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WORLD ADMINISTRATIVE RADIO CONFERENCE 1979

While medium wave DXers look forward to November of this year and the introduction of 9kHz spacing for Asia and Australasia on the broadcast band, there will be great significance for the shortwave enthusiast in the outcome of the World Administrative Radio Conference (WARC for short), to be held in Geneva in September next year. The gathering will be under the auspices of the International Telecommunications Union (ITU), with the purpose of revising, where necessary, the International Radio Regulations. The last such revision took place 20 years ago.

Without a doubt the most important task of WARC will be to amend the international frequency allocation table to take account of the changing frequency requirements of the various radio communications services, and to meet any additional frequency requirements likely to arise in these services up to the end of this century. All over the world, government agencies and broadcasting organisations are preparing their submissions. To bring readers up to date with developments to date, here are the BBC's thoughts, as submitted to the British Home Office last year, and reprinted in COMBROAD, journal of the Commonwealth Broadcasting Association:

- 1) The whole of the low frequency band 150kHz-285kHz should be allocated to broadcasting on an exclusive basis. Currently 150-160kHz and 255-285kHz are shared with maritime mobile services and aeronautical radio navigation services.
- 2) A sub-band of 10kHz in the range 415-525kHz, ie immediately below the present MW band, should be allocated to broadcasting services, in order to accommodate a possible traffic information broadcast service. In this connection the BBC is currently engaged in experimental transmissions of a system employing amplitude modulation in time-division-multiplex.
- 3) The medium wave band limits should be adjusted to 526.5kHz to 1606.5kHz.
- 4) The FM Band, currently 87.5-100MHz in the UK, should be extended to the 88-108MHz range. Many other European countries are seeking a similar extension to at least 104MHz.

But of greatest interest are proposals to extend the SW bands. quoting from the BBC proposals -

- 5) "The tropical (SW broadcasting) bands were originally allocated many years ago because of alleged unsuitability of the MF bands due to high levels of atmospheric interference in tropical regions. However, in view of the fact that most of the tropical countries present at the recent LF/MF Broadcasting Conference (Geneva 1975) negotiated numerous MF assignments for domestic use, it appears that the MF (medium wave) band is no longer regarded as unsatisfactory in tropical regions, and thus the claim of tropical broadcasters to exclusive use of (these) HF bands is no longer valid.

..continued on page 10

CONTRIBUTIONS FOR JUNE ISSUE CLOSE AT 1200 NOON, MONDAY 5 JUNE. THAT'S THE QUEEN'S BIRTHDAY HOLIDAY, SO MAKE SURE YOUR NOTES ARE IN THE MAIL A LITTLE EARLIER. DON'T FORGET LADDER TOTALS TOO. LET'S HEAR FROM YOU!

FROM THE BRANCHES

2

SOUTHLAND The April meeting was held at Eddie MacAskill's with 14 present and a report that Merv Branks was now home from hospital. A letter from the National Bank offered space in their branch for display purposes, and this is to be investigated. Arthur Cushen reported that there were over 80 enquiries from the last 'listener' feature, and the local ones are to be contacted. The highlight of the evening was the first of a series of slides in which Arthur Williams traced his recent visit to England and the continent. A pot luck dinner was arranged for the visit of John Campbell and plans are underway for a progressive dinner in July. Competition Results: BOM broadcast Ray Crawford with XEBBC 1470 5kw & KPOI 1040 5kw. SW Over 9 to A. Cushen for TWR Swaziland 9730 30kw; Under 9 to Steven Greenyer La Voz de la Selva 4835 1kw.

NORTH OTAGO The April meeting saw the Listening Post full to overflowing, with junior and senior members, visitor Graham Tee, and a group from the Boys Brigade under the leadership of Dick Lord. These boys are doing a project on Communications. An open day is to be held in St Lukes Hall, Oamaru on Saturday 17 June, with mainly work done by junior members, but seniors will put on a display of pennants and vintage radio. Paul Ormandy gave a good talk on Convention 78 at Tiwai, and also produced a very interesting lot of QSL's including Kenya 4804, WAKR 1590, Sweden 21555 and Radio Sam. The speaker for the next meeting on May 18 will be Mr Deverall, Chief Radio Inspector. The Junior Section are very busy and enthusiastic, and getting some good QSLs back. Best SW was Paul Ramsay's Switzerland. It is good to see them mounting their cards in books etc and generally making a very good job of DXing.

WELLINGTON The April meeting was held on the 30th at the BCNZ transmitting site, Titahi Bay, with 10 present and 4 apologies. Feature of the meeting was a guided tour of the MW and SW transmitters with Tony Marr. Competitions were held over until the next meeting, which will be held at the Quartz Hill Receiving Station on Friday 26 May at 8pm. All-night listening facilities will be available for the keener members. Anyone requiring transport should notify Branch Secretary Paul Edwards, telephone 766-364.

AUCKLAND The April meeting of the branch, originally intended to be a report on Convention 78, turned out to be a tour of the Radio NZ Auckland studios on the 23rd. 17 members turned out for a tour conducted by Barry Hartley, with the recording studios, record library, 1ZB/1ZM/1YC/1YA studios and master control room being viewed. Barry is largely responsible for the activities which take place in the control room, and he was able to inform members that 1ZB's move to 1080kHz was to take place at 5.00am on 1 May, this frequency change having been delayed so that further tests could be made on 1071kHz with KNX Los Angeles 1070kHz. The May meeting will be held on the 28th at 2.00pm, and not on the 21st, as previously intended.

FROM HEADQUARTERS

Following submissions from members Cecil Symmes and Arthur Kindell, the League Countries Committee has Approved 3 new 'radio countries', New Ireland, New Britain and Northern Solomons, all additions to the Pacific region. Updates to the extinct countries listings have also been made. Full details are as follows:

AFRICA Extinct Countries. Add Southern Rhodesia to October 1964
Add Union of South Africa to May 30, 1961

ASIA Extinct Countries. Add Straits Settlements (Penang & Singapore) to 1941

Add Federated Malay States to 1941, replacing -
British Malaya to 1941

CENTRAL AMERICA Extinct Country. Netherlands West Indies (Curacao) to 31 Dec 1948, when it became Neth Antilles

PACIFIC Extinct Country. New Guinea, Territory of. to 1941
Papua to 1941

New Countries. New Ireland BC 40 points SW 18 points

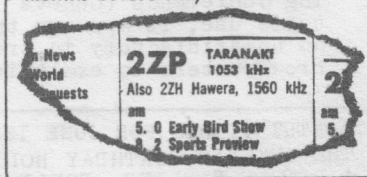
New Britain 40 18

Nth Solomons 40 18

Thanks to Cecil and Arthur for their constructive suggestions.

ON THE BALL?

The Listener magazine is usually a little behind the action when it comes to publishing frequency details, so we were most impressed to see the frequency of 1ZB listed as 1080kHz from the actual change date of 30 April. On the other hand however there's 2ZP New Plymouth which moved from 1370 to 1050kHz on 2 April. In the Listener the change was listed for 22 April onwards, but in their enthusiasm they have listed 2ZP on it's 1053 spot, 7 months before they move there!



BROADCAST DX

por los personals necesarios.

3

Although the number of contributors appears to be down on recent months, it is evident that better conditions are being experienced. To those of you considering erecting longwires and beverages, there is not much time left for North American reception. About now, South American reception could be in full swing, but as every one has commitments to attend to, the Tiwai house has been unattended of recent weeks. Philip Brooks reports a 3rd DX-pedition to the Te Araroa site with the 4th tentatively set down for October. Obviously the catch of the month must go to Robin Chambers with his logging of AFRTS Athens, 1594kHz and listed in WRW as 1Kw. Good work Robin, a just reward for the time spent at the dial. Paul Ormandy has heard News at 0700 in Native tongue on 950kHz with "Aplia" mentioned. It is interesting to note, future plans for Samoan Broadcasting include several 1 Kw repeaters. Radio 2MW has been logged on 972 kHz and with out further information we can only assume this was a test. With the November changes only a few months away there could be quite a few tests and members are reminded to keep checking frequencies. Radio Contact have been back on air from Monday 10th to Saturday 15th April and two loggings from Invercargill have been verified. Further to last month, a short term licence has been granted for Radio Yesterday with frequency, power and sked details as previously published. Finally, "The Broadcasting Tribunal has approved a sound radio warrant for Mr Gordon Dryden's proposed Radio Manukau station." These headlines appeared all around New Zealand on the 29th of last month. The expected frequency is the recently vacated 1590 spot with 5,000 watt 24 hour operation. FLASH 1ZB now on 1080 kHz.

Now a dip into the MAILBAG and first out is

John Allchin Auckland, with reports to 3CS, 2ZP 1050, 4IP, 4MK, 4RO, 7EX 8HA. QSLs have arrived from KPNC, 2ZP 1050, 7ZL, 3CS, KOOL, KTNQ, KUAI, KOMA, KAIM, CKWX, KGU, KPOI, 1XC 1030, KGIL, and 4ZA-E. Don't forget photo, hi. S.

Ray Crawford Invercargill has logged a lone one Radio Mundial 1370. Veries are 4ZJ, JOAR, KGB, KPOI 1040, XEBEC 1470, & Gabon 1554. Nice one Ray.

Stuart Forsyth Christchurch/Auckland has them back from CKWX, KTNQ & R Sam. Reports are out to 3YC, 4YC, 4YA, and 4IP. Tnx Stuart.

Philip Brooks Wanganui reports 2ZP, 2GN, 2LT, 3CV, 4IP, 5RM, 2RG, R Contact and 3MA. From Te Araroa, ZNS1 1540, WVOJ 1320, Tuvalu 580, KRLA, KALI, & KDIA. QSLs are in from KMJ, CKDA, CKWX 4ZA-E, 5AA, 2ZP 1050, VSZ1 844, KBOI, 3CV and ZL1XC 1450.

Ash Nallawalla Dunedin has veries in from 4ZA-E, KEII, AIR Jullundur 710 and KIOE. wet no logs?

