE	Radio Singapore	fair some days.	Bjw
11940	0645	ROUMANIA	Bucharest	poor-fair in EE to Pacific //15250,15380, 17790. S/off 0715.JB. 15250 at 0700 in EE with news talk.	AW
11955	1345	ETHIOPIA	ETLF EE	annct for North India,then Telugu prgm,poor.	JM
11970	0734	TUNISIA	Tunis	fair in AA. PA. RTP with AA talks, fair.	Bca
15105	0000	JAPAN	Radio Japan	poor with nx and commentary in EE.	DF
15120	0620	NIGERIA	Voice of Nigeria	in EE. Fair, mixed.	PO
15125	0957	SOUTH AFRICA	Radio RSA	s/on Sunday fair.EE nx. F/out 1016.	Bca
15170	1900	TAHITI	Papeete	with news in EE, poor.	DF
15195	2200	JAPAN	NHK Tokyo	with ident & EE News.	GB
15195	1138	AFGHANISTAN	Kabul	with EE news and weather, fair.BCa.1149 fair.PA	PA
15230	0405	AUSTRALIA	VLR15 ABC Melbourne	fair-poor with the 'Gondoliers'.	CS
15290	0734	MALAYSIA	Kuala Lumpur	vg in EE 'Malaysia in Progress'.BA.0625.Bjw	Bjw
15310	0503	INDIA	AIR Delhi	s/off after Test Cricket commentary.	RC
15315	2230	PORTUGAL	Lisbon	vg in PP.Mainly mx prgm. //15340 also vg.	PO
15345	0530	KUWAIT	Radio Kuwait	fair in EE. RC. 0700 good in EE.	Bjw
15420	0303	JAPAN	NHK Tokyo	in EE.PA. 15430 Tokyo vg with GG nx 0700.	Bca
17735	0535	IRAN	Teheran	with mx prgm in Farsi.Fair to t/out 0635. // to 9022 and 15084kHz.	JM
17810	0757	MALAGASY REP.	Radio Nederland Relay	poor in Dutch.JA 0806 fair.	JA
17810	0615	PHILIPPINES	FEBC	with religious prgm,news. Poor.	DF /Bca
17850	0730	AUSTRIA	Vienna	in GG with English pop mx. Good.	Bca
17850	1030	SRI LANKA	SLBC Colombo	good at s/on. Also on 15120 fair,11835 poor.BW. 11835 at 1045 strong in EE. S/off 1130.	Bjw
17865	1030	HUNGARY	Radio Budapest	suspected Jazbereny 250kw tx, Good sigs but fair overall in EE to Aust/NZ with nx,pop mx requests. Mixed France int/sig. S/off 1055 then Paris in clear in FF.	DL
21485	2106	USA	VOA Bethany	fair.	PA
21610	2230	USA	VOA Dixon (100kw to Oceania.Ed)	with Breakfast Show.	GB
21650	0905	WEST GERMANY	DW Cologne	nx,cmt in Pushto.Fair-good.S/off 0920	Bca

CAUTION: The Winter frequency changes on 7 March may have resulted in amendment to some of the reported information above.

CONTRIBUTORS. Thanks this month to...Ltr Leonard Rose (welcome!) CS Cecil
 RC Ray Crawford PR Paul Rawdon Bca Bruce Cavanagh RS Rod Sainty Symmes
 PA Paul Aronsen JD John Durham DL Dene Lynneberg JA Jonathan Aitchison
 JB Jim Benzoni DF David Feldon JM John Mainland AW Alex Wellner -NSW
 PO Paul Ormandy BA Brent Allred GB Graeme Bamford BW Barry Williams
 Bjw Brian Withers BC Bryan Clark AC Arthur Cushen BV Bill Vogel-Sth Aust.
 Thanks to all our regular & loyal supporters.

STATION OF THE MONTH 18

The relatively new shortwave centre of Radio Nacional Espana is situated at Noblejas, just 70km from Madrid, the Spanish capital.

Here, six 350kw SW transmitters, amongst the most powerful and modern in Europe, are cooled by the vapodyne system. The aerials consist of 3 groups of dipole curtain antennae and 23 guiding antennae, 9 of which are designed to function at 700kw. 25 pylons are used and these range in height from 40 to 112 metres. The transmitter building has been built with allowance for another 2 transmitters in the future.

Recently RNE introduced a Spanish broadcast directed to Australia and the Philippines; this is aired 0900-1300 GMT on 11730 and 15370kHz. English from Madrid is broadcast daily except Sunday at 0100-0345 GMT on 11880kHz.

Reports should be addressed to Radio Nacional de Espana, Casa de la Radio, Prado del Rey, Madrid 24, Spain. **JM**



RADIOTELEVISION ESPAÑOLA
RNE



TRANS WORLD RADIO
P.O. BOX 64 — MANZINI
SWAZILAND — AFRICA

the above schedule is subject to change without notice. By the end of 1976, TWR hopes to be broadcasting in 26 languages. Plans are underway for a DX programme in the near future, in which South African DXers will participate.

