



NEW ZEALAND DX TIMES

ISSN

0110-3636

Volume 32, No.5. Registered at P.O.H.Q. Wellington as a magazine January 1980.

WARC 1979

According to a press statement issued on 6 December 1979 following WARC 1979, the Table of Frequency Allocations between 9 and 4000 kHz has not undergone

major change. An attempt has been made to extend the bands used by the broadcasting and amateur services.

The limits of the bands used by the broadcasting service in I.T.U. Regions 1 and 3 have been changed from 525 and 1605 kHz to 526.5 and 1606.5 kHz respectively. In addition the power which can be used by broadcast stations in Region 2 in the band 525 - 535 kHz has been increased. Also in Region 2 the allocation for broadcasting has been extended to 1705 kHz and the use of the new band 1605 - 1705 kHz is to be regulated by a plan to be prepared by a Regional Administration Conference to be held not later than 1985.

The statement continues that in consequence of the desire of many countries to continue the use of high frequency fixed services, mainly for internal national communications, very few changes to the allocations to the fixed services have been made below 10000 kHz. However one significant re-allocation was made from the fixed service to broadcasting in the band 9775 - 9900 kHz. This is dependent on the satisfactory transfer of existing fixed services.

So far as the broadcasting services above 10000 kHz are concerned these are to be increased by a total of 725 kHz as shown in the Table on Page 2. The only reduction is in the 11 mbw which is reduced by 70 kHz, this going to radio astronomy. For comparative purposes the proposals of the Asian Broadcasting Union as published in the 'DX Times' of June 1979 are included in the Table. All frequencies are given in kHz.

Changes below 10000 kHz are to be made by 1 July 1994 while those above that frequency should be effective by 1 July 1989.

Our thanks to Mr. Derek Rose, Asst. Director-General, Mr. J.W. Carlisle, Asst. Principal, Radio Division, New Zealand Post Office and to Mr. A. Cushen, President, NZ Radio DX League, who supplied the information on which these notes are based.

NOTE: The composition of the ITU Regions is roughly as follows: Region 1 - Europe, USSR (including Asiatic USSR), Africa, Asia Minor (including Turkey, Iraq & Arabia). Region 2 - North, Central & South America. Region 3 - Asia, Australia, New Zealand and Oceania excepting Hawaii.

NEW ZEALAND RADIO DX LEAGUE

PRESIDENT: A.T. Cushen, M.B.E., Hon. Sec. C.G. Chester,
Administration Committee: P.O. Box 1313, INVERCARGILL,
(Membership, Competitions, Policy, Subs.) (9500.

Editorial: P.O. Box 2956, WELLINGTON 6000. Enquiries regarding content & distribution of the 'Times' only. CLOSING TIME: Noon on 1st Monday Monthly.

Stationery: P.O. Box 450, DAMARU 8901.

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ANNUAL SUBSCRIPTIONS: (All \$ NZ) - NZ \$10 ; Aust. & S. Pac. \$15 ; Asia & N. Amer. \$18 ; Eur., S. Amer., Africa \$20 ;

JOINING FEES: NZ \$3 ; Aust. & S. Pac. \$4 ; Other Areas \$5 .

DEADLINE: NOON - 4/2/1980 - LOGGINGS: VERTICES: B.O.M.: LADDERS

TABLE SHOWING CHANGES TO SW BANDS AGREED BY WARC 1979

(All in kHz)

Existing Band	ABU Proposal	ABU Proposed Expansion	WARC Decision	Actual Change
3900 - 4000	3900 - 4060	60	3900 - 4000	-
4750 - 4995	4750 - 4995	-	4750 - 4995	-
5005 - 5060	5005 - 5060	-	5005 - 5060	-
5950 - 6200	5740 - 6200	210	5950 - 6200	-
7100 - 7300	7100 - 7500	200	7100 - 7300	-
9500 - 9775	9400 - 9900	225	9500 - 9900	+ 125
11700 - 11975	11500 - 12000	225	11650 - 12050	+ 125
-	13600 - 14000	400	13600 - 13800	+ 200
15100 - 15450	15100 - 15700	250	15100 - 15600	+ 150
17700 - 17900	17500 - 18000	300	17550 - 17900	+ 150
21450 - 21750	21450 - 21850	100	21450 - 21850	+ 100
25600 - 26100	25600 - 26100	-	21670 - 26100	- 70

FROM THE BRANCHES

AUCKLAND - Most members turned up to a successful barbeque in early December at Barry Williams' residence to finish off

the 1979 Meetings. Next Meeting - Sunday 27 January 1980: 2 pm at NZART Club rooms, 3000 Great North Road, New Lynn.

CANTERBURY - Don't forget the January meeting at David Ricquish's home, 107 Bowhill Rd, North Brighton at 2 pm (Date? - Ed.) Tel. David - 888-312. Bring details of Christmas/New Year DX.

SOUTHLAND - The December meeting took the form of a Christmas Party at Ray Crawford's at which wives were also present. Business was brief. Next meeting on Tuesday, 22 January, with evening listening at Tiwai. Competition results: BOM - BC: P.Aronsen, WAOK Atlanta, Georgia 1380 kHz 5 kW. Merit: Ray Crawford, KOOK Billings, Montana 970 kHz 5 kW. Rest of World: R.Crawford, JOHR, Japan 1287 kHz 50 kW. SW over 9 - R.Crawford, Austria 21575. Under 9 - R.Dunstan, Holland 5955 kHz.

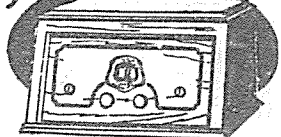
WAIKATO-BAY OF PLENTY - Few attended and there were 3 apologies. Convention for Easter was discussed. Duncan Watson, who goes to Auckland University in 1980, resigned. Report of display on 4 November. Next meeting 9 February to be confirmed. Contact Colin Campbell, 6 Clouston Crescent, Rotorua (81161) or David Feldon, 24 Kea Cres. Rotorua (79624).

WELLINGTON - No meeting was held in December. The next will be at John Mainland's, 30 Burrows Ave. Karori, at 8 pm on Fri. 25 January 1980.

79
STATIONS
on a 6-Valve
BREMER-TULLY

28 - American
21 - Australian
10 - Japanese
20 - New Zealand

Bremer-Tully say



"The
best set built
- for the least
it's wise to pay"

Arthur Williams, who has been interested in Vintage Radios for 10 years and owns over 50 ranging from a 2 valve regenerative set to the first transistor portables of 1956/57, is thinking of producing a Newsletter for fellow fans. This would cover matters such as circuits, history, restoration and collection of early sets. If interested write to Arthur at 26 Centre Street, George-Town, Invercargill.

NB: The 79 Stations were claimed by Mr. William Terrill of Waitara in a letter to the distributors dated 24/9/1928.

BROADCAST DX

POR EL PERSONAL NECESARIO 3

Once again reception conditions have not been all that favourable here in the South but from the mailbag it seems as if several members have had a very successful end to the year with some fine loggings having been made. The short-term stations were all heard in the south but it would appear they were difficult to pick up in the north.

2XX Picton operated on 1503 for several days and was relaying 2ZE Blenheim during the day with the Tonight Show and the Allnighter during the wee small hours.

The CJVB contest for the inauguration of its 50kW transmitter on 1470 was won by our old friend in Sydney, Chris Martin, who was listening at the Coolum Beach beverage site in Queensland. Congrats OM. Bryan Clark heard the station at poor strength due to heavy splash from Hauraki. Unfortunately here in the south we heard no sign of CJVB until the carrier was audible at 0910, too late for the contest and it was even later before any audio was discernable. Runner-up in the contest was ex Invercargill member Neville Clarkson now of Mt. Hagen in PNG. Third was a DXer in Sweden. Anyone hearing CJVB after the deadline should write to Theo Donnelly at CJVB as he is interested to know just how well the station is now received with the increased power.

Into the Mailbag;

JOHN ALLCHIN, Auckland, has logs of KBDF, KRGV, KBCQ, KAAP from home and from Te Araroa WLCY, KSJB, WLS, CIOK, KGNR, KMPS, KGAY, KNDI, KYOS, KJR, KABL, KUHL, WCBS, KDKA, CJVB, KROD, KZLA, KKH, WCKY, KPJZ, KMJJ, KSAL, KFH, KNKS, WIZM, WABC, WSUN, KYW, KDWN, KRLD, KEZY, WNBC, KJOY, KRLA, KIT, XEVIP, WHHY, KTOE, KSTN, WHIO, CKRM, KTSa, WDAF, CBJ, WJR, KTRN, CHUM. Veries have come in from KAPZ, CFSL, CHUM, KYW, KSAL, KNKS, KABL, WLS, KSJB, CKRM and KOPI for state 33. Some nice ones there.

HARRY WEATHERLEY, Melbourne, reported from Coolum Beach CJVB, CJCA, CKXL, CHQM, CFVR, CHUB, KGEM, KRAK, WOKB, KCRL, KSRM, KDLG, KYAK, KHAR, KABN, WABC, WJR, WSB, KGYN, KWKW, XEGM, KZLA, KVEN, KSTP, KFXD, KGBT, KHEI, KISA, KATZ, KARN, KGNR, KFRN, KNDI and KXRX. Also has had four phone calls from KXRX. You're becoming quite a radio 'personality', hi! Another nice list.

MARK NICHOLLS, Auckland, has reports away to KOPA, WBZ, WCBS, WABC, WMAQ, KBOI, KOMO, WWL, KAIM, CJVI, CKLG, KING, WBBM, KMVI, KNX KOMA, KOA, WHAM, KVOO and 2XR. Veries are to hand from WABC, WBZ, 2WG, 3XA and 4GY. The logs were all made on a National DR28 which Mark comments, "it performs as well as a Sony ICF6800".

BRYAN CLARK, Auckland, has reported KARN, CFPR, KOAM, CJOR, CJVB, KIVM, RPOI, KISA, KOPI, Desert Radio 1233, 1XL 1224, Waves 1404. Veries in from CJVB 'special', R. Nacional Colombia 570, Desert Radio 1233. Bryan reports he is heading for the hills in search of 2XR and 2XX. Good hunting.