Arthur Cushen Invercargill has one out to 1ZT mobile but because of a mix up the station wasn't mobile at all & certainly not with 1 Kw. Bad luck. Veried are 4ZA-E and R Contact 1450.

Robin Chambers Opunake has reports to 2ZW 3YB, 1XI, 3WM, 2ZP, 2ZN, 4WK, 2LF, Bulgaria 827, 2LT, Qatar 674, Biak 1044, DXLL, Sabah 750, Hyderabad 740, 4LM, KFERC, 1Z0, 4PH, Genova 1578, AFRTS Athens 1594 and 1XC. Veries are in from 2ZW, DWBL, 1XC, 2ZP, 4WK, 7SH, 4ZJ, and KVEN. Tnx Robin.

Paul Ormond Oamaru has convention logs as Reloj 1110, Paradise 1265, Austria 1475 Kosice 1520, KJUU, KWAL 620, 4ZA-E, HJLK 1230, Sennar 1295. From home, 1XC, KFERC, 2ZP, Samoa 950 tentative, 5LN, 7FG, JOUO Sabah 665, Pakistan 585, 2TR and WICY. QSLs have arrived from Malaysia 1475, 1055, 885 KSL, WAKR, 1XC 1030 and 4ZJ. Hi.

Bryan Clark Wellington has QSLed WOW 590, 4ZJ, 3SR, 3MA 3TR, 4AK, 4ZA-F, Kuala Lumpur 885, Kosice 1520. Reports are away to CEB4 Lisbon 1594, KFERC 1370, and CBL38 Colo Colo 1380. Tnx Bryan.

Don Reed Christchurch has a lone log in 4ZA-E. Welcome back to the pages Don.

Sutton Burtenshaw Invercargill has reports to 2ZP 1050, R Contact 1450. The postie has been with Surabaya 585, XEBEC 1470, Lille 1376, CFGO 1440, Contact 1450, 2ZP 1050, CHAT 1270. chat was welcome.

Craig Strathern Timaru one in from 4ZA-E.

David Feldon Rotorua one out & in is Contact

WBBM NEWSRAD  78
Those Newspeople

MAILBAG Continued.

Sam Dellit Queensland. with a mass of reports and varies, has reports out to the following from Matata, KWIL, KCRL, WHAS, 1XX Murupara, WSB, KARN, WCBS, KTRH, WIBW, KRIO, WCLV, WPLO, KLIF, WLAC, KFJZ. from Mt Egmont, KLTV, WBAP, KOOL, and Coolum Beach, KGAR, KBBX, CFAX, KDWN, KMWX, KBDF, KKA, CHWK, KRED, CFOK, KURY, KIDD, KONA, KGW, KATA, KBBR, KPAY, KRLA, KGYN, KPOD, CKX, KYAL, WREN, KRVN, KRNR, KSAL, KGAL, KSO, and not suprisingly has many QSLs from, CFOK, CHWK, CFAX, WLS, KTAR, KRAK, KCBS, KBBR, KONA, KWKH, KTOM, KVOO, KRED, KMWX, KMEN, KURY, KRLD, KTNQ, KRLA, WBAP, WOAI, WWL, WSM, KTRH, WIBW, WLW, XBRK, KGIL, WPLO, WREN, WOW, KILD, WHY, SAR, KJR, WBBM, KWIL, WLAC, WSB, KLIF, KARN, KUHL, CKX, and KLVI, first from southern hemisphere in over ten years, a mighty effort Sam. After typing, noticed some of these were in last month Sam!

4 Paul Rawdon Wellington has a lone QSL from 4ZJ. Mohammad to the mountain?

Bob Homewood Auckland. Reports away to, 2KM, 2GN, 1ZH, 1ZK, 3ZM, 2ZC, 2ZP, 3XA, 4XO, KEEN, Fiji 710, Noumea 670, ZK1ZC. QSLed are 2ZM, 2ZC, 3XA, 2ZP and Windy, thanks for news on Manakau.

Leigh Morris Palmerston North. has logged ZL1XC, at home and at Te ARAROA, KPMC, KDIA, KALI, KEEN, KSL, KVEN, KRLA, ZNS1, and Paradise relogged. QSLs in from, 4ZJ, 4ZA/E ZL1XC, KIKI, KMVI, KAIM, and KOHO, glad you heard 4ZA/E.

Convention special from 4ZA/E had a power of 500 watts.. per QSL. SG.

Note to Jack Searle, it is a well known fact that Engineers have been found to disregard correspondence to previous Engineeres at their station, this is an anomaly that many B.C. DXers experience.

BITS AND PIECES.

UNITED ARAB EMIRATES.

The Qatar News Agency, QNA, has reported that the transmitter at Om el Quein began broadcasting on the 2 March after 2 months of tests. This 20kw transmitter broadcasts on 845 khz for 9 hours daily. The U.A.E. now have 4 radio stations. Abu Dhabi, Dubai, Ras al Khaimah and Om el Quein. Radio Sharjah closed at the end of 1977 and Abu Dhabi took over its frequency. BBC-MS.

TUNISIA. The 1570 outlet is reported to be at Monastir. -Sunspot x 1582.

EGYPT. New stations on air are Alexandria 1169 1 kw, and Abul Zahal 1340 100 kw.



ALL INDIA RADIO. EXTERNAL SERVICE.

1130 khz 1215-1315 Cantonese, Kuoyu.
1315-1400 Tibetan.
1400-1440 Nepali.
2145-2245 Cantonese, Kuoyu.
2300-0000 Hindi.
0045-0115 Burmese.
1070 khz 0130-0430 Urdu.
0830-1130 Urdu.
1200-1300 Sinhali.
1300-1330 Balachi.
1330-1430 Dari.
1430-1545 Pushtu.

1600-1730 Persian.
1730-1930 Arabic.
710 khz 0130-0430 Urdu.
0830-1130 "
1430-1830 "
1330-1430 Punjabi.
590 khz 0130-0215 Nepali.
0215-0230 Tibetan.

B.C.

Ray Babbage Wellington has reports to Radio Sam and KRLD. Varies in from Radio I 1330, 2ST 1000 (16 mths) and India 1130 (12 months).

BROADCAST TRAIL

5

EVENING.

- 620 KWAL Logged at Convention,
0724. P.O.
- 775/6 SS station, time ann,
and pip every 10 secs, 0656.
- 790 R.Mitre strong 0615-0645.
- 850 KICY ending RR at 0945, CBS
news at 1000. P.O.
- 950 Samoa? news at 0700, new freq,
or replacement for 1050.P.O.
- 972 2MW here 0850, 7/4 8/4.
- 1030 HJER fair 0615-0645 4/4.
- 1034 CSB2 fair 0605-0625.
- 1040 SS over 4ZB 0705 2/4.
- 1044 Biak good 0955-1015 3/4.
- 1170 4GC thru 2CH on 9/4 difficult.
- 1300 SS here ann, R.Palabra 0655.
- 1370 SS good 0642 R.Ch.
R.Mundial 0545, R.C.
KFRO good 0605-0607 5/4.
KEEN good 0600 news R.C. R.Ch.
B.C.
- 1380 CB138 good 0645.
- 1450 ZL1XC at good level.
- 1590 SS good peaks 0640-0700,
possibly XEVOZ.
- 1600 YVRJ poor 0600.



MORNING.

- 557 Quazvin fair 1850.
- 584 AA here good 1840 31/3.
- 610 KUAM strong 1830.
- 611 RR Good 1830.
- 647 AA Riyadh ? good 1820.
- 674 Qatar fair-good 1745 -1815 3/4.
- 683 Belgrade good 1820 5/4.
- 737 Yavneh AA good 1835.
- 740 Hyderabad good 1622-1645.
- 750 Tawau Sabah good 1535.
- 755 Yemen good 1820.
- 764 Qatar peaking 1745-1802.
- 770 Iran poor 1705.
- 773 Cairo good regular.
- 777 Zahedan // 770 1705.
- 782 Syria poor 1835.
- 790 Pakistan? weak pop songs 1800.
- 791 RR good 1835 21/4.
- 800 Jordain in AA under RR 1805.
- 827 Bulgaria fair 1835.
- 885 Damman fair 1850.
- 917 Iran peaking 1828 // 770, 777.
- 1016 Turkey poor 1820.
- 1035 Oman good 1835.
- 1047 DXLL Strong 1458-1515.
- 1088 RR good 1810-1830.
- 1090 CC Excellent 1850.
- 1345 Kuwait fair AA 1800.
- 1370 4LM strong sign on 1900.

MORNING Continued.

- 1376 RR good with int, signal 1815
- 1394 RR kayak int, sig. 1930 fair.
- 1412 Masirah EE news good 1815.
- 1457 Rumania good 1835 5/4.
- 1493 RR good ? 1915 4/3.
- 1511 R.B.I fair-weak 1815.
- 1529 Vatican Fair -good 1815.
- 1562 Beromunster good 1815.
- 1567 Iran? good 1835-40.
- 1578 Genoa strong 1810-1840.
- 1594 A.F.R.S. ATHENS fair 1840-1845
with American Baseball results
10/4.
Hungary with Fem. Ann mixed one
or two others, no sign of APBS 11/4.

Credits. P.Ormandy. R.Crawford. all
others Robin Chambers , Opunake.

BEST OF THE MONTH

SENIOR.

Paul Ormandy.
WAKR, Ohio, 1590 kHz, 5kw, 141 points.

JUNIOR.

Philip Brooks.
KMJ, California, 580 kHz, 5 kw, 104 pts.

Trail items missed.

- 1430 KALI good in SS 0630.
- 1519½ Latin netting with N.Z. 0530 23/4.
- 1594 Lisbon briefly 0600 7/4.
All B.Clark.

STATION NEWS Just to hand.

ANDORRA/MONACO. The French Government
is preparing to authorise Sud Radio
and Radio Monte Carlo to increase their
power considerably. WWDXC.

POLAND. The new 158 metre aerial at
Korzecin near Katowice has been tested
There are two new transmitters each of
750 kw, built by the Czech Telsa Company,
giving an output 25 times more powerful
than the previous station. From Nov.78
Katowice will operate on 1080 kHz.