PIRATE RADIO RETURNING TO THE PACIFIC?

According to a press report, Japanese anti-pollution & consumer groups, and groups opposing recent postage increases, have formed the Japan Pirate Radio Broadcasting Alliance, to start experimental broadcasts in April from a 5 ton boat in international waters off Japan. A

STANDARD FREQUENCY & TIME STATION via Brent Allred

W W V H

Station WWVH began serving the Pacific Basin in November 1948 from Maui in Hawaii. In July 1971 the station was transferred to Kauai, with modern facilities costing \$1.2 million. Operating continuously, WWVH is served by 2 engineers, 5 electronic technicians, a secretary and a maintenance person.

3 atomic frequency standards, accurate to 1 millionth of a second per month, provide optimum time-keeping ability. At WWVH only one clock is 'on the air' at one time. The other two permit clock inter-comparison and emergency or standby services.

A 'time code generator' allows recorded voices and special announcements to be programmed automatically into the broadcast format. This info provides modulation through a synthesiser for the 5 standard broadcast frequencies (on SW 2500, 5000, 10000 & 15000kHz) which are accurate to a few parts of 1 million million. At WWVH the voice of Mrs Jane Barbe allows distinction from WWV's Mr Don Elliot. The RF signals are amplified thru linear amplifiers and then fed to the antenna systems, which are modified 1/2 wave dipole phased arrays.

Latest schedule
courtesy
Colin Miller

TWR are now using four 30kw transmitters and broadcasting in 10 languages. Further languages & programmes are added when available, so

0445-0700 on 4790,9590 in EE and Afrikaans to South & East Africa.

0715-0900 on 6070,11760 in English to South and East Africa.

1530-1600 on 11715 Swahili to East Africa.

1615-1645 on 11715 in Mandarin CC to East Africa.

1630-1700 on 4790,9590 in German to South West and East Africa.

1700-1745 on 4790,9590 in Afrikaans to South Africa.

1630-1800 on 6070 in Central African langs to Rhodesia and Zambia

1700-1745 on 4760 in Zulu & other South African languages.

1800-2100 on 3275,7255 in English to South Africa.

1815-1900 on 4760 in PP & Mozambique languages.

1930-1945 on 9590 in PP to Angola.

Per this month's "Sign-off", this is now the only SW broadcaster from the Kingdom of Swaziland. Tx Colin!

A.Endo SC DX
100w ham transmitter will be used.

ARTHUR CUSHEN'S SHORTWAVE REVIEW

19

Our reception of the New Hebrides breakaway station which highlighted last months Review was first observed on 20 January. The station has now moved to 7120kHz from 7125 and continues to be heard up to 1000 GMT.

From 7 March there are the usual frequency changes taking place, while information has come to hand from the BBC regarding the new site for the Far Eastern Relay Station. ALL TIMES ARE GMT (Add 12 hours for NZT) FREQUENCIES IN KHZ.

ANTARCTICA AFAN McMurdo was scheduled to move from 6012 to 7215kHz at the beginning of the month. It operates 24 hours a day with 1kw.

MALAWI Blantyre verifies with a letter and gives the present schedule as 3380 at 0257-0520 and 1750-2215 GMT; 5995 at 0500-2110 and 7130kHz 0600-1715. Power is 100kw except for 5995 which is 20kw.

NEW ZEALAND. Arthur Cushen's DX World programme has been retimed and is now heard on the first Wednesday of the month at 0610 and 0910, and is repeated on the following Saturday at 2330 GMT.

The following amendments have been made to Radio New Zealand's schedule which appeared on page 20 of last month's Times.

1700-1830 on 6105kHz;	Repeating details of the other new frequencies
1840-2000 on 11780kHz;	now in use - 15380kHz 2230-0050 to the Pacific &
-1700-2000 on 9655kHz.	0100-0545 to Australia. 11845kHz 0100-0545 to the Pacific. 11960kHz 2015-0050 for Pacific/Australia

Corrections to WRTVH 1976 concerning New Zealand:

1410 2YM Palmerston North 2kw RNZ National Repeater } not listed
 1430 4XD Dunedin 250w private non-commercial station }
 890 2XW Wellington has moved from 1080. 1110 1XX Repeater now on 1240kHz.

OMAN The Sultanate of Oman, Ministry of Information and Culture, P.O.Box 600, Muscat, verifies with a letter and gives the following schedule for it's 50kw SW transmitter: 0200-0700 in Arabic on 11890; 0900-1100 in English, 1100-1315 in Arabic on 11890; 1400-2000 in Arabic on 6174kHz.

PHILIPPINES Radio Veritas has the new mailing address of P.O.Box 939, Manila. Tests are still being broadcast 2230-0200 on 15310 and 1130-1500 on 11875kHz. English is broadcast 0000-0200 and 1400-1500.