2JJ Sydney on 1539 is reported to be simulcasting on FM later in the year. CM. 4EB in Brisbane started on 1485 on 1/12/79. E. MOORE. 6KA granted translator licences for Mt. Tom Price and Paraburdoon 765. 3EA reported testing its new 5kW transmitter. DX POST.

IAN CATTERMOLLE, Blenheim, has reports away to 1XL, 1XK, 2XX, 2XR and replies have come in from 2ZN, 2ZK and KRVN. Ta.

DAVID RIQUISH, Christchurch, has no reports this month but has QSL's in from KFMB, KAAP, CKGM and ZIZ 555 and Trinidad 610. Holiday DX is worth it when veries like that come. Hi!

BRIAN WEBB, Upper Hutt, has reports out to 1XL, 1XX, 1ZA, 1ZA, 1ZU, 2XR, 3KZ, 3ZM with veries in from 1XX, 3KZ, 1ZA, 3ZM. Brian uses an Eddystone S504 and small external aerial.

MARK MURRELL, has reports out to 2ZM, 2ZW, 1ZB, 2ZA and veries in from 1XW, 2SM, 2TM, 3YW, 3GL, 3AW, 4QG and 6WH. Ta.

PAWL RAWDON, Eastbourne, has a lone report out to VOA Marathon 1180.

TERRY SHEWAN, Blenheim, has loggings of 2ZM, 1XX, 3ZC, 2ZB, 2XW, 2XX and has veries from 1XI, 1XW and 1XX.

CHRIS MARTIN, Sydney, has reported from Coolum WABC, WJR, CFLD, KBZY, KBKW, KIOA, KGAA, KOHU, KAST, KLO, KBBQ, KSDO, WMCH, KFXD, CJCA, CJWW, CKXL, CHQT, CFVR, CKYL, KABN, KFRM, KYAK, KFAK, KDON, XESS, KWRM, KGBT, KUPL, KWKW, KXRX, KMPS, KGNR, KRVN, KHEI, Solomons 945 and CJVB, a contest winner. Veries in from KLUB and WCAU which states on the QSL that the transmitter is in New Jersey. Great trip, again, hi!

RAY CRAWFORD, Invercargill, has reported to 1XL, 2XX, 2XR, CBS Taiwan 750 and 1200, CBU, WOC, XEEP 1060, XEPA 1370. Veries from 2XA 2WG, JOHR, and KOOK 970.

MIKE SMITH, Auckland, has reported Sam 1170 and Radio Waves 1404.

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BEST OF THE MONTH

SENIOR. Eric McIntosh, CMBN , Cuba.
1180 kHz, 1kw, 163 points.
JUNIOR. Mark Nicholls, WABC , N.Y.
770 kHz, 50kw, 127 points.

TIWAI Mini Trail.
R.Crawford & S.Forsyth.

690 CBU 0830 poor-fair mixed KKUA.
off 0900.
1060 XEEP 1230 weak.
1180 WHAM 0835 fair.
1370 XEPA 1133 poor-fair thru SS.
1420 XEWU 1100 sign on fair-poor.
WOC 0930 Nxs over KCCN.

1370 CHPQ 0900 Nxs Relays CHUB 1570.
Keith Robinson.
1180 VOA Marathon Sign on in SS
1130, poor due to QRM from
3KZ & JOOR, plus Korean.
Paul Rawdon.

MAILBAG CONTINUED.

PETER JONES, Hamilton. Logs 1XK, Sam, 1XL,
2XR, 2WL, 3ZE, No QSLs.

ROBIN CHAMBERS, Opunake. reports out to
2XD, KYTE, 1XK, and 2XR, varies from 3ZB,
CFOR, 2XD, KZ00. Ta.

ARTHUR CUSHEN, Invercargill. has verified
5AD, 5PI, logs of 1XL, Taiwan 1550, 1XK,
2XR, Reloj 1110. thanks.

STUART FORSYTH, Christchurch. has them
out to 7ZL, CJVB, CBU, XEWE, XEEP, XEPA,
KTWO, KLAC, BED76, Taiwan 1550, YJB 1125.
2EA 1485. varies from 3ZA, 2KM, 4ZA, 2XW,
2HD, 4ZB, 4YA, 3KZ, 7ZL, CJVB, WLW, KKUA, 2EA.

HANK WILKINSON, California. varies JOIK,
HLKF, JOGK, reports out to Tahiti, HLCP,
RRI 1206, HLCX, HLCQ, Noumea 666, Malaysia
594 and 882. Ta. we know your problem
with USSR and N.Korea, have you tried
USSR on 1251, seems to be the only one.

LEIGH MORRIS, Palmerston North. has them
logged as 2XR, 1XK, 1XL, Sam, KSTP, Vila
1125, A3Z and CKFH, the same greetings
to you.

STEVEN GREENYER, Invercargill. has logs
only of Reloj 1110, Waves, 2XR, 2xx,.

KEITH ROBINSON, KAPUKA, has reported
7LA, CHPQ 1370, 1XL, 1XK, 1XX, varies
from 7NT, KKUA, KHEI, tests on 1224 &
1548, KTNQ, CFGO, 5AD, 5KA, 3CV, 2CA. Ta.

NEWS AND INFORMATION.

Hank Wilkinson, in Santa Rosa, Cal.
a DXer since the early thirties
sends us a list of his best varies
from each continent, they are.
Aust/NZ, 7HO 2kw.
Pacific. WKLE 250w.
S.A. CX26 1.5kw
C.A. WWWW 250w.
N.A. St Pierre, 1kw.
Europe. R.Koenigsberg 1.5Kw.
verified 1933.
Africa. Sierre Leone 10kw.
Asia. JOID 500w.

TRINIDAD 610 kHz, now has 50 kw,
listen for its sign on. D.Ricquish.

CHINA. Jilim Peoples BC Station,
Changchun.
738, 1530Khz, 2000-0530, 0850-1505.
Ningxia PBS, Yinchuan,
1287, 891Khz, 2210-0150, 0350-0600.
0920-1535.

Heilongjiang PBS,
621, 900KHz, 2040-0630. 0830-1530.
Gansu PBS, Lanzhou. 873 kHz.
per BBC MS.

MEXICO. XEABC, Radio ABC International
broadcasts in EE and SS on 770 kHz.
The station says they will soon be
on shortwave. SCDXers.

Yugoslavia. A new 100 kw tx, for
Zagreb was put into operation at
Deanovac on 27/11/79. Geneva plan
indicates frequency of 1134.
BBC MS.

LEBANON. Voice of Hope, this
evangelical station which operates
from Southern Lebanon. is now on
945 and 936 kHz.
BBC MS.

MONGOLIA. Ulan Bator Domestic
service 2200-1500 On 882 and 827KHz.
news at 1400-1420.
BBC MS.

IRAN. Kurdish Programmes now
1730-2130 on 558 kHz.

BEST OF THE MONTH Shortwave

Through an oversight the December SW
B.O.M. didn't reach Wellington. Here
they are now:

Over 9 - Brian Strong - 4VEH Haiti,
11835 2kw 90 points.
Under 9 - Bill Huddleston - Malawi,
3380 100 kw 110 points