TUNISIA. An unknown Tunisian station
has been heard on 1582 kHz since 8/77.
EBU via WWDXC.

****DON'T FORGET 2YD WELLINGTON 1260kHz 6pm-10pm ON
5,6,10,11,12,13,17,18,19 AND 20 MAY - RADIO YESTERDAY.**



CAN-AM REPORT

ASIAN NEWS



Azad Kashmir Radio

MUZAFFARABAD

ARGENTINA..Radio del Plata, 1030 is Sra. Maria del Carmen Soffiotti.

Radio Splendid Rosario 1230 is now 25kW. The station operates 0900-0400. The Director is Rodolfo E. Perez.

COLOMBIA..Radio Super, Cali verie signer is Fernando Segura. Frequencies 1200/6120.

Radio Uno 660 and Radio El Sol 980 are now RCN ex TODELAR. TODELAR have purchased LV del Valle 1140. Radio Sonar, Ocana is on 1260/4915 ex 1100.

CUBA..Radio Manbi, Santiago de Cuba is reported on 1057 having drifted from 1040.

PARAGUAY..ZP70 Radio Primero de Marzo on 780 broadcasts 24 hours. This station is to go to 50 or 100 kW.

ST. LUCIA..Radio Caribbean 840 is ID'ing as Radio Calypso and hopes to have a second transmitter shortly so they can broadcast full-time programs in EE & FF.

VENEZUELA..Radio Fe & Alegria, Caracas is new on 1390.

YVIC R. Bonita, Guatire, on 1520 is new.

SUNSPOT

CANADA..CKO Montreal, 1470 wants 50kW for "Canada's All News Radio".

USA..CBS Radio Network hourly News Correspondents; Rita Sands, Doug Poling, David Jackson, Christopher Glenn, Joseph Danbo, Charles Osgoog, Dallas Townsend, Richard C. Hottellet, Reid Collins, Douglas Edwards, Stephani Shelton, Jerry Landay, Morton Dean, Neil Strawser, Steve Young, Gary Shephard, Bob Schieffer, Jim Kilpatrick, Lee Thornton, George Herman, Ed Bradley.

SUNSPOT

GERMANY West..AFN Berlin on 1106 ex 935

MWN

GERMANY East..Bernburg on 1430 ex 1385

MWN

GREAT BRITAIN..Under provisions of the Geneva frequency plan Start Point 1052 will be closed down in 1979. SUNSPOT

NORWAY..The building of a new 1200kW tx at Kvisøy in Rogaland to replace the old Stavanger 1313 has been approved. Some work has been started and it will take approx 3 years to complete. SUNSPOT

6
AZAD KASHMIR..is on 1512kHz with 10kW per QSL received by Adrian Peterson. The frequency has been measured as 1511.4 by Victor Goonetilleke. Interference was from Khaipur, Pakistan, AIR Amravati, and DDR 1511. The Azad Kashmir anthem was heard at 1814 UADX.

INDIA..Verie signer for AIR Cuddapah 900 is G. Krishnamurtha. Cuttack 970 ex 965, Mangalor 1080 with 10kW is new, Calicut B 1095 ex 1090, Allahabad A 1150 ex 950, Ambikapur 1260 10kW is new, Mangalore 1470 1kW is new, Augarangabad 1520 20kW is new.

SUNSPOT

IRAN..There is a disturbing shortage of electricity in Tehran. TV and radio must close down earlier in the evening. Some stations will be off the air for several hours during the day and it is reported that many industries have curtailed production up to 50%.

SUNSPOT

Ahwaz 1386 ex 1390, Kerman 1062 and Jiroft 917 are // with 1188. MWN Yazad 820 and Marivan 945 are 20kW.

SWN via SRK

IRAQ..Kirkuk is new on 629 with 20kW.

SWN via SRK

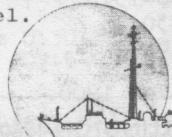
PHILIPPINES..FEBC seeks to increase transmitter power of DWAS 1390 at Daraga in the Bicol region from 1kW to 5kW. DXAS Jolo 1430 is to be relocated in Zamboanga City. FEBC DYLA 1555 veried with a detailed letter from Miss Carmen P. Alzona, Secretary to Program Consultant.

Hank Wilkinson

DWWW 620 v/s Johny R. Alavazo, DYRC 900 v/s Miss Fe Avancena, Secretary. DZSA 1230 v/s Raul N. Choa. SUNSPOT

TURKEY..Voice of Cyprus at Anamur is now heard on 755 with 20kW. SUNSPOT

VOICE OF PEACE has increased power to 80kW on 1538. SW // of 6242. The address is P.O. Box 4399, Tel Aviv, Israel. WDXC



This is the Voice of Peace Broadcasting from Somewhere in the Mediterranean on 1540 KCS 24 hours a day

THE VOICE OF PEACE

Variety and local identity; these are the twin themes of ILR. The ILR companies broadcast over 2000 hours of locally originated programming each week, all of it special to each station and each area. The following takes a broad look at the main subject areas and some of the common features.

MUSIC---Music is a major part of ILR entertainment. The stations set out to provide the companionship of music-based programming and to serve a wide range of musical interests and tastes. Popular contemporary music provides common ground for local listeners. Although its growth and influence is international, ILR, by playing the best of such music and selecting it to suit local interests, gives local expression to a universal taste. The stations involve local listeners with their choice but also encourage their audience to sample and enjoy new types of music. In general, the popular music played aims to be the best of its kind; and the music-makers as well as the listeners welcome an alternative outlet for broadcast music. This type of entertainment, where records and other music are interlinked with plenty of news, information, humour and discussion, is shown to be something which the majority of people like, value and listen to.

As well as the mixed musical programming there is also a wide range of specialist music programs. These cover classical music and folk, 'progressive' pop and blues, jazz, reggae and country music and the various and different facets of musical interest. Local specialties are included, be they brass band music in Sheffield or Welsh choirs in Swansea. Although these are still early days, there have been some notable broadcasts of live music, including full-scale orchestral concerts, early Italian music, pop groups, soloists and small bands and more.

NEWS---The ILR stations gather news in two ways; they have their own newsrooms and journalists, who collect and broadcast local news; and they get national and international news from a company called Independent Radio News (IRN) which is part of the London Broadcasting Company (LBC), the company holding the franchise for the London news and information service.

IRN is a completely new source of news for radio listeners. It has its own staff and correspondents in the U.K. and around the world, and it prepares news bulletins and features - and a full 'agency style' news service - for ILR 24 hours a day. Each station receives a teleprinter 'feed' from IRN and an 'audio' service, and it can broadcast the IRN bulletin live or use it to build up its own news programming. In this way, every ILR station can have interviews from Saigon, Melbourne, Ulster or Westminster. In addition, stories from each ILR area can be 'fed' to the other stations through IRN.

SPECIAL INTEREST PROGRAMS---The local arts and entertainment scene enjoys on ILR stations the type of wide but popylar coverage which can bring local theatre, art gallery and concert hall right into the homes of people in the area. As well as regular arts features, stations can talk in detail with actors and producers, painters and poets, established or eccentric.

Sport is one of the principal ways in which people express their local identity. So ILR is there at the local football grounds, be they First Division or Sunday league. But soccer is not the only sport and across the whole range of sports from lacrosse to gliding, from water polo to Highland Games, from cricket to rugby union or rugby league, enthusiasts can hear results, news and comment from a local angle on ILR.

ILR program planners do not believe that education can only happen in a classroom. Helping local people to a greater awareness of the history of their area, showing them how local government works, advising them on their legal rights, are some examples of the useful education which is included through the day's ILR output, not just in a particular program. There are some special programs - would you like to learn Welsh with Swansea Sound, for example? - but the educative part of ILR goes on all the time in differing ways.

The religious content of ILR also varies - as all ILR programs vary - from station to station. Some broadcast regular, formal religious programs, some short talks; and 'religion' will encompass the faiths of the people in each area. ILR's programming goes out into the community as well, with counselling on-air often followed up by clubs and social welfare helpers in the transmission area.

Continued...



2MO 2MO 2M
0 2MO 2MO

In a QSL letter to Phil Brooks last year, G.S. Arklay, Manager of 2MO Gunnedah Pty Ltd gave the following information about the station:

2MO operates at 2 kilowatts on a frequency of 1080kHz, 278 metres. The station was licensed on 16 January 1930, with Licence No.4 for Australia. The official opening and commencement of regular transmission was on 16 June 1930.

The present studios are situated in Rodney Street, Gunnedah. The whole building is air conditioned and has two studios and a control room. Radio 2MO also operates a studio at Narrabri, which is 60 miles NNW of Gunnedah. Broadcasts are made from this studio Monday to Friday, from 2 till 5pm.

There are two transmitters - one at the studio, which runs on an auxiliary diesel in case of power failure; it also supplies power to the studios - and the main on-air transmitter, a BTM-2J containing solid state rectifiers, situated on the Oxley Highway 3 miles from the 2MO studios. Both transmitters are remotely operated from the studio control room. Most of the studio on-air presentation is remotely controlled, and the studio/transmitter equipment is mainly RME custom built.

2MO is now automated and broadcast sessions are on automation from 10am to 11pm Monday to Friday, with breaks for news inserts. At the time of writing, the automation unit was unique, being the only one of it's kind at present in Australia. The computer section (the memory bank) is by Control Design Corporation, and the tape recorders by Revox. The cartridge machines (the time announcer unit and instant access) were supplied by Consolidated Electronics.

The address for reception reports is 2MO Gunnedah Pty Ltd, Box 62, PO, Gunnedah 2380, Australia.

3SR 3SR 3SR
R 3SR 3SR 3S

The following information on Radio 3SR was obtained on the visit to the station by League members last year during the DXcursion 77 visit to Victoria, South Australia, Northern Territory and New South Wales:

Radio 3SR is owned and operated by Associated Broadcasting Services Ltd, which also operates the following stations in Victoria: 3UL Central Gippsland 530 and 3YB Warrnambool 880kHz. The station operates on 1260kHz with an aerial power of 2000 watts non-directional.