PORTUGAL The Voice of Hope advises that the English service on Sunday 0700 to 0715 over Sines 9670kHz, will also be broadcast via Malta on 9605 or 9690kHz. The Sines transmitter has been heard with the programme of Radio Messias on Saturday 1545-1630, including Russian at 1600 and German at 1615. Voice of Hope programmes follow at 1630. The address of Radio Messias is P.O.Box 1204, CH6002 Luzern, Switzerland.

SEYCHELLES FEBE 11715 is heard in Farsi till 1730 when the signal is mixed with the Vatican opening in Arabic.

SINGAPORE According to the BBC Handbook 1976..."following the offer of a site by the Government of Singapore, work is now in hand for the removal of equipment from the Far Eastern Relay Station in Malaysia and it's installation at the new site in Singapore". The present site at Tebrau is just across from Singapore so that the move will not be a major one, and this announcement finally ends speculation that the BBC would broadcast from Brunei, Christmas Is. and other suggested locations.

YEMEN Radio Sanaa has been heard on 4853kHz with Arabic news at 1700. This frequency replaces 5805kHz.

On a recent visit to Colombia, National Radio Club member Cesar Objio found the answer to a question he had often asked - what was the meaning of TODELAR the major Colombian broadcasting network. The other leading network CARACOL means Cadena Radial Colombiana. In fact TODELAR was created by the network owner from his own name - B. Tobon de la Roche!
 NRC DX News

..sign off..

BHUTAN Radio NYAB, 300 watts 7040 kHz is sked Sundays: 0730-0820 in Dzongkha, 0820-0840 in Nepali, 0840-0930 in English. DSWCI/WWDXC

ECUADOR Radiodifusora Municipal, Quito will soon operate on SW. BEC MS

AUSTRALIA Radio Australia's West Australian relay base at Carnarvon features in the 7 March-2 May sked as follows: to Sth/Sth East Asia - 6035kHz 1430-1730 in EE (250kw); 7215kHz 1100-1500 in Indonesian (100) and English 1500-1730 (also 100kw) 9560kHz 2230-0030 Indonesian (100kw) 9560kHz 1030 in CC, 1300-1430 in Cantonese, both with (250kw) 9700kHz 2130-2330 Vietnamese (250kw) 15190kHz in EE with 250kw 2330-0300 and 0600-1030.

15415kHz 0030-0800 in EE, 0800-1100 in Indonesian, both (100kw).
To East Asia/N.W.Pacific, all in EE. 6035kHz 2100-2130 hrs GMT (250kw) 7240kHz 2100-2230 with (100kw) 17860kHz 0300-0600 (250kw). RA

ANDORRA Further to last month's info, Radio Andorra tested in December with a 3.5kw transmitter on 5995kHz. The station says it may test more regularly in future. SCDXers 3/2

ANTIGUA The joint BEC/Deutsche Welle relay station will be operated by mutually owned Caribbean Relay Co., and now has an operational target date of July 1976. The station will be staffed by BEC and DW engineers and locally recruited technicians. BEC is responsible for design & construction & operation of the transmitting station while DW will be responsible for the receiving post. The 240 acre site has provision for four 250kw SW transmitters and 18 curtain array antennas. Existing programmes of the BEC & DW will be relayed on separate frequencies and the entire complex is expected to be completed by early 1977.

NASWA DX Hotline Feb 76

SAUDI ARABIA The Voice of Islam will be a major broadcaster to set up in Mecca as a counter-balance to the many Christian radio stations. SCDX

HONDURAS A new 'Radio Nacional' is due on air, using 890kHz & the 40m band according to La Voz de Honduras BEC MS via SCDX (Probably 49m - BC)

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 directed to Invercargill.

EDITORIAL OFFICE

P.O.Box 2956, Wellington.

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

Closing date for contributions:-

First Monday in 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.

MOZAMBIQUE The capital Lourenco Marques is now known as Maputo. (Ma Phuto per SCDXers). The A programme of Radio Mozambique is carried on 737, 3210, 4855, 6115, 7248, 9620 and 11820kHz. The B prgm - formerly Voz de Mocambique, is carried on 1223, 3338 and 4865kHz. Both programmes sign-on at 0355 with the Frelimo anthem. Beira has been noted on 6005kHz but announcing 4895kHz. C.Miller

NORWAY A new 250kw SW transmitter will come into operation in March/April but probably on an irregular basis. Radio Norway already uses a 100kw and two 120 kw transmitters. SCDX 24/2

SWAZILAND Swazi Music Radio has apparently just closed down, due to losses in advertising revenue. However parent company Swaziland Commercial Radio will continue religious broadcasts on 1376kHz 1900-2000 & hopes to expand these broadcasts. Richard Ginbey SCDX

LESOTHO Radio Lesotho has purchased 2 50kw transmitters, probably for SW. The first should be on air in April-May following installation at a new transmitter hall nearing completion. The second transmitter will arrive in August. The 10kw transmitter on 4800kHz has been inactive since August 1975. R.Ginbey SCDX

W I L L Y O U B E A T
C O N V E N T I O N ' 7 7 ?