TE ARAROA EXPEDITION - Paul Edwards and John Allechin 12-22 / 11 / 1979 5

540	KTSA 0851 contest fr	930	KHJ 0744-1300 Gd	1280	KFRN 0830, 1428
560	KWTO 0644 Wx pr, het.		CJCA 0825.1246 clear	1290	KHSL 0800* 1345-1428 Gd
570	KLAC VG 0844, 1050	950	KJR 1443 Exc.0809		WHIO 0710. ITRN 0709:KMBN
580	KMJ VG 0923-1340 Larry K	960	KABL 0859, 1007 orch	1300	KMPS 1205 VG C&W
	KFXD 0911 pops o/KMJ		KARZ CBS 1100	1310	GIOK o/KDIA 1332 Fr, Wx
	WTBW 0950 Gd steady	970	KYTE 1023 gd C&W	1320	KXYZ gospel 0651
590	WPLO ? EST u/KGMB		KPUA pops gd 1430		KGNR 0648, 1354 Exc
600	KROD 0905 call. KOGO 0755	980	CKRM C&W 0752 o/KPWB	1330	KPH fair 0625 call
	KSJB C&W 0855 fair	990	XET 1205. 0952 L/A	1350	KSRO 1417 call, mxd
610	WDAF '61 Country' 1011	1000	HJAR 0707 fr. KOMO 09	1359	DYMR 1041-1105 fr EE
	KPRC 1429 Exc	1010	KIQI 1454. KLRA 1144	1360	WSAI 0812 VG. KRYS 0744
620	WSUN C&W fair 0932		CBR *1230 VG. always		KGB 0849 VG 'New 13-K'
	KIPA 0804. Exc 1428		XEHL 1214. KXEN 1245	1370	CFOK 1319-1400 fr o/KEEN
	KGW mixed 1109 Pops	1020	KDKA talk 0748	1360	KFIV weak ad 1512
650	KORL. WSM 0747, 1033 mxd		KBCQ 0639 pops fair	1380	WLGY 0645-1015 pops. XECCO
660	WRBC gd 0718 pops. 1104	1030	WBZ 0619-0819 local		0713. KTOH 0755 C&W Exc
670	WMAQ 0919 VGd-1230		KTWO 1130 C&W Exc	1390	KCEY 0758 Exc local Hx
	KBOI 1205-1450 gd		KCTA 1207-1330 Local	1410	CFUM 0714, 1427 Exc
680	KNRB 1012 pops Exc	1040	WHO 0621, 0808, 1115 Ex		WIZM talk, id 0700
690	CBU 0827-0900* 1335 Exc	1050	XEG 1134 Exc. WHN ?		WUNI 0634 C&W fr
	XETRA 1012 EZL u/KKUA		0741. CHUM 0738 Exc	1420	KCCN 0700 on, Good
700	WLW 0827 good	1060	KYW 0634, 0723, 1115		WOC pr-fr 0720
710	KLPC gd 1110, 1443		Exc. CFCN 1444 Exc		KSTN gd id 0656
	KIRO 'Nix R 711' 12-1320 VG	1080	KIOE 1203 Ex. KRLD		KTOE fr 0703
720	KDWN 1130 call fair		0819 Equal 12B, 1130	1430	KGAY C&W, id 1526
730	XEX 0912. CKLG 1012-1443	1090	XEPRS 1209 gd SS		KALI 0952 gd, SS
740	KTRH 1020 Exc always		KING 0736, 1507 Exc	1440	WHHY pops pr-fr 0615
	KRMG 1047 pops u/KTRH	1100	KPAX 0823 Exc		KOPA teating 0838
750	KPOD 0955-1601 pr-VG		WWWX 0836 clear pops		KUHL 0805-20 pops, gd
	KXL 1400 on. Test 0933	1110	KHEI 1540 Exc.		KEYS Texas Nix 0600, 0700 Ex
	WSB 0743-0950 good LK		KRLA o/KPAB fr 1210	1460	KSO 0702 C&W, fr-gd
760	WJR NBC Nix 0800 o/KGU	1120	KPNW NBC 0905	1470	CJVB weak 0926
770	WABC 0632-0805 good	1130	GKWX 12-1345 Perfect	1480	KYOS pops, clear 0701
	KOB 0720-1000 Exc	1140	KMJJ 0721, 0917:KRAK	1500	XERH 0650-1040 VG
780	WBBM/KCRL mix all nite	1150	KSAL 1149 o/XEJP		KUMU 0800 id, exc
790	KKON 0753-0947 perfect		KAGO 1445 call mxd		KXRK Larry King 0826, fr
	KABC 0720 phone show	1160	KSL 0613-1243 Exc		KSTP 0612-0858 Exc
820	WBAP 0623, het 819	1165	CRL *1000 very weak	1510	WLAC 0619 Exc, rock
830	KKI Exc 0945 always	1170	KOHO Exc 0650 E&JJ		KGA 0757 C&W, VG
	WCCO 0708 VG Wx, sport		KCBQ 1417 ads good.	1520	KOMA 0600 on. Exc. first in
840	WHAS 0747-1009 pr-fr	1180	WHAM 0619-1105 local		KACY/KYXI mxd 1445, 1540
850	KHLO 1502. HJKC ? 1002		VOA *1130-1210 good	1530	KFBK 0600 all nite, exc
	KOA 1011 Exc.		KOFI 1306-30 fr-gd		WCKY mxd KFBK 0833
860	XELI 0845-0915* fr-gd		Petrolera 0854 gd	1540	KISA Rock Exc 0723, 0619
	CFER 1215 on. 1522 VG	1190	KEZY fr 1154 rock		KZLA 0758, 1100 het. Larry K
	KOAM fr C&W 0810, NBC 09		KLIP 'Powerline' 1150	1550	KQWB pops fr 0653
870	WVW 0817-1023 Exc: KALM	1200	WOAI 0837 Exc		KKHI 0734-0800 B. Mx
880	WCBS 0646-0747 Potent	1210	WCAU 0605 Nix fr		KGAR 0800 C&W. 1320.
	KRVN 1135 Wx, C&W gd		KZOO 0645 good	1560	XEVIP EE pops 1218
890	WLS 0548, 0949 fr pops	1220	CKDA 0841 fr. 1419 Ex	1570	CHUB 1253, fr 1327
900	XEW 1150. CJVI 0619, 1419	1230	Californians 1515-45	1580	KDAY all nite VG
910	KNLW Leona Creagh 0905	1260	KGIL 0555, 0715 clear		CBJ s/on 1100, FF, Fr
	KRIO o/KJJJ KNEW 0753	1270	KFJZ 0642 Wx fr: KNDI	1600	KATZ 1042 nx, 0745 Exc.
920	KXLY 0729 o/KARN		KTLC call 0749		
	KARN 0602-1000 gd	1280	KJOY pops 1310 fr		
930	Antilles 0902 o/KHJ		KIT 1200 call, ads 1449		

BROADCAST TRAIL

During August and September 1979, I spent just over five weeks in North America mainly on vacation, but also listening to both AM and FM radio, from many parts of the USA and Canada, as well as Bermuda, but I will concentrate on a few areas to give some idea of the flavour of local radio.

In Fresno, California, I called into KYNO exactly a year to the day after hearing them at Te Araroa. A guided tour around the station followed with many people surprised and pleased to see a real live foreign DXer! Fresno has about 20 stations and I listened to most of them. Formats varied from album rock, country and western to beautiful music and all Spanish. But some of the more interesting stations were from small towns within 50 miles of Fresno. KRDU 1130 is all gospel, KHOT 1250 was appropriate for 100°F Madera and KONG 1400 completes the series with KING! At night, clear channel signals were very evident, especially from the Rockies region such as KTWO, KOA, KOB and KDWN. Signals from as far east as Missouri were noted.

Montreal and Quebec City were quite different, mainly because most stations carried French programming. CKLM 1570 was very difficult to hear in Montreal, but excellent in Bermuda. Many local signals were logged such as CKO 1470, CFCF Radio 60, CBM and 28 relay transmitters of the Quebec Community Network and CHRC 800. Montreal was also a good spot for New York stations such as WKBW and WNEW.

The Maritimes are a different DX world. I visited New Brunswick, Prince Edward Island and Nova Scotia, and all are quite rugged or isolated. Coverage areas were limited, largely because all the stations must use directional aeralis to protect the USA and all were beamed north or across the Atlantic. I called into CFCY 630 Charlottetown, P.E.I. and CKCW 1220 Monckton, N.B., both pulled out piles of Scandanavian DX reports - but none from New Zealand. I did a lot of DXing in this area, logging all three P.E.I. stations and many from New Brunswick and Nova Scotia such as CKDH 900, CJCW590, CKEC 1320 and CHSJ 1150 the one Maritime signal to make it to NZ in the 1970's. My ears strained for Newfoundland but no sign of any signals at all.

In New England, I travelled extensively through Maine and spent so much time looking at new places that I only logged WRKD 1450 when in the small fishing village of Camden. However, in Boston there were some more stations to listen to, including old friend WBZ! Air conditioning units made conditions poor and only logs were WHDH 850, WEZE 1260 and "68 RKO".

After Hurricane David dumped inches of rain on Boston - and me - I decided to seek the sun, so I flew to Bermuda for 5 days of genuine tropical weather and fantastic DX. I stayed in a small guest house and in the evenings went out on the second floor verandah and settled down for some DX. At dusk, it was too early for US and Canadian signals but I wasn't interested in them. I was hunting the Caribbean!

I logged the local ZBM-1 1230, ZBM-2 1340 and ZFB 960 and then tuned the dial. First sign was WKVM 810 soon to be followed by most other Puerto Ricans from one end of the dial to the other. Most were in Spanish and as Caribbean signals only lasted less than an hour before being swamped by the Staets, I kept listening. In came 'You're listening to the Antigua and Barbuda Broadcasting Service' with strong signals on 620. Quickly down to 610 for Trinidad and there he was, booming in. A bit further down the dial for "This is ZIZ Radio - The Voice of the Eastern Caribbean" and excellent signals from 555. The following night gave ZDK 1100 on Antigua with an ID as "Zed 11", some BBC news on 780 was a good guide for the station and soon after came the ID as "Radio ZBVI Virgin Islands". Barbados 900 was also very clear as was "Radio Caribe International" on 840. A DXers dream come true because there were just too many to log, and having no DX guides I had to rely on memory for stations and frequencies. Three outlets from Jamaica were heard but rather weak and faded too fast to disappear under powerful American stations. Bermuda can be recommended as a good spot for DX.

Next stop was Nashville and a tour of WSM's Grand Ole Opry building. DX was difficult in Nashville due to Hurricane Frederic hitting town at the same time as I did. Country music was popular - of course and I logged a few stations like WWGM 1560, 10-10 WHIN, WSIX 980, WAMB 1190 and WKDA 1240.

Quite a vacation and a lot of reports to go out. Whenever I visited a station, the same message came through, they like to hear from listeners and especially foreigners. Bermuda remains the highlight, feet up, cool drinks, sun setting behind palm trees. WOW.

in memoriam

We have learnt with regret of the death of Jack Buckley in early December. Jack, who was in his mid-seventies was not only a member of NZRDXL, but was a founder member of the Southern Cross DX Club. Our sympathy goes to his wife, Nola, and to his children and grandchildren.

conventions 1980

Apart from the New Zealand Convention to be held in Auckland over Easter weekend and which will be attended by DXers not only from North Cape to Bluff but by visitors from foreign parts - including Roger Stubbe of HCJB, we have news of other Conventions during the year which may be of interest to world travellers. Before we get to them though, if you haven't yet registered for Auckland, get to it. Book with 'Convention 1980', P.O.Box 3011, Auckland, NZ

Southern Cross DX Convention: Queen's Birthday Weekend, 14 - 16 June 1980, almost certainly at Port MacDonnell, near Mt. Gambier (SA). Contact SCDXC, GPO Box 336, ADELAIDE, SA 5001.

European DX Council: Paris - 23 - 26 May 1980. Contact: Amitie Radio - Telex, M. Roland Paget, P.O.Box 56, 94002 Creteil Cedex, FRANCE. Send return postage.

Association of N.American Radio Clubs: 18 - 20 July 1980 at Irvine Campus of the University of California. Contact: Stewart MacKenzie, ANARC '80, 16182 Ballad Lane, Huntington Beach, CA 92649, USA. Two IRCs required.

Desert Radio

Ian Hitchener has written to tell that DESERT RADIO, Waikato, broadcast from 26 Nov. to 1 Dec. 1979 to promote, with success, Desert Fair. Though to start there were some problems with the unfamiliar British 53 these were smoothed out by the end when they managed an aerial current of 10 amps. They used a 34 ft. mast base fed with 40 ft. Counterpoise as earth. The future of 'Desert Radio' is uncertain, but if plans come to fruition, 100 ft. mast and studio/store building, they may be on air again at mid year. Ian and his colleagues thank those who listened and reported.



competition

WHICH IS YOUR FAVOURITE DX PROGRAMME?