3SR began life as Radio 3WR at Wangaratta in January 1931. In January 1935, 3WR transferred operation to Shepparton, and a year later took the callsign 3SR, with studios in Fraser Street and transmitter at Congupna. The present Wyndham street studios were occupied in 1955 and now comprise 2 identical 'air' studios and a smaller 'talks' studio equipped with modern solid state equipment together with record library, production, technical & other offices.

The present staff comprises some 20 persons who include announcers, technicians, copywriters, sales and office staff. Transmission hours average from 5am to 11.30pm each day. As one of Australia's 120 commercial radio stations, 3SR is self supporting by sales of advertising, which is either prepared and produced by commercial agencies, or by 3SR's own scriptwriting and production staff.

The transmitters of 3SR are located some 12km east of Shepparton on the Old Dookie Road, where there are 2 identical AWA type BTM-2 transmitters, remotely controlled by landline from the studio. Each transmitter is used on alternate days to provide reliability; an alternate source of mains supply is also available for this reason. The transmitting aerial is a 130 metre high, guyed triangular steel mast. Largely due to the ideal and flat country in the Goulburn Valley, 3SR signals are reliably received within a radius of 100km or greater. Under ideal conditions, reports of reception have been received from as far distant as New Zealand, Western Australia and New Guinea.

TYPEFACE Ye Chief Ed has a 'new' electric typewriter, and is still running it in! We hope that the new typeface will improve the end results for you, the reader. Apologies for any teething troubles!



MOSCOW - ER, HONIARA - CALLING

9

The man at the Australian Security Intelligence Organisation HQ put down his earphones and gave his radio monitor a thump. "Darn thing must be playing up", he mumbled to himself. He had been told to monitor the Solomon Islands Broadcasting Corporation and all he was getting was news from Radio Moscow.

"Still, better to be sure than sorry", he said to himself as he picked up the telephone and dialled the Security and Intelligence Service in Wellington. Perhaps their monitor was working properly and they'd picked up the news programme from Honiara. Perhaps they'd whizz over a tape to prevent the boss from suspecting that he'd been sleeping on the job.

But the ASIO man blanched. Wellington had been getting Radio Moscow too. It was coming from SIBC. What had happened - a pro-Soviet coup out there in our Pacific Ocean? He ran down the corridor shouting "The Russians are coming!"

Well, anyway, if an ASIO man had been listening to SIBC one night in December he would have heard Honiara's radio station broadcasting news from Moscow and sharing with listeners a few thoughts from Mr Brezhnev as well. But it wasn't due to a coup. Simply a tuning mistake. SIBC normally takes its international news broadcast from Radio Australia, but someone slipped up on the tuning and the news came from Radio Moscow's English-language shortwave broadcast instead. It took about 10 minutes before someone woke up that something was amiss. It was when the female announcer launched into a very long piece on a very long speech Mr Brezhnev had given recently, that it became clear this wasn't the ABC.

Then a few days later people listening to the SIBC for the relay of Radio Australia's international news heard a cherry voice with a strong American accent say: "Hullo Africans, welcome to African Safari". The gremlins had been at it again or perhaps there had been a coup at SIBC on behalf of the Voice of America, overthrowing whoever it was had turned the dial to Radio Moscow.

VOICE OF AMERICA

Pacific Islands Monthly 2/78 via Peter Morris

NEW V.O.A PROGRAMME "WEEKEND"

The Voice of America, on Saturday, May 13, will begin broadcasting a new weekly programme worldwide in English. Entitled "Weekend," it represents a substantial departure from much of VOA's previous programming.

Perhaps the most noticeable difference between "Weekend" and its predecessors will not be what but how. News and cultural events will be covered, but with some differences. To supplement straight reports on substantive matters from correspondents VOA plans to have some "live" conversations between the reporters and its Washington host to provide local colour and a sense of immediacy. The programme will be timely, fast-paced and informal, with an emphasis on what is happening around the world and how it affects people.

For instance, if President Carter is overseas, VOA might add to its regular news coverage a conversation with a member of the President's party on some "human aspect" of the trip that is usually not called for in traditional coverage.

VOA also plans to have music that's being heard that weekend -- the Number One song on the charts may be juxtaposed with a report on a Metropolitan Opera premiere, or a visit to the Grand Old Opry in Nashville. Answers to listeners' questions and reviews of books and films will be interspersed with background and expansion pieces on topics in the news. Five minutes of news (exclusive of correspondent reports) will be broadcast shortly after the programme begins. Midway through the hour there will be a sports report as well as a news summary.

"Weekend" will bring a new sound to the VOA english weekend programming, a new approach to fulfilling its new International Communication Agency charter responsibilities. It is designed to be as listenable as possible while at the same time increasing VOA's coverage of important events.

The programme will be heard in East Asia and the Pacific at 1300 GMT.

Press Release from American Embassy, Wellington 12.4.78

"The short-to-medium distance HF broadcasting services operated by the BBC and other broadcasters in the European area require frequencies below 6MHz for reliable propagation during winter night-time conditions at all phases of the sunspot cycle. In order to overcome these propagation problems it is proposed that: THE BANDS 4750-4995KHZ AND 5005-5060KHZ BE ALLOCATED TO THE BROADCASTING SERVICE ON A WORLD-WIDE BASIS, SHARED, IF NECESSARY, WITH EXISTING SERVICES.

- 6) "The HF (International SW) broadcasting bands were already overcrowded in 1959 when the bands were last allocated. Since then, congestion has increased and is expected to increase still further; at present during certain hours of the day the bands are overloaded by a factor of 3 or more. In an effort to overcome the interference problem many broadcasters, including the BBC, are operating on frequencies outside but adjacent to allocated broadcasting bands, a situation which can be tolerated only as long as harmful interference is not caused to the rightful occupants.

"The BBC has endeavoured to make the most effective use of its frequency assignments by synchronising (up to 5) transmissions to different areas on the same frequency, while coordination with other Western broadcasters has helped to alleviate some of the more serious mutual interference problems.

"An increase in its present authorised complement of out-of-band channels usable at overseas relay stations as well as in the UK would go some way towards easing the BBC's own problems but any solution to the general interference problem, which takes into account worldwide interests, must derive from a reallocation of the HF spectrum. The alternative is a continuation of the present power race and an increase in unregulated out-of-band usage, amounting to a de facto expansion of the broadcast bands.

"The problem of the long-standing sharing of the band 7100-7300kHz between the amateur service in the Americas and the broadcasting service in the rest of the world, to the satisfaction of neither, needs to be resolved by re-allocation.

"It is thought that with the rapid development of cable networks and satellite communications, some of the major non-broadcasting services are making less use of the HF spectrum than hitherto, and that spectrum space is likely to become available for re-allocation.

"It is proposed therefore that the HF broadcasting allocations be substantially increased to reduce the present overloading. EACH BROADCASTING BAND BELOW 20MHZ NEEDS TO BE APPROXIMATELY DOUBLED IN SIZE AND AN ADDITIONAL BAND BETWEEN 11975 AND 15100KHZ IS NEEDED TO ELIMINATE THE PRESENT LARGE FREQUENCY DIFFERENCE BETWEEN THESE BANDS. via Worldwide DX Club 1/78

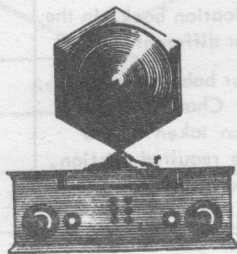
For another view of the evolving situation we quote the 4/78 issue of FRENDX:

"At a meeting in Vienna last February a group of 14 broadcasting and 4 PTT organisations met to seek a common position for WARC-79. The following international SW bands were proposed: 3900-4060kHz, 4750-4995 and 5005-5060kHz, 5740-6200kHz, 7100-7500kHz, 9400-9900kHz, 11500-12025kHz, 13600-14000kHz, 15100-15700, 17500-17900kHz and 21450-21850kHz. Only the 11 metre band would remain unchanged. From the DXers point of view, the main points are the elimination of hams from the 41 and 75 metre bands, the introduction of a new 22 metre band, and the allocation of international broadcasting to the 60 metre band.

An FCC representative has stated that investigations have established that many tropical countries use the tropical bands not for broadcasting but for fixed use. Second, most tropical band broadcast transmitters are used for studio-to-transmitter links. However, as any keen DXer knows, or can see by referring to the WRTVH, many tropical countries have broadcast transmitters only on the tropical bands. It seems the Europeans, Americans and Canadians broadcasters support such a 'sharing' of 60 metres.

Larry Magne of NASWA asks: "Must the 60 metre tropical band as we know it be abolished? Will this band too be buried under legions of 250kw transmitters?"

EQUIPMENT REVIEW



DRAKE The R.L. Drake Company recently announced that the SPR4 and SSR1 models are now out of production, and the Drake range is now all-amateur radio. The FS-4 is also being phased out. However a new receiver is expected in 8-10 months, according to Larry E. Bell, Sales Mgr of the Amateur Division of Drake. ASWIC

YAESU have recently introduced a new version of their very popular FRG-7. The FRG-7000 general coverage communications receiver has specifications almost identical to the FRG-7, except that frequency coverage is 250kHz to 29.9MHz, with large-digit LED display giving digital read-out to 1kHz. Also built-in is a digital clock, settable to local plus GMT time. The clock also has timer controls,

for use with tape recorders etc. NZ price is expected to be \$623, compared with the FRG-7's current tag of \$360. In the USA suggested retail price is around \$500. The specifications for sensitivity, selectivity and stability are the same as quoted for the FRG-7, as is the weight. Dimensions of the FRG-7000 are 360mm wide x 125mm high x 295mm deep. Kirk McMillan, Leigh Morris, Ralph Sanserino.



NATIONAL PANASONIC's DR48 or RF-4800 (as illustrated in the 1978 WRTVH pages 26, 27 and page 7 of the "Listen to the World Supplement" supplement) was recently displayed at an Auckland Branch meeting, courtesy of local Duty Free company Miles & Carlaw. Here are Bryan Marsh's comments on this new communications receiver:

The DR48 is a large table model receiver almost the same size as an Eddystone, but less than half the weight (8kg without batteries). It has good looks but rather small dials, and consequently a difficult-to-read MW scale, whereas the SW scale is adequate because of the digital readout.

Medium wave performance was not up to expectations in a set of this price range, and the DR22 model was way ahead. Image rejection was poor, and when an external antenna was connected the set overloaded with stations popping up in several places. The loop antenna fitted to the rear panel folded out but could only be rotated through 90°. Although effective, it's use would be limited. When a 3' frame loop antenna was connected to the 75 ohm input, Radio Hauraki's image could be nulled to listen to 2YA on 570kHz. The 20kHz spaced graduations on the MW scale were much too close for an accurate readout. The SW range of 1.6 to 3.0MHz uses the same dial and tuning set-up, again with no digital frequency readout, and coupled with poor performance, would not interest a serious listener. The FM and LW bands on the same dial were not tested.

On the other hand, the 7 shortwave bands covering 3.0 to 27.5MHz with digital readout to 1kHz were a pleasure to use. The 2-speed tuning, operated by pulling out on the large size knob for super-slow use, meant that the bands could be scanned with ease. Sensitivity was good, but selectivity, even in the narrow band position, gave splash from nearby strong signals 10kHz away. The alignment of these bands was excellent, in that one could dial up a wanted frequency and be spot on. An example - 5603kHz with upper sideband in the SSB mode, San Francisco HFRT circuit came in, using only a short antenna.

For normal use an inverted L antenna of 50' is recommended, as anything longer overloaded the receiver. An inverted V dipole was tried - while giving quieter performance, it still overloaded the circuit. The digital readout showed a slight drift down in frequency on the set tested. The antenna trim control could peak up a signal, but the signal was audible at all points on it's 180° rotation.

The DR48's audio was very good, with bass and treble controls for pleasant listening. When a set of 8 ohm headphones was used there was a slight hum audible, increasing to an annoying level when the dial lights were in use. PTO

A good procedure for reporting a station gives one a better chance of getting that verification back. In the diagrammatic presentation opposite, we look at the reporting of a radio station in a rather different way.

The Flow Chart is a tool of industry and commerce and here we have applied it to our hobby. It tells, in a simple visual form, what would take some time to express in writing. The Flow Chart is self-explanatory. Decisions are made at the DECISION diamonds and some form of action taken at the ACTION squares. Follow the chart, making the necessary decisions and taking the required action, and your standard of reporting will improve. Consequently your reply percentage will increase.
Good DXing.

Barry Williams

WORLD ADMINISTRATIVE RADIO CONFERENCE (concluding from page 10)

DXers have a simple but potentially effective recourse to the proposal that the 60 metre tropical band be "shared", ie taken over by international broadcasting. When reporting reception to any tropical band broadcaster which uses the 60 metre band, DXers should express dismay that reception may not be possible after 1979, as a result of decisions reached at the next WARC conference. The nations that most benefit from tropical broadcasting have a majority of votes in the ITU, but it is most important that the tropical band broadcasters make their respective governments aware of the possible situation.

Editorial note: If we get sufficient feedback from members, a written submission from the League to the appropriate people, presumably the ICNZ, will be considered. Already some overseas DX clubs have formally supported extending of the international SW bands. Douglas Doull of Auckland feels that the 41, 31, 19 and 16 metre bands could well be extended, but sees problems in that some sets will not have coverage of the band extensions, and redesign by manufacturers will be necessary. Deadline for your comments 30 June 1978

EQUIPMENT REVIEW Continuing Bryan Marsh's review of the DR-48

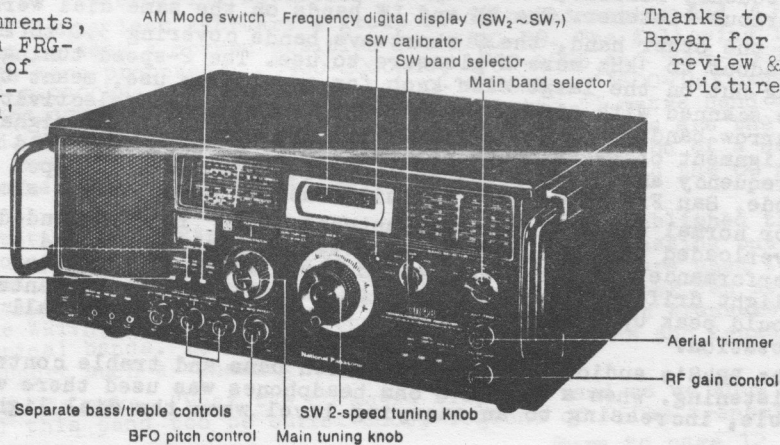
SSB reception with the good pitch control was acceptable. The noise limiter could cut car ignition noise by half. The recessed SW calibrator was not used after initial setting of the digital display. Battery consumption was tested with a variable 12 volt supply, and gave undistorted reception down to 7 volts, corresponding to the lower edge of the black line on the tuning meter. At zero volume draw was 60ma; with digital display on - 155ma, but with dial lights on, the meter registered 230ma. A medium listening level without dial lights or display drew 75ma.

Overall, an interesting receiver which I think could be improved by a better MW band, increased selectivity and digital readout for all bands.

COMING UP - more comments, favourable, on Yaesu FRG-7 receiver; details of a commercially available 'active antenna'

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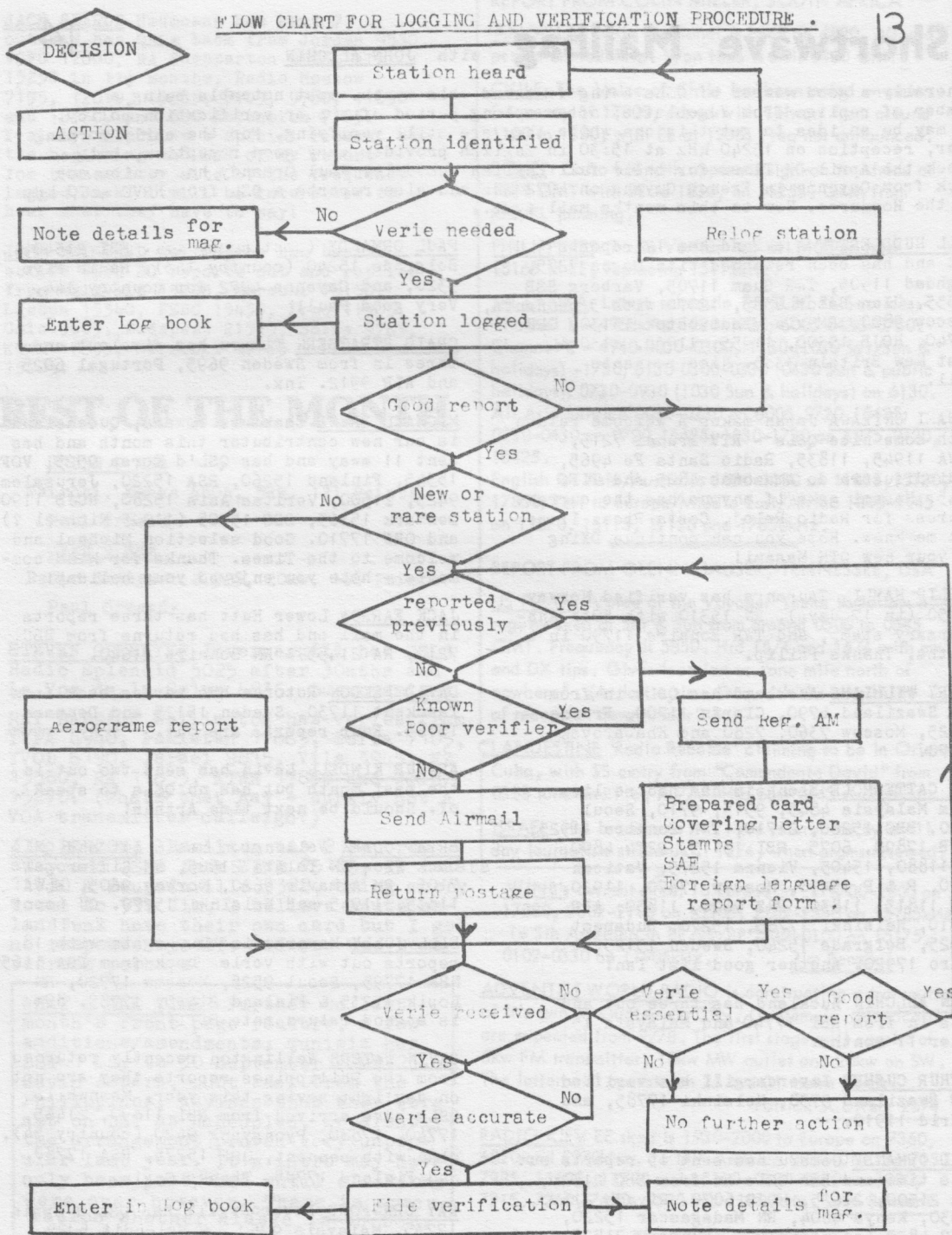
Thanks to Bryan for review & picture.



AUSTRIA's DX prgm, SW Panorama will be aired Sunday 0300 from 7/5 on 6155 or 9770kHz. D.Doull

FLOW CHART FOR LOGGING AND VERIFICATION PROCEDURE .

13



Shortwave Mailbag

with JOHN ALLCHIN

14

Generally a good number of QSLs being featured this month, most notable being a number of replies from Yugoslavia, after a long period of a poor verification policy. It may be an idea to get this one while they are still verifying. For the early morning DXer, reception on 15240 kHz at 15:30 in English provides very good reception, but check the April DX Times for their full English schedule. Paul Ormandy has a nice one back from Cayenne in French Guyana on 4972 kHz and also reports a QSL from HRVC 4320 kHz in the Honduras. Now to this month's mail

BILL HUDDLESTON Auckland has 12 reports out and has been rewarded with Lagos 7275, Baghdad 11905, TWR Guam 11705, Varberg SSB 21555, Ulan Bator 6383, 12070 with 3 pennants, Moscow 9800, RM via Vladivostok 15130, ORU 17740, HCJB 15300, 11955, 11900, 6150 & East New Britain 3335. Nice pennants Bill.