BUENOS AIRES DX CLUB announces its 3rd International Contest running from 1 Jan. to 30 Oct. 1980 open to DXers and SWLs world-wide. Entries must be sent to the Club to arrive on/before 11 November 1980 and must state name of your favourite DX Programme with brief reasons for choice. Prizes will be two annual subs. to the Club and all contestants will receive an issue of the Club bulletin 'ACTUALIDAD DX'. Entries to: BADXC, Casilla postal No.68, 1650 San Martin, Buenos Aires, Argentine.

publicity

for the League and for the hobby came from a display put on by the Waikato/Bay of Plenty Branch at the 'Sport & Recreation Field Days' near Hamilton in November last. Organised by Jim Benzoni and David Munn and with contributions from others, two tents in 'L' shape contained a static exhibit of books, pennants QSL cards and even an RCA Rx of 1939 vintage in one and a 'listening post' in the other. A 30 m long wire about 8 m high was erected and sets were powered by car batteries or dry cells. David and Jack Eason had FRG7s, Jim an older transistor radio, Doug Galbraith a Sharp Stereo Transistor set. Colin Campbell added a DR28 on the Sunday. Saturday was not crowded but a highlight was an interview, on air, by Radio Waikato. Sunday was more rewarding and during a rainy period it became 'listening in the rain' as DXers were joined in the tents by interested listeners. Over the two days 41 countries were logged in the period 9 am to 5 pm (NZDT). There was considerable interest particularly from people with new and good sets and just beginning. An excellent effort and judging from photographs, quite and eye-catcher - Congratulations to all concerned.

SORRY WE CAN'T USE EVERYTHING SENT THIS MONTH BUT THANKS! WILL COME LATER (Ed)



Welcome to the January SW QSL Review and may I take this opportunity of wishing everyone a Happy New Year with lots of exciting veries to be received during 1980. Well space is at a premium so I'll open the mailbag and share all the exciting veries with you people have been receiving as of late.

ANDORRA: Adventist World Radio via Radio Andorra. 6215 kHz. coloured card showing AWR designs. Received by air in 4 weeks. (Bob Padula. Victoria, Australia.)

ARGENTINA: Radio El Mundo, Buenos Aires. 11755 kHz. QSL card and car sticker from Amelia Ferreras, Jefe de Relaciones Publicas y Prensa. (Ray Crawford. Invercargill.)

AUSTRIA: Austrian Radio, Vienna. 21735 kHz. multi-coloured card showing station emblem received in 3 months by air. (B.Padula)

BELGIUM: Radiodiffusion Television Belge 21460 kHz. QSL card received in 3 weeks for a French report. QSL is one of a series featuring various stages in transmission of broadcasts. (Philip Hamlin. Taurenga) BARRY WILLIAMS comments that BRT is now verifying with a very plain form letter. They say to receive a QSL one will have to join their DX Club. Seems another QSL policy on the way downhill!

BRAZIL: Radiodifusora Londrina 4815 kHz. long letter and postcards and tourist brochures from Cesar Augusto Gomes, Director-Gerente. Apparently now 10 Kw and Ray comments: "Probably explains why we are hearing it regularly now as compared to it being very weak a year or two ago when it was only heard on odd days" (R. Crawford) Radio Gazeta 5955 kHz. cyclostyled verie letter received from Ligia Dotti. (R. Crawford)

BRUNEI: Radio Talivishen Brunei. 7215 kHz. card with East Malaysia in green and Brunei in yellow printed over a scene of a Brunei city. Received in 8 weeks by air with schedule for a report with 1 IRC. Now off SW so much valued. (John Allchin. Auckland.)

CAMEROON: Radio Bertoua. Form letter with a personal note on back. Verie signer Jame A. Fontem who was transferred from Garoua to Bertoua to commence an English Transmission from that station. Radio Bertoua (4750 kHz) is now 23 months old. (Barry Williams. Auckland)

COLOMBIA: Emisora Nueva Granada. 6160 kHz. QSL received in form of an actual photo of an RCN mobile unit overlooking Medellin City. Received in 2 months for Spanish letter and souvenir. Rpt was sent to Medellin and not Bogota QRA as the latter has yielded no reply after 2 years wait. (P. Hamlin. Nice one Philip. Still haven't been successful with him myself even after 20 yrs. ED) La Voz de Cinaruco 4865 kHz. Large 10"x6" QSL card received from Dept. Tecnico. Power 5 Kw. (R. Crawford and Steven Greenyer. Invercargill.) Radio Nacional de Colombia. 15335 kHz full detailed QSL card received in 4 weeks from v/s Juan Clitnago. (Peter Jones. Hamilton) R.Nac. Colombia. 9655 kHz. coloured postcard showing view of Plaza de Bolivar and National Capital. By air in 10 months for English report with 2 IRC's. (B.Padula.)

CYPRUS: Cyprus Broadcasting Corporation, Nicosia. large multi-coloured card by air in 4 weeks for frequency of 9605 kHz. (B.Padula.)

ECUADOR: Ondas del Zamora 4850 kHz. verie letter from J. Javier Eguiguren, Gerente for Spanish report. (R. Crawford). HCJB, Quito. 3220 kHz verified with full detailed postcard but no power given. (R. Crawford)

ETHIOPIA: Voice of Revolutionary Ethiopia. 9560 kHz. Green coloured QSL Card and program schedule received in 3 months for EE rpt with 1 IRC and postcard. (Paul Aronsen. Invercargill.) VORE 7165 and 9560 kHz full detailed green QSL card received by air together with program schedule and station booklet. (Dene Lynneberg. Titahi Bay.)

GUAM: KTWR Agana. coloured card showing palm trees. By air in 4 weeks for English report with 1 IRC for 15230 kHz. (B.Padula)

GUATEMALA: Radio Tezulutan. 4835 kHz. Verie card and letter in one motnh for a Spanish report from v/s Oscar Alejandro Prado Choc., Secretaria. (R. Crawford and S. Greenyer)

NEW CALEDONIA: Radio Noumea 3355 kHz 20 Kw. verie form letter. Blue overprinting on white paper, shows a map of New Caledonia. Test in French. Frequencies and transmitter powers listed and the appropriate one ticked. Verie signature defeats translation, but Brian comments that it looks like a prescription from a doctor. By air in 1 month for rpt with 2 IRC's. (Brian Strong. Wgtn.)

TURKISH FEDERATED STATE OF CYPRUS: Bayrak Radio 6141 kHz. Verie letter & folding card from Director Hakkı Suha, expressing suprise at reception in NZ because of low transmitter power (7.5 Kw) Also sent 83 page tourist book plus big package of local tourist brochures (and an odd-one out for Acapulco, Mexico!!) All received in 9 weeks for EE Rpt & IRC. (Brian Clark. Auckland.) Same 6141 kHz in 20 days for EE rpt & Postcard & 2 IRC's. (Paul Edwards, Wellington.)

Well that's all space allows for. Thanks to all the above mentioned contributors. If you have sent in items for use and they haven't appeared yet don't worry as I am being to get a backlog of items but rest assured they will all be used. Till next time. 73's Dene Lynneberg

Shortwave Mailbag

with Stuart Forsyth in Auckland

Greetings to you all this month from Auckland. I hope that the festive season has treated you kindly, and that you're all set to settle down to another year of good DX. The hot summery weather has made DXing a little undesirable here in Auckland, but in some parts of the country, I feel we can expect evidence of more intensive DX than would normally be expected at this time of the year. The mailbag this month is a little larger than what we had at the same time last year. Without doubt the highlight of this months contributions is Ray Crawford's QSL that he received from Galei-Zahal, Israel on 2442 Khz, 1 Kw. It was clearly the best of the month, and would have to be one of the choicer QSL's received so far this year. Without further ado into the mailbag we'll go, starting off this month with

TOM CHISNALL, Nelson has reported 25 loggings during November and December, with veries in from Radio Free Europe 21655, Poland 7270, ORF 15560, SRI 21690 and KTWR 17830 and stamps! Tom, loggings should be submitted in Bandwatch format. CU Convention too.

BRYAN CLARK, Auckland sitting next to me, has told me that he has them back from DW21500, NBC Owerri 4755, IBA 29075, 21600, 25640, ORF 21735, and Zimbabwe-Rhodesia 3396 for country number 201. Only 6 out?

ARTHUR DE MAINE, Auckland, has only one out, but veries back from R.Korea 12090 (with the details on a pennant), RSA 25790, and R.Tashkent 15460

MARK MURRELL, Nelson has 16 away and two back from SRI 15300, and RA 9760. Keep trying to increase that country total. Will write!

STUART FORSYTH, Christchurch with two months worth of veries has replies from SRI 21695, IBA 15615, V of Chile 17800, BBC UK 25650, RM Irkutsk 21490, 21530 and Dushanbe 21745. Not much DXing done due to an impending shift.

MASAMI ONIZAWA, Tokyo, after a short break reports veries in from REE 15395, SRI 21695 and R.Gaucha 6135. Report when you can, Masami, it's always good to hear from you.

JIM MacFARLANE, Wainuiomata, has a healthy list of veries in from P2K3 3925, RA 6045, 9700 HCJB 6130, 9745, R.Peking 9460, RN 9770 (Bonaire?), BBC 9640, VOA 10000(???), NHK 11815, R.Sweden 15270, SRI 15305, RM 16mb DW 17825. As well as this Jim also lists an impressive list of "extras" that he received in addition to his QSL's. Ta!

PAUL RAWDON, Eastbourne, has 10 reports out and a QSL in from Tanzania 15435. No reports, no postie, Paul.

TERRY SHEWAN, Blenheim, has 2 out; and 1 in from RN 17605. Please send your SW & BC notes in on a separate piece of paper, Terry.

JACK SEARLE, Haumoana, has a host of them back from IBA 21560, 17645, 21625, V.O.Indonesia 15200, Budapest 17710, ORF 15560, RFI 17850

Sweden 6065, 15390, Poland 3955, Finland 21465 VOA Phil. 26000, RM Armivir 12010, 21740, Frunze 21530, Vinnitsa 17835, AIR 9535. Waiting for the car is about as bad as waiting for those veries. The Peking calendar is a real beaut.

JIM GORMAN, Papakura, has been busy reporting 31, while the postie has been just as busy dropping them back. QSL's to hand are from Greece 7125, RLiberty 25690, ABC 9610, HCJB 15245, R.Peking 17855, 15520, 15600, Norway 11850, RM Ryazan 15140, Finland 21465, AFRTS Del. 21615, RFI 25820, ORF 21500, 21630, 21735, NHK via Sines 15130, 15305, KTWR 17770, Nigeria 4990, RN Hilversum 5955, R.Kiev 9800, BBC UK 15070. Had a quiet Christmas I hope, Jim?