MASAMI ONIZAWA Japan makes a welcome return with some nice QSLs - RTV Brunel 7215, ELWA 11945, 11835, Radio Santa Fe 4965, Radiodifusora do Amazonas 4805 and TIFC 9645. Masami asks if anyone has the current address for Radio Reloj, Costa Rica. If so let me know. Hope you can continue DXing at your new QTH Masami!

PHILIP HAMLIN Tauranga has verified Norway 11850 (in 17 days), RN 15310 with 50th Anniversary stamp, and TWR Bonaire 11790 in 6 months. Thanks Philip.

BARRY WILLIAMS Auckland has QSLs in from TWR Swaziland 4790, Clarin 11700, Frunze 17825, Moscow 7360, 7280 and Khabarovsk 17870.

IAN CATTERMOLE Blenheim has had replies from Malaysia 4845, 9515, 9710, Seoul 9580, BBC 15260, 21710, TWR Bonaire 11925, HCJB 17890, 6075, RBI 15115, P2T4 4890, RA 11880, 15405, Vienna 15275, Vatican 6190, P & P 15490, Moscow 17870, 11920, RNE 11815, 11830, RNZ 9620, 11850, AIR 11810, Helsinki 17785, 15270, Budapest 21525, Belgrade 15240, Sweden 15125, & Cairo 17920. Another good list Ian!

JOHN ALLCHIN Auckland has three out and QSLs in from RBI 17740 and Malaysia 15225 after 11 months.

ARTHUR CUSHEN Invercargill has verified TWR Swaziland 9730, Helsinki 17785, and Madrid 11910.

PAUL ORMANDY Oamaru has sent 15 reports out this time and has QSLs in from SBC 21520, IBA 21500, 21625, HCJB 6070, Riyadh 21590, 21530, Kenya 4804, RN Madagascar 15220, HRVC 4820 (country 142), Hungary 21525....

PAUL ORMANDY (continued) RBI 21540, Belgrade 15240 (country 143), Radio Five 3320, and Cayenne 4972 for country 144. Very good Paul!

CRAIG STRATHERN Timaru has five out and three in from Sweden 9695, Portugal 6025 and AIR 9912. Inx.

MICHAEL BRYNE Charters Towers, Queensland is our new contributor this month and has sent 11 away and has QSL'd Korea 9525, VOFC 15345, Finland 15260, RSA 15220, Jerusalem 9425, 21500, Veritas Asia 15280, HCJB 11900 Denmark 15165, BBC 15905 (11905 Michael ?), and ORF 17710. Good selection Michael and welcome to the Times. Thanks for kind comments - hope you enjoyed your holiday!

JACK FARROW Lower Hutt has three reports in the mail and has had returns from BBC 7210, RA 21455 & RN Bonaire 21640.

DAVID FELDON Rotorua has veries back from Tashkent 11730, Sweden 15125 and Denmark 15165. Four reports are out.

ARTHUR KINDELL Levin has sent two out in the past month but has no QSLs to speak of. Should be next time Arthur!

BRYAN CLARK Wellington has 6 out and QSLs back from RN Talata 21565, RM Simferopol 7105, RM Armavir 9620, Norway 9605, ELWA 11835, 11945 and Helsinki 15270. CU soon!

BILL JOLLY Kawerau is busy again with 18 reports out with veries back from IBA 11655, NHK 17795, Seoul 9525, Moscow 17720, RN Lopik 15235 & Finland 21495, 17785. 89% is a good return rate Bill!

GAVIN WATERS Wellington recently returned from the Philippines reports they are not on daylight saving this year. Meanwhile QSLs have arrived from RBI 11890, 21465, 17740, 17880, Pyongyang 9420 (country 54), also with pennant, ORF 15275, RSA 17780, and Finland 17785. Thanks Gavin.

RAY CRAWFORD Invercargill has QSL'd Spain 17735, Malaysia 9750, & Splendit 5025 after 21 months. Yes, worth the wait!

JACK SEARLE Haumoana has sent 7 out and has QSLs back from Jordan 9530, VOFC 17800, RA Shepparton 9505, AIR 15250 in 11½ months, Radio Moscow 7195, 12010, 15385, 7105, 9780, 11690 and 15130, and BBC Ascension 7105. I always headline a special request at the beginning and end of my report for transmitter site of the frequency logged, Jack. I will be interested to hear what they have to say!

JOHN MAINLAND Wellington has been active with 20 reports out and replies from Malaysia 15295, Karachi 15150, Lisbon 15340, FEBC 15450, Iraq 11905, Oslo 9605, Budapest 21525, Sofia 9765, KTWR 17855, Helsinki 17785 & Brussels 15205.

BEST OF THE MONTH

UNDER 9 MHz

Nairobi, Kenya 4804, 5kw. 121 Points.

Paul Ormandy

OVER 9 MHz

Radio Budapest 21525, 20kw. 108 Points.

Paul Ormandy

STEVEN GREENYER Invercargill has QSLd Radio Splendid 5025 after 30mths and La Voz de la Selva 4835. Bueno amigo!

RAY BABBAGE Wellington has veries from YVPA 4940, Pakistan 17665, Sofia 7105, YVOD 6190, Israel 9815, Vila 3945, NZ 15380, RA 11855, KTWR 17830 and WGCB 15270. (Whats that Ray - surely not a VOA transmitter callsign?)

JIM BENZONI Hamilton has 2 reports away and QSLs from WINB 15185, RN Talata 11730 & Bougainville 3322, bring cntry total to 93. Jim, I believe Deutschlandfunk have their own card but I got no response myself. Did you use DW's address perhaps?

WHAT'S THE TIME? Further to last month's front page feature, a few additions/amendments: Tunisia has DST 1 May to 30 September (GMT+2). Gavin Waters, just back from the Philippines, advises that they were not on DST as scheduled. Apparently the arrangement proved very unpopular last year. It's intro may have only been postponed until elections were over however. There is speculation whether Alaska is on DST.

REPORT FROM COLIN MILLER, SOUTH AFRICA

ANGOLA: Radio Nacional is back on 4820, after a period on 4825kHz. S/on time is still 0400 GMT.

CHILE: The Voice of Chile has been noted on new frequency of 17800, mixed with Taiwan from around 1100 to 1300, with EE at 1235. Freq not announced.

EGYPT: Cairo hrd with apparent sign-on to Africa at 1639 GMT with EE to 1830, on 15255. QRM from RFE/RL jamming.

PHILIPPINES: Radio Veritas hrd at 1400 on new 15165 in EE, replacing 15115kHz.

SRI LANKA: Latest schedule for SLBC EE Services:-
Channel 1 - 4968kHz 1230-1730; 6005 0430-0730.
Channel 2 - 4940 0030-0300, 1130 (1030 Sat/Sun & holidays) -1730; 6130 0300-0330 (0430 Sun & public holidays); 0730-0930 (1030 Sun & holidays) on 6130.
All Asia Service 0030-0230 on 6005, 9720, 15425; 0230-0430 on 9720, 15425; 1230-1730 on 6075, 9720, 15425.

English for Asia/Australia 1030-1130 on 11835, 15120, 17850; Test to Europe/Middle East/Africa 1845-1945 on 11870, 15115, 15120 and 17850kHz.

REPORT FROM GLENN HAUSER, TENNESSEE, USA

US PIRATE 'Voice of the Voyager' seems to follow a regular sked of Sat & Sun from around 0500 to 0545 GMT. Frequency is 5850. Hrd 15/4 and 16/4 with mx and DX tips. Gives location as "one mile north of nowhere". (At last a time/freq with the possibility of reception down under? Ed)

CLANDESTINE 'Radio Rebelde' claiming to be in Oriente Cuba, with SS cntry from "Comandante David" from 0058 tune in. Freq 7077v. Hrd past 0443 strongly.

ISRAEL IBA broadcasts - were interrupted by an 11 day journalists strike until 12/4, when prgms resumed.

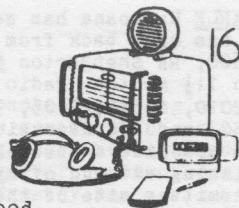
WINB's current sked; To Europe in EE 1700-2000 on 17880, 2002-2100 on 15305, 2102-2330 on 15185kHz.
To Sth America in EE/SS/PP 2332-0100 on 15175, 0102-0330 on 11905kHz. Jim Benzoni

ADVENTIST WORLD RADIO is constructing a transmitter of it's own in Guatemala City, Guatemala. Broadcasts are expected from 9/78. The first stage will consist of a 5kw FM transmitter, 10kw MW outlet and 20kw on SW. The latter will operate on 25 and 31 metre bands.

Patrick SCDXers 25/4

RADIO KIEV EE sked is 1930-2000 to Europe on 7360, 6020 and 5970kHz. To Nth America 0030-0100 on 7150, 7285, 11690, 11790 and 15110; 0300-0330 on 3900, 7215, 7360, 7400, 9580 and 11800kHz. Jim Benzoni

SHORTWAVE BANDWATCH



Coordinated by Barry Williams

It appears April was a quiet month for Shortwave listening . A few DXers who did tune the bands were rewarded with some good loggings on 60 and 90 metres . At the other end of the spectrum we find very little listening on the 16 and 13 metres . Let us hope this is just a lull and everyone is gathering strength for some serious winter listening .

TIMES IN GMT . (Add 12 hours for New Zealand standard time .) Frequencies in khz .