A.... BARNES, Masterton, advises us of 2 veries to hand from RCI 17820, HCJB 9745. Ta!

IAN CATTERMOLE, Blenheim, has a lengthy list from REE Tenerife 15365, RN 17605, Kiev 11775, RM 15245, 9520, Vienna 21670, 21500, R.Gaucha 11915, V.O.Chile 17790, P&P 15505, 15460, 15450, R.Peking 15600, 15115, 15230, AFRTS 9585, Gabon 4777, NHK 15270, R.Bras 15290, FEBA 15400, R.Relej 4832, 6006 (after 3 tries. I'm still waiting!Ed.) IBA 21565, 21575 and 11975. Whew!

GRAEME PEARSE, Masterton, has a good list of veries in from RSA 17780, RFI 17850, RA 17890, and RN 17695, 17605, 9895 (all Lopik), 9770 and 21640 both Bonaire. QSL's featured the Bonaire Relay site. BRIAN WEBB, Upper Hutt, has a long list of reports out, but not such a long list of veries in from RA 11870, 17795, 17890, 21660, VLM4, VLQ9, HCJB 11900, 9745, 6130, RNZ 11945, 15345, 17860. The rest are sure to follow, Brian.

PETER JONES, Hamilton, is yet another DX'er with a busy postman. He has delivered the following to Peter, Lagos 4990, WYFR 21525, Cuba 17705, IBA 15485, RFI 21465, RN Lopik 5955, KTWR 17770, Kiev 11920, Sweden 15435, ORU 6010, Budapest 17710, ORF 15260, BBC 21710, RM 21740, 9800, 7310, 9780, 11980, Vatican 17900, REE 6065.

ROBERT WEBBER, Te Kuiti, has veries in from BBC 15420, SA 21535, DW 21670, RA 21640. Bit of a squeeze!

Shortwave Mailbag

JIM WEBB, Manakau has but four back from Hungary 9833, Bulgaria 11750, IBA 15485, Finland 21465. 73's for 80 Jim.

ARTHUR KINDELL, Levin, reports that a verie has turned up from RM 9795 via Komsomolsk-on-Amur. The Russians are always cagy about their transmitter sites, unfortunately.

RAY CRAWFORD, Invercargill, has a lengthy list back from RM 21565, Vilnius 17845, S.Korea 15385, 15570, ORF 21575, Malaysia 15295, R.Milne Bay 3360, Cyprus 9695, Liberty via Spain 21455, RFE via Portugal 17805, 15355, 15215, 15145, 15255, RN Madagascar 25650, Galei-Zahal 2442 from a 1978 report (fantastico!), Ecos del Combeima 6025, Malargue 6160, TIRL 9490, R.Nacional Colombia 9635, La Voz del Junco 6072. CU soon, will write.

BOB PADULA, Victoria, has them to hand from KTRW 17770, KBS 9870, IBA 15300, 11643, 15615, 21575, NHK-RTE 17815, VOFC 9610, REE 15280, 17890, Sofia 15135, Cook Is 11760, ORF 21630, 17895, 21500, RSA 21675, Saudi Arabia 15060, Vilnius 15515, Afghanistan 15075, WYFR 21615, Yerevan 15515, UN G'ville 15225.

LEIGH MORRIS, Palmerston North, who has been getting his washing mixed up with his DX lately, claims veries from Vilnius 17845, 11735 and 11790, Veritas 17790, Cook Is 11760, FEN 3910, IBA 11655, 17815, Philippine Nx Agency via FEBC 9720, Lebanon 6550. Do plastic clothes pegs do much for insulating your holiday aerial?

ARTHUR CUSHEN, Invercargill, has been busy, with veries in from RN Lopik 15235, 21685 HCJB 9705, RN Madagascar 11735, NHK via Sines 15130, Sweden 11905, AFRTS By 9575, AFRTS Gr 9585, SRI 21630, RBI 21540, ORU 21460, AFRTS Del 25615, R.Veritas 17790, Voz de Chile 11755, ORF 21630, REE 17890, IBA 21600, 21620, Pakistan 21635, RFI 25820, 25900. Thanks Arthur. Sorry I missed you when in Invercargill.

JOHN MAINLAND, Wellington, has veries back in from R.Peking 15520, Vatican 6210, Brasilia 15290, VOFC 15270, Budapest 17710, Portugal 11925, Sweden 11905, 11845.

CECIL SYMMES, Karori, has only 2 back from SRI 17750, and Reloj 6006 for country 101 or 102. Cecil hasn't been too well lately, so I hope you've recovered, and the best wishes for 1980.

DAVID HUGHES, Palmerston North, whose namesake invented the microphone he claims, has veries in from Cuba 17705, RN Madagascar 6020, Bonaire 11720, (RN programme sked says Lopik, QSL says Bonaire), R.Peking 17700, PLA Fujian 3200, Hunan PBS 4990, Bucharest 15340, 15335, 15250, 11735, as well as a calender and a Listeners Club Diploma. David works at the other end of a transmission.

HAMISH CAMPBELL, Hastings, in between school and sports has finally reached 50 QSL's with replies from REE 11880, NHK 17755, R.Portugal 11935, FEBC 11765, AFRTS Bethany 15430, R.Peking 17635. The weather certainly is all against summer DX. We'd all be better with longer holidays in the winter months..... Best wishes to you in 1980 as well.

BEST OF THE MONTH - January 1980	
<u>Under 9 mHz</u>	
Ray Crawford	- Galei-Zahal, Israel, 2442, 1 Kw 134 points
<u>Over 9 mHz</u>	
Arthur De Maine	- Radio RSA 25790, 250 Kw 113 points
CONGRATULATIONS!	

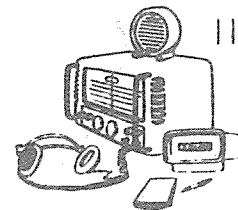
The Shortwave pages have been brought to you this month by your guest editors Stuart Forsyth and Bryan Clark who are standing in for the regular editors Barry Williams who has headed South to the Mainland, and John Allchin who has gone over the waters to the land of Oz. Hope you both have a pleasant time, and look forward to seeing you both at Easter. SF

PHILIP HAMLIN, Tauranga/Wellington, in response to your question. Radio Noticias del Continente has a power of 50 Kilowatts. Courtesy BC Writing re DR28 - BC

BANDWATCH	CONTRIBUTORS	Thanks to:
CC Colin Campbell	DF Duncan Fraser	JW Jim Webb
CS Cecil Symmes	JS Jack Searle	BP Bob Padula
AC Arthur Cushen	MO Masami Onizawa (Japan)	
PR Paul Rawdon	LM Leigh Morris	JR John Ridge
RW Robert Webber	GP Graeme Pearse	PJ Peter Jones
JM John Mainland	JG Jim Gorman	MM Mark Murrell
AB Andrew Booth	AK Arthur Kindell	BC Bryan Clark

SHORTWAVE BANDWATCH

with BRYAN CLARK



Happy New Year everyone! Quite a bumper month for contributions, though a lot of December latecomers helps - to make sure we do justice to what's being heard, as a general rule, any item which appeared in the last two Bandwatch Trails has been deleted. If we still run short on space, the Radio Moscow World Services & Aussies will be first to go! Some exotica this month including Greenland, Guyana, Nicaragua, Nepal, Swaziland on 25m, Andorra, a frequency change for Radiobras, Nepal on 90, 41 & 31m, a new 11m channel for HCJB's 100 watt tests, and a reported test from Dubai's new 300kw outlet. A couple of pointers to contributors - notes in ASCENDING FREQUENCY ORDER please - it makes the editors job so much easier; out-of-band ssb feeders - my interpretation of the rules is that these don't qualify as shortwave broadcast stations as they are not intended for general reception and are usually not QSL'd either. OK?

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITIALS
3305	1255	PAPUA-NEW GUINEA	Radio Western	with Christmas carols. S/off 1300.	CC
3322	1300	PAPUA-NEW GUINEA	Radio Nthern Solomons	w/Pidgin nx. S/off 1303.	CC
3385	1300	INDONESIA	RRI Padang	in Indonesian with news. Ident 1315.	CC
3425	1435	NEPAL	Radio Nepal	in EE, good level but bad static. Has Nx 1450, wx 1500. EE concludes 1520. Anncd 9590 & 792 in //.	JS
3955	1700	POLAND	Warsaw	in Polish then GG. Fair with severe het. Quick verifier!	JS
3990	1730	WEST GERMANY	Radio Liberty	, Biblis int.signal then into a Russian language.	CC
3995	1730	ITALY	RAI Rome	in Italian with relay of Home Service. Ident good.	CC
4680	0806	ECUADOR	Radio Nacional Espejo	fair in SS with ident & Latin mx.	PJ
4719	1240	INDONESIA	RRI Ujung Pandang	with ident at this time. Popular mx prgm, good.	PJ
4755+	0830	BRAZIL	R.Educacao Rural Campo Grande	fair thru teletype with West Brazil t/checks.	DF
4765	0825	BRAZIL	Radio Emisora Rural	, Para with PP anncts, t/check, mx, fair 3/1.	DF
4725	1330	BURMA	Rangoon	with ident in Burmese, then vernacs. Good, hrd regularly.	CC
4802m	0610	ECUADOR	R.Popular Independiente	fading in. Strong later but poor readability.Bad het.	DF
4815	0630	COLOMBIA	R.Guatapuri	with many SS idents, mx, poor. (Gd reception for January.Ed)	DF
4855+	2000	MOZAMBIQUE	Maputo	with EE prgm from Zimbabwe Front 27/12. African mx 2007.	BP
4895	0815	BRAZIL	Radio Bare Manaus	w/typically Brazilian prgm in PP. Fair, heavy QRM frm 0830.	DF
4880+	1014	VENEZUELA	Radio Universo	fair to poor in SS with mx & idents.	MO
4980	0900	VENEZUELA	Ecos del Torbes	good level with ident in SS.	JS
4994	1400	VIETNAM	Hanoi	in Vietnamese with ident & news,good. Also 4944 with i/sig 1355.	CC
5010+	1748	MADAGASCAR	Tananarive	with EE pgm from Zimbabwe Peoples' Revolutionary Voice and Radio Freedom organisations. Hrd 27/12.	BP
5035+	1226	KAZAKH SSR	Alma Ata	relaying Tashkent s/on. Uighur pgm to Asia from 1230, 28/12.	BP
5060+	1010	ECUADOR	R.Progreso	poor in SS with good Ecuadorian mx. Mixed with RR ssb station.	MO
5095+	0944	COLOMBIA	Radio Sutatenza	fair to good with typical Colombian programming.	MO
5920	0637	USSR	Radio Moscow WS	with political talk, reasonable strength but heavy QRM.	JW
5950	0646	GUYANA	Action Radio	with relay of West Indies/Australia cricket test from ABC. 29/12. Local prgm of mx, advts & cricket summary from 0705. Signal improving to fair. Also hrd on remaining days of test. BC 0650 cricket relay 29/12.AC. 0800 time pips,full ident then EE gospel prgm 28/12 fair. 0630 29/12 cricket. LM. (Sri Leigh you shd be first! Ed)	
6000	0755	BRAZIL	Radio Inconfidencia	Belo Horizonte in PP w/mx prgm, poor.	DF
6065	0650	SWEDEN	Radio Sweden	vg with Home Service //15390 also very good. Quick QSLer.	JS
6080	1230	AUSTRALIA	Radio Australia	opening in EE to Papua-New Guinea.	CC
6110	1700	WEST GERMANY	VOA Munich	relay with EE news, good. (Site per Frequency Sked.Ed)	CC
6115	0550	MEXICO	XEUDS	Radio Universidad de Sonora id in SS & classical mx, fair level.	LM
6130	0730	ECUADOR	HCJB	Quito strong in EE.MM. 0815 EE Nx & rlg prgm.AB.0856 DX P/tine.	RW
6140	1400	AUSTRALIA	VLW6	Perth with EE news, fair after ident. 1430 night trots //9610.	CC
6150	0720	COLOMBIA	La Voz de Huila	in SS with mx prgms. Poor.	DF
6165	0650	SWITZERLAND	SRI	w/non-stop Swiss mx prgm. EE id 0658 "to Europe & adjoining areas".DF	DF

FREQ	TIME	COUNTRY	STATION	RECEPTION & PROGRAMME DETAILS	INITIALS
6190	0800	WEST GERMANY	Radio Bremen	fair with ident, nx & mx prgm in GG, Saturday only.	BC
6215	1900	ANDORRA	Adventist World Radio	prgm s/on with multi-lang ident, then GG gospel prgm s/on in GG but soon faded.	PR
6210	0629	VATICAN	Vatican Radio	s/on with ident in Italian, EE, SS then Mass. 0705 Nx in FF, EE & Italian. S/off 0740. Very good signal.	DF
6210	1450	PAKISTAN	Radio Pakistan	Rawalpindi with EE news, good.	CC
6330+	1244	VIETNAM	Son La	well hrd 28/12 in Vietnamese dialect. Into different language 1245.	BP
6338	1730	NORTH KOREA	Radio Pyongyang	fair in AA at this time.	JS
6550	1849	LEBANON	Voice of Lebanon	good in FF. EE news at 1915. (Now verifying, Ed)	PR
6905+	1230	VIETNAM	Bac Thai	in Vietnamese to 1300, local prgm. Co-channel Cao Bang s/on 1330.	BP
7105	1500	SRI LANKA	VOA Colombo	with EE news. (Per Frequency Sked is 10kw to Sth Asia, Ed)	AC
7105	1435	NEPAL	Katmandhu	fair in EE ex 3425 & 5007.9590 not hrd. Co-channel QRM frm VOA.	LM
7115	0640	UNID	possibly Pacific area	with easy listening & pop mx in vernacs. T/check for '7 o'clock' at 0700 GMT. Who?? LM. (Only RFE Hungarian mx d Aussie hams when checked 8/1. Ed)	
6955	1930	CHINA	Radio Peking	very poor with news in EE.	JG
7140	0856	JAPAN	NHK Tokyo	with nx in Korean, good // 7195.	JG
7150	0724	GREAT BRITAIN	BBC London	clear with variety prgm & news.	MM
7155	1445	INDIA	AIR Delhi	has EE news and commentary.	AC
7165	1530	ETHIOPIA	Voice of Revolutionary Ethiopia	ident & EE cmtry. Into AA at 1600. Good.	CC
7170	1600	GREECE	VOA Kavala	EE nx, good. CC. 1935 fair in EE. CS. (site per Frequency Sked, Ed)	
7250	0657	VATICAN	Vatican Radio	w/station ident 0700 then religious mx, fair.	CS
7370	0603	USSR	R. Moscow	W.S. gd in EE. Also 7215 at 0703. JG. 7380 at 0655 vg. JS 1945 fair.	CS
7375+	1223	PAKISTAN	Islamabad	with Home Service, national songs & local langs.	BP
7412	0415	ISRAEL	IBA w/mx prgm	vg. Similarly at 0520. DF 7465 at 0510 in EE. FF from 0515, fair. DF	DF
9410	0451	GREAT BRITAIN	BBC World Service	exc in EE with Financial Report.	JW
9425	2000	ISRAEL	IBA Jerusalem	has news in EE, fair.	JS
9455	0400	EGYPT	Cairo	s/on in AA with anthem & chimes, very strong.	DF
9490	0530	USSR	Radio Moscow	World Service clear with music variety prgm.	MM
9525	0440	CUBA	Radio Havana	in SS with music prgm, fair with QRM.	DF
9530	0450	BULGARIA	Sofia	in EE to Nth America ex 9765 5/1, fair. JM. 1430 EE nx ex 9765.	AC
9570	0200	NEPAL	Radio Nepal	with test, good. EE ident then Nepalese. PJ (Foreign rpts say 9590. Ed)	
9575+	1000	GREENLAND	Godthaab	s/on in Greenlandic. Danish 1015 thru to 1050 f/out 10/12 and several times since. Clear of QRM. First time noted since 1968! (At least that long since last NZ reception too - at 1015 8/1 interval signal as in WRTVH taped here but will keep trying - my most wanted station. Ed/BC)	
9580	0830	ITALY	RAI Rome	int.sig & s/on in Italian, fair.	CC
9580	0457	SAUDI ARABIA	Riyadh	in Turkish, fair also on //11685. JM, both freqs hrd 0518 20/12.	BP+
9585	0700	CLANDESTINE (RUMANIA?)	Bizim Radio	, Turkish Communist Party station fairly good with s/on in Turkish. BC. (Douglas Doull, this is yr unid. Ed)	
9585+	0440	SOMALIA	Mogadishu	w/African mx. Nx 0450 mainly African origin. Vg till het 0452.	DF
9590	0800	NORWAY	Oslo	has EE "Norway this Week" on Sundays at this time.	CC
9610	0404	USSR	RM WS	good w/Mailbag prgm. JG. 1345 in EE with musical prgming.	CC
9620	0905	MONACO	TWR Monte Carlo	has EE ident at s/on prior GG gospel prgm, fair.	BC
9650	0810	MONACO	Trans World Radio	very good in EE with religious prgm.	AB
9655	1000	THAILAND	Radio Thailand	EE id, then Vietnamese prgm. 1055 ident, gongs & EE news, good level. Where have all the jammers gone?	LM
9655	0720	GREECE	EIRT Athens	w/continuous Greek mx till 0730 Greek ident & s/off, fair.	DF
9665	1800	PORTUGAL	IBRA Radio	EE ident & multilingual prgm, strong via Sines transmitter.	JS
9675	0630	POLAND	Warsaw	good in EE with special Christmas prgm.	JG
9700	0006	BULGARIA	Radio Sofia	in EE with idents and music.	AB
9715	0900	PHILIPPINES	FEBC Radio	International s/on in RR under RN. 1300 has JJ, 1400 CC, gd.	CC
9740	0045	EGYPT	Cairo	opening in SS with chimes & ident.	JS
9770	0750	NETHERLANDS	ANTILLES RN	Bonaire on Dutch Mx, fair. (Note transmitter site. Ed)	GP
9895	1010	HOLLAND	Radio Nederland	fair-good for Europe till 1020 s/off. QSL in 2 weeks.	GP
9888	0445	UNIDENTIFIED	fair signal	in AA, but noisy QRM. Who?	JS