FREQ.	TIME	COUNTRY	STATION	PROGRAM & RECEPTION DETAILS	INITS
3200	1905	SWAZILAND	TWR	Religious talk and hymns. fair signal in Afrikaans	DW
3204	1820	NIGERIA	Ibadan	fair with talks . Also heard Kaduna 3396 at 0630	PO
3222	0542	TOGO	Lama Kara	fair with African vocals BC; Heard at 0612 with EE disco music , Good signal . Also heard on 5047 at 0548 & 1830	PO
3275	1924	SWAZILAND	TWR	Religious program with ID at 1949	DW
3288	1845	MALAGASY REP.	Tananarive	strong in FF with news, heard as early as 1815 till after 1920 .	PO
3300	0544	GUATEMALA	TGNA	heard poorly with music till s/off with theme music and SS ident at 0556 .	BC
3306	1824	RHODESIA	Gwelo	EE church service Sundays . Also heard 3396 khz.	PO
3316	0558	SIERRA LEONE	Freetown	s/on with Idents in EE and vernaculars . Also heard at 1830 with excellent strength .	PO
3320	1806	SOUTH AFRICA	Radio 5 network	.Top 20 program on Sunday	PO
3331	1844	COMORO IS.	Moroni Foreign Service	in Swahili . Mostly talks . Heard to fade out at 1912 .	PO
3345	1935	ANGOLA	'Em. Reg. do Huambo	. Local music and vocals . ID at 1949	DW
3350	0600	GHANA	Ejura	strong in EE news . // 4915 khz .	BC
3366	0540	GHANA	Ejura	also well heard 0600 with EE news // 4980 khz	BC
3380	1756	MALAWI	Blantyre	s/on with anthem and time pips .EE ID at 1800	PO
3925	1915	PAPUA NEW GUINEA	Port Moresby	opens with marches	AK
3945	0835	NEW HEBRIDES	Port Vila	news in EE and pidgin .	DF
3990	0514	LIBERIA	VOA Monrovia	with " Breakfast show " under Radio Liberty	BC
4760	1905	SWAZILAND	TWR	Choral singing	DW
4765	0502	CONGO	Brazzaville	Good with highlife music and FF announcements Heard at 0642 with native music and vernaculars .	BC
4770	1800	LIBERIA	ELWA	good in EE with ID and sched at 1815 s/off .	PO
4777	0625	GABON	Franceville	strong in FF till s/off 0630 with anthem.	PO
4785	1824	TANZANIA	Dar es Salaam	very good with native music program . Also heard on 5050 khz at 0600 and 1830 with strong signal	PO
4810	1820	SOUTH AFRICA	SABC	Good with relay of EE service . // 4835 Heard 0439 with Springbox Radio .Fair with many adverts . News at 0500 . 4835 khz also heard 0501 with news SABC . fair in EE .	BC
4825	0557	UPPER VOLTA	Ougadougou	strong at s/on in FF .	PO
4850	0930	SURINAM	Paramaribo	fair announced " SRS the Big One " Fair with DD ID at 0944 .	DF
4860	0806	PERU	Radio Chinchaycocha	fair with music and time announcements Ident as " Desde...Radio Junin ,Transmite Radio Chichaycocha "	DW
4865	2057	MOZAMBIQUE	Maputo	ID and news 2100 in local vernaculars /	MO
4885	0430	PERU	Radio Huancavelica	good signal in SS	DW
4885	1812	KENYA	Kisumu	with QRM from Russian .	RC
4890	1915	PAPUA NEW GUINEA	Port Moresby	opens with marches till 1930	PO
					AK

<u>FREQ</u>	<u>TIME</u>	<u>COUNTRY</u>	<u>STATION</u>	<u>PROGRAM AND RECEPTION DETAILS</u>	<u>INITIALS</u>
4890	0557	SENEGAL	Dakar	suffering CW QRM at s/om . clear 0602 with news	PO
4892	1926	MOZAMBIQUE	Beira	music . ID at 1931 then news	DW
4910	0540	ECUADOR	Em. Gran Colombia	fair in SS	HS
4912	1840	ZAMBIA	Lusaka	weak in EE with heavy Utility QRM . Local program , 2120 heard with ID .	PO DW
4945	0830	COLOMBIA	Radio Colosal	fair with music and IDs	MO
4965	0834	COLOMBIA	Radio Santa Fe	good with music program . Usual style	MO
4975	1932	YEMEN ARAB REP.	Sanaa	fair with AA music and ID's . Ex 4854	JM
4980	0530	SWAZILAND	Swazi Com. Radio	heard mixed Ghana with PP commercials ID's " Paralelo 27 "	PO
4985	0535	BRAZIL	R.Brazil Central	. Fair PP with regular identifications	HS
4990	0540	NIGERIA	Lagos	fair in EE . BC ; News 1800 with good signal	AK
5005	1320	NEPAL	Radio Nepal	New 100kw transmitter . News 1350 . Heard till tune out 1405	JM
5010	0502	CAMEROONS	R.Garoua	FF,EE and local dialects . EE news 0510 EE news Sundays 0610 . Sometimes off by 0600	JM PO
5020	1945	SOLOMONS	Honaria	Fair with local island program	AK
5020	0530	NIGER	Niamey	s/om FF .Talk till news 0600 . s/off 0630	PO
5038	0612	CENT.AFRICAN	EMP.	Bangui strong in FF . Fair in Vernaculars	DWPO
5041	0648	GUINEA BISSAU	Bissau	heard once only when clear of QRM from 5040 Program PP talks .	PO
5980	0430	SOUTH AFRICA		Good sig with transmission to Central Africa . Using new 500 kW transmitter . Sundays with Gospel in Lozi .	AC
5990	2045	MALTA	" Malta Calling "	Good in GG with news and music to 2115	BC
6010	0500	ECUADOR	HGJB	Excellent level in Swedish . // 9665 khz .	AC
6055	1059	JAPAN	NSB Tokyo	" Lets Learn Japanese " ID at 1100 . EE	DW
6082	0811	PERU	Radio Nacional	with fair signal	MO
6105	0400	HUNGARY	R.Budapest	EE DX program for North America on Sat . // 8000 9585 and 11910 khz .	JM DF
6155	0645	USA	WYFR	fair with talk program	DF
6190	1014	VENEZUELA	Ecos del Torbes	Good with ID'd time checks advert SS	BC
6230	0310	EGYPT	Cairo	in EE to North America . News 0315 . Poor signal	JM
6230	1915	PAKISTAN		Very good with local language program .	AK
7270	0630	POLAND	R.Warsaw	ID signal and s/on . Fair in EE // 9675 khz	DW
8890	1715	MONGOLIA	Ulan Bator	fair with EE news . Talks and songs	AK
9480	0436	ALBANIA	Tirana	good with usual anti USSR/USA "Tirade"	HS
9500	0630	LABANIA	Tirana	After interval signal straight into program	PH
9580	2105	AUSTRALIA	R.Aust.	very good with EE news	JF
9585	1203	JAPAN	R.Japan	fair with news	JF
9585	0943	BRAZIL	R.Excelsior	good signal with popular music prog. 1000 QRM	AC
9585	2035	SOMALIA	Mogadiscio	Program in Somali ID 2042 then news .	DW
9655	2120	GREECE	Athens	EE news then into Greek . // 6130 , 9760 khz	DW
9665	1330	TURKEY	Ankara	Persian into AA at 1400 . Fair signal	JM
9670	2116	PORTUGAL	Sines	AWR religious program . ID 2129	DW
9690	0425	RUMANIA	R.Bucharest	good with EE news .	JF
9695	2330	SWEDEN	Stockholm	very good at s/on . News etc.	AK
9740	2033	PORTUGAL	R.Nacional	EE news // 6025	DW
9775	0300	USSR	R.Kiev	Ex 9610 khz in EE 0300-0330 .	AC
11710	2300	ARGENTINA	RAE Buenos Aires	fair with SS news and ID	JM
11740	0200	ALGERIA	Algiers	Fair in AA service	JM
11750	0430	BULGARIA	Sofia	Very good in EE to North America	HS
11760	0545	CUBA	Havana	excellent signal with light music program	AK
11810	0830	ITALY	RAI	IS then program in Italian . Fair signal	PH
11830	0624	LIBERIA	ELWA	IDs in EE,FF,AA and Yoruba at 0630 . EE at 0700	JM
11835	0830	AUSTRALIA	R.Aust.	EE for Pacific . Fair but excellent 11720	JM
11845	1430	GUAM	KTWR	EE Religious prog. // 15135 khz	JM
11850	0510	NORWAY	Oslo	IS Ident and program summary in EE . Heard to 0600	PH

FREQ	TIME	COUNTRY	STATION	PROGRAM AND RECEPTION DETAILS	18	INITS
11905	0300	IRAC	Bagdad	good with EE ID and news . Also reported 11925.		CS
11960	0500	ISRAEL	Jerusalem	ID news and weather in EE . Good signal		DW
12020	0800	USSR	Leningrad .	ID and news in RR . " Govorit Leningrad "		DW
15115	2220	CHILE	Santiago	Fair with GG service . // 15150 khz		JM
15135	2130	BULGARIA	R.Sofia	opens in EE but suffers QRM from TWR Guam		AC
15155	0830	FRANCE	Paris	Good in FF .At 0900 KTRW Guam on top in JJ .		CS
15185	0202	SRI LANKA	Colombo .	VOA Breakfast Show .		AK
15190	1810	SWEDEN	Stavarberg	Fair in Swedish Home Service in SSB		JM
15220	1540	SAUDI ARABIA	Riyadh	Fair in AA ex 15175 khz		JM
15225	2130	TAIWAN	Taipeh	EE for Europe . Poor with QRM from Tunis		JM
15280	1615	BELGIUM	Brussels	EE fro Africa .announced // 17740 khz		JM
15310	2040	BULGARIA	Sofia	VG with EE to Africa		HS
15350	2200	LUXEMBOURG	HEARD	after VOA closes .News in FF then popular M. Some EE announcements till fade out 2300 .		AC
15375	2050	EGYPT	Cairo	AA with ID 2059 DW ; 2115 " Favourites for All "		HS
15410	2127	??	UN Radio	Fair in EE mixed with others		HS
15470	2035	USSR	R.Moscow	Good with EE to Africa		HS
17710	1155	AUSTRIA	IS and ID	then program in GG . Fair signal		RF
17720	0915	FRANCE	Paris	Fair with FF news		RF
17860	0606	SOUTH AFRICA	Radio RSA	fair with news in EE		JF
17870	1440	FINLAND	Helsinki	EE fro Europe and Middle East Fair sig.		JM
21460	0802	BELGIUM	Brussels	good in French		JS
21555	1100	SWEDEN	Stockholm	Good in SSB on Home Service		RC
21515	0248	PHILLIPINES	PERC	Good in EE		JS
21566	1015	GT BRITAIN	BBC	Strong in Chinese		JS
21565	1029	MADAGASCAR	R.Nederland	Opens in DD for Aust/NZ .good strength		BC
21570	1000	AUSTRALIA	R.Australia	with an excellent signal		JS
21580	2020	FRANCE	Paris	R.France International . VG in FF to Africa		BC
21810	0905	GT.BRITAIN	BBC	Strong with EE news		JS
21700	0730	CZECHESLOVAKIA	Prague	good at opening		JS
21730	0710	PAKISTAN	Karachi	with fair signal		JS
21735	1900	PORTUGAL	RFE	excellent to s/off in Bulgarian .		BC

Bandwatch contributors

JS Jim Searle BC Bryan Clark DF Don Feldon AK Arthur Kindell
 HS Jack Searle PH Philip Hamlin JM John Mainland JF Jack Farrow
 AC Arthur Cushen CS Craig Strathern PO Paul Ormandy RC Ray Crawford
 DW Dick Whittington Melbourne MO Masami Onizawa Japan .