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITIALS
11647	2103	ALGERIA	Algiers	in EE w/nx & cmt. Fair but poor copy. Subsequently hrd several days on only 11615. S/off 2130.	DF
11650	1700	KUWAIT	Radio Kuwait	with nx and popular mx. Clear though not strong.	MM
11740	1530	SWAZILAND	TWR	has EE gospel prgm followed by full ident at 1600.	AC
11745	0630	IRAN	Teheran	fair with talks in AA 4/1.	JM
11760	0610	CYPRUS	BBC East	Mediterranean Relay with EE Nx & cmtry on OPEC, fair.	CS
11760	0545	CUBA	Havana	in EE to the Americas & Caribbean. S/off w/anthem 0552. Gd but het.	DF
11785	0234	LEBANON	Beirut	with EE for North America. Poor, with QRM from Deutsche Welle 5/1.	JM
11785	0558	ANTIGUA	DW Relay	int.sig & ident. 0600 GG programming.	CC
11790	0445	USA	AFRTS Bethany	fair with football broadcast.	JW
11790+	2135	LIBYA	Tripoli	new freq in AA w/news roundup. //15450 also hrd this day, 28/12.	BP
11800	0430	PORTUGAL	R. Portuguesa	, Lisbon int.sig & PP prgms, good.	CC
11805	2205	USA	WYFR Family Radio	Okochobee good in EE, gospel prgms.	JS
11830	2210	VATICAN	Vatican Radio	s/on in EE for NZ, good.	PR
11838	0412	NICARAGUA	La Voz de Nicaragua	w/time anct, ident in EE, fair 5/1.	JM
11850	1600	PHILIPPINES	FEBC Manila	ident then RR prgm, good. Noted past 1630.	CC
11850	0315	SEYCHELLES	FEBA	in Swahili to East Africa, fair 5/1.	JM
11860	1630	SEYCHELLES	FEBA	int.sig & EE ident. 1640 into Afar, exc. CC. 1640 in Farsi, excellent.	PJ
11865	0150	MALTA	DW relay	in EE to Nth America with local ident, gd. Same freq is Sines at 0530.	DF
11875	0536	SPAIN	Madrid	with EE news, music and Spanish by Radio lessons.	RW
11890	0800	PHILIPPINES	FEBC	in EE for Australia ex 11765. AC. 0830 EE Nx for Aust/NZ, fair.	JM
11900	1900	CANADA	Radio Canada	International w/nx, wx & sports, fair in EE.	JW
11920	2100	CUBA	Havana	in EE for Nth America replacing 16m.b. outlet. Fair to s/off 2136.	LM
11935	0519	PORTUGAL	Lisbon	has EE news for Tourists.	RW
11935	0535	BRAZIL	Radio Clube Paranaense	in PP with mx, time checks etc, fair.	DF
11945	1600	GREAT BRITAIN	BBC European	Svce int.sig, ident, then into Rumanian, good.	CC
11965	1842	SWAZILAND	TWR Manzini	fair some days w/multi-lang id, int.sig, then vernac prgms.	BC
11990	1920	KUWAIT	Radio Kuwait	strong in AA with ident as "Huna Kuwait".	JS
12010	0215	USSR	Radio Moscow	World Service vg w/news & mx. Also on 12060.	GP
12020	1358	AUSTRIA	Vienna	int.sig & ident in GG, EE & SS. SS prgm 1400 good.	CC
15060	0600	SAUDI ARABIA	Riyadh	relay of Home Service in AA, very strong.	CC
15105	2000	GRENADA	Radio Free Grenada	in EE, mx, advts, nx at 2030, requests 2035 poor-fair.	DF
15110	2055	INDIA	AIR General Overseas	Svce in EE, very strong. DF. 2120 Delhi good in EE.	JS
15120	1815	SWITZERLAND	SRI Berne	ident, s/on, World News, very good. Also on 15350.	GP
15120	0809	ECUADOR	HCJB Voice	of the Andes strong in EE.	JS
15125	2000	BRAZIL	Radio Nacional	fair in EE, replacing 15270. LM. Brasilia gd 2015. PP at 2100.	PR
15130	0600	GUAM	KTRW Agana	int.sig then prgm in CC dialect, good.	CC
15145	0730	BRAZIL	R. Jornal de Comercio	ident in PP hrd 7/11, vg. Recently reactivated?	CC
15150	2131	CANADA	RCI Montreal	vg in EE with "Access". Also 15260 at 1925 in EE to Africa.	AB
15155	0240	SOUTH AFRICA	RSA	in EE to Nth America. Anncd 11900, 17780, 15220 all poor-fair.	DF
15220	0158	SOUTH AFRICA	Radio RSA	opening in EE to Nth America, fair. Also hrd //15155.	JR
15220	2040	MADAGASCAR	Radio Nederland	relay in EE. Severe splash from adjacent channels.	JR
15225	0610	TURKEY	Ankara	here ex 15230, fair with Turkish news, 4/1.	JM
15235	0930	JAPAN	NHK Tokyo	exc in EE s/on to Aust/NZ. JW Also 15270 in EE 0600 with EE cmt.	MM
15240	1530	YUGOSLAVIA	Belgrade	with EE to 1600. Also on 15300 but blocked by Paris.	AC
15240	1000	GUAM	Trans World Radio	int.sig and s/on for Indonesian prgm. S/off at 1057.	CC
15260	0625	IRAN	Teheran	with talk in Farsi, fair. Recent new frequency, noted 4/1.	JM
15265	1827	GABON	Africa No. 1	, Moyabi still testing, in EE 14/12. JR. 1920 in AA. EE later, fair.	JS
15275	1800	SEYCHELLES	FEBA	with interval signal and identifications, good.	JR
15300	0500	ISRAEL	IBA	in EE very strong over QRM, //15105, 11638, 9835, 17685, 21500.	CC
15345	1830	KUWAIT	R. Kuwait	mx & nx. GP. 1930 //11665 distorted. JS. 2034 EE mx prgm, good.	AB
15335	0430	COLOMBIA	HJZP Radio Nacional	good in SS till s/off 0440.	JS
15360	0440	ASCENSION ISLAND	BBC Atlantic	relay ex 15400 with WS till closedown 0445.	DF
15365	0540	ROUMANIA	Radio Bucharest	in EE to Africa with news, fair.	DF
15385	2310	SOUTH KOREA	Radio Korea	in EE with news, good. Unlisted frequency.	DF

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITS
...	still a lot to squeeze in so let's split!				
15395	0300	AUSTRALIA RA Shepparton, cricket test relay, gd. JS.0655 v.strong. DF	21470 0857	GREAT BRITAIN BBC WS s/on & nx. CC	
15425	0330	SRI LANKA SLBC EE rlg, good. JR	21475 0700	BELGIUM BRT w/nx in Dutch, very strong weekdays. S/off 0715. CC	
15430	0300	MEXICO XERMX R.Mexico fair SS. JS	21480 1952	ECUADOR HCJB EE nx,rlg prgm. AB	
15435	1800	TANZANIA Dar es Salaam t/check, ident & nx till 1815 s/off.Fair. LM EE nx, splash AFRTS & WYFR. JR	21480 0819	DUBAI Radio Dubai excellent copy 30/12 only with test in FF. PL (First news that planned 300kw tx are on air and no reports from any overseas DX source to date. Stay tuned! Ed)	
15480	1930	PAKISTAN to Europe ex 15470. AC	21500 0520	ISRAEL IBA news in FF, gd but fades. DF	
15520	0004	CHINA Peking fair w/nx & nx. JG	21500 1759	EAST GERMANY RBI s/on in EE. BC	
15560	1845	AUSTRIA Vienna gd.S/off 1855. GP	21515 1738	FRANCE Paris Calling Africa new freq regular since 30/11. BC. 1705 in EE //21620,21580,17860,17850,17795, 15425,15360 & 15300 all hrd 24/12. CC 1730 very good in EE to Africa. AK JS	
15540	0659	USSR Moscow EE Newsreel, fair. JG	21520 0900	SWITZERLAND SRI Berne very strong in EE //21695 poor. Latter best 0700. CC	
17605	1830	HOLLAND RN Lopik in EE for Africa gd. PR. 1843 gd. CS. 1900 EE. GP 0720 EE s/off to West Africa, gd. DF 1005 Hilversum w/Xmas pgm, vg. AK	21535 0453	SOUTH AFRICA RSA w/EE & FF anncts, good. CS. 0500 FF prgm. CC. 2055 fair opening EE to Europe & W. Afr. JS 2125 good but fluttery signal in EE. BC	
17642	1910	PAKISTAN R. Pakistan strong in FF. Nx 2000. Off 2015. Poor modul. JS	21555 0730	USSR Moscow WS gd in EE. CC. 0800. JG	
17685	2240	ISRAEL IBA in EE, poor due ute. DF	21560 1000	WEST GERMANY Deutsche Welle exc in EE. JW. 0700 GG fair, improves. CC	
17695	1300	USSR Peace & Progress with nx. MM	21560 1700	ITALY RAI Italian nx good //17810. CC	
17695	0700	HOLLAND Radio Nederland Lopik in EE to West Africa gd //11720 poor, 15235 poor due VLF15. CC	21570 1700	USA AFRTS Delano live sportscast, clear. MM. (Note correct freq Mark per sked)	
17695	2034	NETH. ANTILLES RN Bonaire gd w/Newsline, Afrosene. AB. gd. GP RN in PP DX prgm 2250, good. DF	21575 1750	USA VOA Ukrainian Svce vg on this new and unlisted frequency. BC	
17680	0210	CHINA Radio Peking EE v. weak. DF	21580 0103	AUSTRALIA RA with test cricket relay for Sth & S.E. Asia //15395 for Pacific, fair. BC. 0620 JS. 0230 gd. CC.	
17705	1815	GREAT BRITAIN BBC newsreel, gd. CC	21585 1840	SWITZERLAND Berne poor sigs in EE. CS	
17705	1600	CZECHOSLOVAKIA Prague in EE mixed with BBC. AC	21590 0215	PAKISTAN R. Pakistan in Urdu, EE from 0230. Swahili hrd 0330. CC. 0230 slow speed nx in EE gd //17830 fair. DF	
17710	0610	USSR Moscow gd with Mailbag. Also 17800 at 0800, 17810 at 0900 EE. JG	21605 2128	SAUDI ARABIA Riyadh noted here since late November vg local mornings. BC	
17725	0425	KUWAIT R. Kuwait gd in AA. JM	21620 0730	FRANCE RFI in FF //21580. CC (Note freq 21635+1700 PAKISTAN Radio Pakistan s/on / Ed) new freq in Swahili ex 11675 26/12. BP	
17730	1705	BELGIUM Brussels good but QRM. JS	21640 0223	JAPAN NHK vg EE nx. AK. 0230 SS. CC	
17760	1915	CANADA RCI vg in EE //15325. GP	21640 2045	NETH ANTILLES RN Bonaire in EE. GP	
17785	1845	PORTUGAL Lisbon FF. 1900 PP. CC/CS	21665 1750	USA WYFR Family Radio FF s/off 1755. AC	
17785	0430	INDIA AIR s/on in AA, Koran, gd. JM	21690 1100	SWEDEN Stockholm w/EE prgm, clear. MM	
17770	0240	SOUTH AFRICA Radio RSA fair in EE to Nth Am. ex 17780 5/1. JM	21730 0800	NORWAY Oslo EE Sunday vg. CC. RW	
17800	0757	JAPAN NHK General Svce, exc. CC	25615 0012	USA AFRTS Delano nx, sports, good. PR	
17805	0605	USSR RMWS in EE. CC. 0910 fair. CS	26020 0230	ECUADOR HCJB testing ex 26000 good, clear 22/12 & occasionally since. BC 0315 28/12. D. Doull. 0232 peaking. PJ	
17815	0615	SAUDI ARABIA Riyadh Holy Koran Station fair mxd USSR in CC. JM			
17850	1730	FRANCE Paris calling Africa vg in EE with news and music. GP			
17875	0555	WEST GERMANY DW Cologne s/on in EE to West Africa 0600, good. CC			
17885	2130	ECUADOR HCJB rlg mx, gd in EE. JG			
17910	1600	PAKISTAN slow-speed EE news to s/off 1615. //21755. AC			
21450	0910	USSR Radio Moscow WS fair in EE. CS			
21460	0030	USA VOA Delano Breakfast Show gd. CC. (Site not Philippines. Ed)			
21465	0650	EAST GERMANY RBI S.E. Asian Svce in EE, fair. DF. 0645 //21540. CC			

CREDITS THIS MONTH AT END OF MAILBAG.