Masami is moving to Tokyo and because it is unlikely he will be able to
 put up an antenna his listening may have to be curtailed . Very many thanks
 Masami for your contributions over the months . Lets hope you will be back
 DXing again soon .

JOHN CAMPBELL, leading
 Australian DXer, will
 be in NZ during May.
 Following a few days DX
 at Tiwai, John will fly
 north for a few days
 further DX at Te Araroa
 East Cape 23-25 May. If
 you're likely to be in
 the area and wish to
 join us, telephone Wgtn
 726-144 Bryan Clark for
 further details.

POLISH PATHFINDERS new
 freq is 6200, sked 1100
 -1700 wkdays, 0900-1700
 Sundays. Nielson SCDXers

RADIO MOSCOW SITES

Many members have taken
 up Barry Williams sugges-
 tion (page 11 Feb) &
 have been reporting
 Radio Moscow to obtain
 QSLs for specific trans-
 mitter sites. In an
 upcoming issue we will
 publish a map showing
 known locations by
 republic, and summarise
 those reported in SW
 Mailbag. If your QSL
 gives a transmitter
 site, don't forget to
 tell us of it.

RADIO MONITORS INTERNATIONAL

The DX prgm broadcast over
 SLRC Colombo will celebrate
 it's 3rd birthday with a
 special prgm Sunday 28 May.
 Sked is 0315 on 9720, 15425;
 1100 on 11835, 15120 & 17850;
 1900 on 9720, 11870, 15115 &
 17850kHz. Adrian Peterson

CORRECTION Contrary to the
 report on page 19 Feb. Times,
 New Hebrides is moving toward
 independence, but this is
 still a few years away. BC

ARTHUR CUSHEN'S SHORTWAVE REVIEW 19

This month sees the introduction of single side band broadcasts from Switzerland which will carry the English programme to North America 0145-0215 on 11780 and 1315-1345 on 17740kHz. Radio Sweden has cancelled its broadcast in Swedish to New Zealand but will also carry this programme on single side band for our reception. There are many changes coming into effect on May 7 and this information is included in this review. These details were first broadcast on Sunday, May 7, at 1015GMT on the medium and shortwave services of Radio New Zealand.

All times GMT.

All frequencies in kHz.

Belgium: Brussels broadcasts in English 0015-0100 on 6080 and 9685kHz. English to Africa now on new frequencies 1615-1700 on 15280 and 17740kHz. (John Mainland).

Brazil: 9585kHz Radio Excelsior heard with popular English recordings 0945 but at 1000 suffers side band from VOA and Korea on 9580kHz. On 9645 Radio Bandeirantes heard at 0430 during 24 hour a day operation.

Bulgaria: Sofia on 15135 opens with English 2130 but mixed with KTWR Guam which has Russian at that time.

Canada: Radio Canada advise that they have dropped the idea of using 11940kHz in place of 9605kHz to North America 0200-0229 and 0300-0329 and will use the old schedule.

Ecuador: HCJB has rescheduled the DX Party Line broadcast to the South Pacific and it is now heard 0900-0930 on Monday, Thursday and Saturday on 6130, 9745 and 11900kHz.

Egypt: Cairo advise that the latest English schedule is as follows: 0200-0330 on 6230, 9475; 1215-1330 on 17920; 1715-1845 on 15255; 2030-2200 on 11790; 2230-2345GMT on 9805kHz.

Guam: KTWR at 1100GMT is using 15425 and 11850kHz and asking for reports on comparison between these frequencies. John Mainland reports that at 1430GMT KTWR is using 11845 and 15135kHz.

Hungary: Radio Budapest is using 6105kHz with English at 0400GMT.

Korea South: Seoul is using 7550kHz in Korean to 1900 and then time signal and a programme in Arabic. The frequency of 9580kHz is heard at 1000GMT in parallel with 9525kHz.

Luxembourg: Heard on 15350kHz after VOA closes at 2200 in Arabic. Luxembourg has news in French for five minutes and at 2205 has popular music with some English announcements.

Mongolia: Ulan Bator on 12070kHz heard with English 1219-1245GMT and Saturday's has a Mailbag according to John Mainland.

New Zealand: Radio New Zealand Shortwave Service from May 7 will operate to the Pacific 6105kHz 0500-1030GMT; 6105 1800-2045; 11800 1800-2015; 15130 0400-0730; 15380 2030-0345; 17710 2100-0445. To Australia 9620kHz 0745-1030GMT.

Norway: Oslo to Australia and New Zealand 0700-0830 on 9590kHz also uses 15135 and 15175kHz and has English on Sundays only 0800-0830GMT.

Peru: 5025kHz OAX7Q opens at 1010GMT with the National anthem. 9507kHz Radio America heard at 0245 and generally news at 0300 after time signal.

Sweden: Radio Sweden has reduced its transmitters to two for use from May 7 and a third transmitter is being held at a stand-by. This has resulted in the cancelling of the service in Swedish 0630-0830GMT on 21690kHz. The broadcast in English to Australia and New Zealand 1100-1130GMT continues on 15125kHz. The Single Side band transmissions 0500-0830 on 21550 are beamed to Australia and New Zealand. The other transmission times are 0930-1600 on 21555; 1600-2000 on 17785 and 2000-2130 on 15190kHz. ••NZ Sked above corrected per info 4/5.BC

..sign off..

RADIO LESOTHO is to enter the field of external broadcasting. A Foreign Service is in the planning stage, with funds provided by the British Overseas Development Ministry. There will also be high-powered transmitters for the Home Service. Radio Lesotho's current transmitters include a 10kw SW outlet at Maseru 4800kHz, and 4kw FM relay of the BBC World Service.
Ginbey SCDXers

MASIRAH ISLAND BEC is due to test it's 100kw SW transmitters and Victor Goonetilleke recently heard the BEC tuning signal continuously on 11910 kHz from 1540 to 1610, underneath the regular BEC Urdu transmission. UADX The following sked has been registered with IFRB: 7250 1545-2030 (2x100 kw transmitters); 11780 0545-0815 (100kw); 11910 (200kw) 1330-1645; 11955 0200-0430 (2x100kw); 15310 0845-1515 (2x100kw). Dene Lynneberg

IRAN is reported to have ordered a total of 16 500kw SW transmitters from the French Thomson-CSF Company. They will be set up on a site near Teheran, making it the largest transmitter set-up in the world. SCDXers

market square

FOR SALE National Panasonic DR28 (RF2800) receiver. A few months old. Digital frequency readout, easily set to 1kHz. Covers FM, BCB, SW 3.2 to 30.0MHz. Two-speed tuning. Dual conversion on HF etc. Send Stamped Addressed Envelope with any enquiries to Jim Searle, 8a Balmoral Street, Opoho, Dunedin. Telephone 30121. For further information refer to page 6 of the "How to Listen to the World" supplement of the 1978 WRTVH.

SPECIAL OFFER The "Review of International Broadcasting" (see review in February DX Times) is now available in Australia/NZ for US\$14.00 airmail per year, if ordered before June. For a sample of the RIB send 5 IRCs or US\$1 to Glenn Hauser, University Radio WUOT, Knoxville Tennessee 37916, USA. Samples of the April issue are available, which includes a monitored programme schedule for AFRTS - a rarity these days. We fully recommend RIB as a worthwhile and stimulating addition to the SWL scene. Ask your bank about a payment draft.

NEW ZEALAND RADIO DX LEAGUE

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

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P.O.Box 2956, WELLINGTON

Only enquiries relating to content & distribution of the Times should be referred to Wellington. Closing date for contributions is the first Monday of each month at 12 noon.

ANNUAL SUBSCRIPTION: NZ\$ 5.00

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

BEC SINGAPORE The new relay station at Kranji is operational. Siegfried Heldt of Germany says 7180kHz is used for Asian languages 0930-1830 & 2200-0045. SCDXers Victor Goonetilleke has heard 6050 1300-1645 in various Asian languages. Also 6195 is listed for 1700-1830 and 7180 at 1330-1830, with World Service from 1645. UADX

FOR SALE BC221 Frequency Meter, complete with AC power supply, instruction manual and original calibration book. Good order. Modification sheet for solid state conversion if needed. Price \$30.00 Contact Jim Searle (see details at left.)

FOR SALE Solid state crystal calibrator in metal box, approx 5x4x2" with output frequencies of 1mHz, 100kHz and 10kHz. Contact Jim Searle (details at left)

WANTED Did anyone attending the League's 1976 Convention in Wellington (Tatum Park) keep a tape recording of the historic "RADIO GUANO". We'd very much like a copy for League Archives. Please send us your tape or cassette for copying, alternatively you may prefer to copy it yourself. We will pay all costs, postage etc. Editor NZ DX Times, P.O. Box 2956, Wellington.

NBC PAPUA-NEW GUINEA's Port Moresby Hq. have a 'DX Officer' who will verify all all reports to provincial stations. NASWA member David Sarrazin has QSL'd hard-to-verify Radio Manus 3905 this way, with a full detail map card, coloured yellow, and a bumper sticker.