ARTHUR CUSHEN'S SHORTWAVE REVIEW

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This month is the start of the 20th year of the DX World Programme on Radio New Zealand. Other highlights include the reactivation of Darwin, reception of HCJB on 26020, Guyana 5950 heard with cricket relays up to 0700 and Swaziland now using 100kW. This information is part of the broadcast on Radio New Zealand medium and shortwave on Sunday January 6 1980 at 0915GMT. All times are GMT, add 13 hours for New Zealand Daylight Time. All frequencies are in kHz.

AUSTRALIA: Radio Australia is to reactivate the four 250kW transmitters at Darwin by 1982. The Australian Government have announced plans to expand a service to China which will include Chinese-English lessons similar to the very successful Indonesian service which has operated for 20 years. Due to financial cuts Radio Australia's Listeners Club has been disbanded and Club Forum programme will be restyled. Radio Australia will only verify reception reports during one month in each year and this information will be made public in ample time for listener reports.

AUSTRIA: Vienna using 21655kHz to North America 1230-1330GMT.

BANGLADESH: Dacca 21685 heard with English 0445-0515 but sideband from Radio Australia. Also using 15400 and 17890kHz but both these frequencies blocked.

CANADA: Radio Canada is now repeating its popular Africa Mail Bag 2130-2200 Saturday on 11945, 15150, 15325, 17840kHz.

CHILE: Radio Agricultura on 9630kHz opens at 0900GMT and has news 0905GMT. Voice of Chile in their latest schedule shows English at several times including 2100 on 17715, 17790; 2200 15150, 17790, 17800.

ECUADOR: HCJB Quito testing with 100 watts on 26020kHz. Was first heard on 26000 in mid-November peaking around 0700GMT. Frequency change made to avoid interference with VOA Philippines. Station is on the air 24 hours a day and wants reports.

FRANCE: Radio France International Paris heard testing around 0650 on Sunday before opening at 0700 on 25820 and 25900kHz.

GUAM: TWR Agana testing in Indian dialects on 11945 and 15350 1430-1600 GMT. Noted by Alok Gupta, Calcutta.

HUNGARY: Radio Budapest 21525kHz in English 1030-1100GMT to Australia and New Zealand but suffers severe jamming.

JAPAN: NSB Tokyo 9595 with English on Thursday at 0900 including lessons and telephone calls 0915.

KOREA NORTH: Pyongyang 21870 opens in Russian at 0800GMT.

KUWAIT: Radio Kuwait in English on 11665 1800-2100GMT. Also on 9650, 15345. 11665 replaced 11690.

PAKISTAN: English broadcasts include 0230-0245 on 17830, 21590: 1100-1115 17672, 21655: 1700-1930 11675, 15480. English forms part of these programmes.

PHILIPPINES: FEBC Manila using 11890 replacing 11765 0800-1000 to Australia and New Zealand. Veritas Asia heard on 15130 with English 0030GMT.

SWAZILAND: TWR moved to 11740 from 11840kHz and noted with English at 1530.

U.S.A.: WINB Red Lion 15145 noted with English announcements 0030GMT. WYFR 21665 heard closing in French at 1755.

U.S.S.R.: Moscow World Service DX Club now broadcast Saturday 0810: Sunday 1210: Tuesday 1610: Wednesday 2210: Friday 1810.

YUGOSLAVIA: Belgrade using the new frequency of 15300kHz, 1530-1600 in English but best reception on 15240 while 9620 carries the same programme.

..sign off..

with JOHN MAINLAND

CHINA Radio Peking EE:0001-0100 17680, 15520, 15115, 11845, 11696, 8300; 0100-0200 17680, 15520, 15115, 11696, *10865, 8240; 0200-0300 17680, 15600, 15115, 11696, 10865, 8240; 0300-0400 15230, 12055, 11650, *10865, 9460, 8240; 0400-0500 15230, 12055, 11650, 10865, 9460, 8240; 0830-0930 & 0930-1030 17635, *15480, 15125, 12450, 11725, 11600, 9460, 8425, 6995; 1200-1300 9820; 1200-1300 17700, 15300, 9390, 8240, 6520; 1300-1400 17700, 15300, 9390, 8240, 6520; 1400-1500 & 1500-1600 11650, 9860, 6810, 5295; 1600-1700 & 1700-1800 15315, 9860, 6810, 5295; 1800-1900 *8660, 6590; 1930-2030 & 2030-2130 11695, 11455, 9880, *8450, 6955; 2030-2130 & 2130-2230 12450, *8660, 7470, 6860, 6590. *SSB BBC MS

GERMANY (EAST) RBI EE:0100-0145 & 0230-0315 11975, 9730; 0330-0415 11975, 11890, 5955; 0445-0530 11960, 9500; 0645-0730 21465, 17700, 15100; 1200-1245 21540, 21465, 17880, 15115; 1315-1400 17755, 1400-1445 21540, 21465, 17880; 1415-1500 15285, 15240, 11700, 9730; 1530-1615 21465, 17880; 1615-1700 9730, 7185; 1745-1830 7185, 6115, 6080; 1800-1845 21500, 15170, 15145; 1915-2000 7185, 6115, 6080, 1359; 2000-2045 15390, 15140; 2030-2115 7260; 2130-2215 6115, 6080, 1359. BBC MS

IBRA RADIO D-79 sked, via Radio Trans Europe: 1700-1800 9635; 1800-1900 9630; 1900-2100 9670, EE 2030-2100 Thurs & Sat; 2045-2100 Fri & Sun; via Malta 2015-2130 9630 EE 2015-2130 Mon to Fri; 0600-0715 9625 Sat only, Ukrainian 0600-0630, Turkish 0630-0715. via Bob Padula, Australia

ANTARCTICA Contacts in Argentine DX group say that new Argentine stn LRA-36 R.Nac. Arcangel San Gabriel, 6030a, began tests 0100-0200 12/10. Since 20/10 has been on regular sked 0000-0200, which could increase at any time. Power is 1kw and site is Base at Ejercito Esperanza, located at northern tip of Palmer Peninsula across from S. Shetland Is. G. Hauser, NASWA UPDATE

CHINA According to an annex from the Heilongjiang People's Broadcasting Station in Harbin, it broadcasts daily from 2040-0630 and 0830-1530 on 6149, 5950, 4925, 4840, 900 and 621. On Thursdays the first transmission ends at 0510. Programmes are mainly in Standard Chinese but include a broadcast in Korean from 0300-0400.

BBC MS

LATIN NEWS from Buenos Aires DX Club via BC New network Cadena de Radio Mundial has SW outlets "Radio Mundial Tricolor" 4820 and "Radio Mundial 960" on 6070 kHz. T. Ekblom, Uruguay on SW: 6000 Radio Mundo, 6075 Radio Continente 0900-0500, 6140 R. Montecarlo 1100-0330 (to 0400 in Summer), 6155 Radio Carve s/on 0830, 6170 R. Fenix, 9620 SODRE 0900-0200, 11735 R. Oriental 1100-0330 (to 0400 in Summer), SODRE 15275 1kw 0900-0200. SODRE International Sce

*10865, 9460, 8240; 0400-0500 15230, 12055, 2100-2400 on 11885 and 0000-0300 on 9515, both 10kw. WRTVHNL

SURINAM A new station is Radio Apintie, on 4794. This station signs on at 0826 with an hour in Hindi, followed by Dutch at 0930. Jean-Jacques Bloch (SCDX)

SINGAPORE/BBC Since Nov 15, BBC Far East-ern Station, Singapore is using a new frequency, 15320 instead of 15270. 2200 JJ, 2230 Mandarin, 2245-2300 Cantonese. via JSWC

LIBYA/MALTA The Overseas Broadcasting Service of the Socialist People's Libyan Arab Jamahiriyyah has EE 1500-1530 on 7120. Broadcasts are daily. BBC MS

BELGIUM BRT's English programme "Brussels Calling" is now using 17730 instead of 17745 to Africa 1705-1750. 6010 remains in parallel to Europe. SCDX

MONGOLIA Radio Ulan Bator broadcasts in French Mon, Wed and Fri 1945-2015 on 12010 and 15120. Antoine Coletta, France SCDX.

SWEDEN Here is a fq change concerning the SSB relay of Radio Sweden's Home Service valid from Dec 12. The broadcast to Latin America at 1800-2130 is entirely on 15190 instead of switching to 25 mb at 2000 GMT. STA via SCDX

BHUTAN NYAB sked on 4690 and 7040; Sun 0600-0715 Dzongkha; 0715-0800 Nepali; 0800-0900 EE; Wed 1100-1215 Dzongkha; 1300-1400 EE; 1215-1300 Nepali. News in EE 0830. Babul Gupta, SCDX 20/11 in NASWA LN

BULGARIA EE sked wef Oct. 23: to the British Isles 1930-2000 9700, 11720; 2130-2200 9765, 9665; to North America 0000-0100 9705; 0430-0500 9765. via Radio Sofia

INDIA All India Radio partial Home News Sce sked wef Nov. 4 1979: EE 0910-0915 (Sundays) 7290, 9630, 9615, 11765, 9565, 15165, 17835; EE 1200-1202 7140, 9615, 9705, 11735, 11850, 11935, 15250, 17705; EE/Hindi 1300-1310 7140, 9615, 9705, 11735, 11850, 11935, 15180, 15250, 17705; EE 1400-1410, Hindi (slow speed) 1420, EE (slow speed) 1420-1445, Hindi (slow speed) 1445-1510 all on 7140, 9705, 11735, 11850, 15180, 15250, 17705, 9615; Hindi/EE (News from States) 1700-1710 6050, 7140, 9675, 9705, 11725, 11850, 15250, 17865; EE 1800-1805 3905, 6120, 7280, 9510, 11620, 11850, 15370. Times given IST. via JSWC