



NEW ZEALAND DX TIMES

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AUGUST 1974

American Forces Antarctic Network LOGGED AND VERIFIED

The American Forces Antarctic Network, McMurdo Sound was logged late last month with experimental transmissions on shortwave.

Dene Lynneberg, while band scanning at Quartz Hill on the evening of 21 July detected a weak signal with pop music and an American DJ on 6012 khz. After consultation with Bryan Clark who was also able to pick up the signal on his 680X, the possibility of it being CJGX was considered. The mystery was further unravelled - or confused - by the ID of "AF-AM 100 on your dial." This was clarified by a further announcement "Coming to you from McMurdo Sound, Antarctica." The American Forces Antarctic Network had been logged! The signal was weak but steady and a continuous recording of the station was made up to 10.30. GMT. Verification of this catch was vital.

A letter was rushed to the Naval Communications Unit, Operation Deep Freeze, Christchurch Airport and less than 10 days later brought forward a teleprinted QSL in response to Bryan Clark's report which had been relayed south by the same means! The reply from the Senior Chief Radioman reads:

In an effort to help the morale of men at South Pole station and other small and isolated Antarctic wintering-over stations, we at McMurdo station have been experimenting with shortwave transmissions of what is normally a low powered FM transmission for McMurdo station and New Zealand's Scott Base area only. Our transmissions on 6012 khz utilised a conical monopole antenna with 1 kw power output from our transmitter. It is a pity that you just missed the broadcasting of our 'Kiwi' show in which our good friends from Scott Base provide the disc jockeys and musical selections.

This text suggests that transmissions may be irregular. The station was noted again on the three following nights from as early as 0400 GMT but suffered interference from VOA Greenville 6015 khz between 0600 and 0800 except on Sundays when the VOA does not sign on until 0730. Radio America, Peru on 6011 has dominated the frequency in the last few weeks.

CLOSING DATE FOR THE NEXT ISSUE: WEDNESDAY 4 SEPTEMBER. PLEASE SEND DETAILS OF YOUR DXING, VERIFICATIONS, BEST-OF-THE-MONTH ENTRIES, TO BOX 2956, WELLINGTON.

73's IN 1974 WORLD DX HANDICAPPED AID YEAR.

FROM THE BRANCHES

SOUTHLAND. The monthly meeting of the branch was held at Sutton Burtenshaw's on 23 July with 10 members present. Members discussed the Countries List and some additions were proposed, while the annual meeting details were discussed and a review of the six-monthly competitions given by Irene Simpson. As the handicapped system is under review no monthly competition results were finalised.

OTAGO. There were 8 present at the July meeting, held at 83 Cannington Road, including Ross Renton from Balclutha and Ian Wells, now boarding in Dunedin. Nominations were taken for officers and news committee. A DXpedition is being arranged for 24 August. Competitions: SW Over 9 - FEBC 21515 J.Aitchison Under 9 - Deutsche welle 7105 L.Andrewes. BCB Over 1050 - WXLE 1385 P.Jackson Under 1050 - PJB 800 P.Garden.

CANTERBURY. A good attendance was recorded at the June meeting at Austin and David Hadlers. The July meeting had to be cancelled due to illnesses. The AGM will be held at Brian Withers on Sunday 11 August at 2pm. Competitions: SW Over 9 to Austin Hadler with RSA 15220; Under 9 CFRX 6070 Brian Withers. BCB also to Brian Withers and Radio Bosom.

WELLINGTON. 5 members attended the July meeting. A letter was received from Arthur Cushen expressing his thanks for the branch's hospitality during his recent visit. Bruce Williams advised of two possible guest speakers at future meetings. A tape recorded quiz of languages and interval signals, prepared by Dene Lynneberg, was won by John Mainland. The next meeting, the AGM, will be held at Bruce Williams, 82 Pirie Street, Wellington (Tel.59-121) on Sunday 25 August at 2.30pm. Competitions: SW Senior to John Mainland with Austria 15435 and RSA 4875. Junior Over 9 - Denmark 15165 and Nigel Robins; Under 9 - SBC 5980 Jack Farrow.

A very warm welcome return to League branch status to our friends in.....
TARANAKI. The first meeting of the new branch was held at the home of Owen Barriball in his caravan-shack-discoteque. 9 members of the League were present and the branch was formed: President Robin Chambers, Vice President Bill Woller and Secretary/Treasurer Mike Smith. A branch competition was organised and we should see the results of this next month. There was plenty of discussion on DX and comparisons were made and ideas exchanged. Next meeting is at Bill Wollers in Opunake on 18 August.

WITH A NEW BRANCH IN TARANAKI, THE LEAGUE NOW HAS GROUPS ACTIVE IN 7 AREAS! AND THERE ARE HOPES FOR ANOTHER 2 BRANCHES IN THE NEAR FUTURE. CERTAINLY IT MUST BE MANY YEARS SINCE SO MANY LOCAL DX GROUPS WERE ACTIVE IN NZ! Ed.

2956

REVISED REPORT FORM. Thanks to Sinclair Bennett, Hans de Jong, Jack Searle, Deryk Duffy and Mark Corrigan for your comments. The opportunity to voice an opinion on this issue is open till 15 August, at which stage all comments will be considered before forwarding to Adcom and the Printer.

OVERSEAS AIRMAIL SUBSCRIBERS please note that only the Times is sent at air mail rates. Any supplements, such as last month's Countries List are forwarded by sea mail.

ANSWERS TO CORRESPONDENTS. Paul Frost: your query re two subscriptions has been forwarded to Invercargill. Peter Ellery: Sorry but your ladder entry misplaced and missed from this month. Please advise new totals by end of September. Have referred your request for membership to Invercargill. Jack Searle: Keen to hear how your preselector/booster works out! Good luck at the rifle range!

COUNTRIES LIST. Elsewhere in this issue is an addenda to your list. Make the appropriate amendments and count up your totals! From October, the NZRDXL Ladder will include a column for your TOTAL COUNTRIES VERIFIED on SW and BCB. Consideration is also being given to an award to recognise merit in this area. Have you verified 50 countries yet? 75? 100?? Let us know!

BROADCAST DX

Editor: Bryan Clark

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Hot news this month comes from Stan Larking in Whakatane - "1XX Chief Engineer advises that owing to an administrative 'hitch' the repeater at Murupara was allocated 1110 khz, and has been operating there since 19 July. A fresh application has been lodged for a frequency change to the desired 1240 khz." Your editor has noted evening reception in Wellington at poor level with 2UW dominating the frequency.

The mailbag is again fairly light this month but late night Yank reception by Keith Robinson and other South Islanders augers well for the coming months. Keith also notes many ABC regionals opening at 7.a.m. and is hearing a loud station on 1016 khz at 7.45.a.m. Apparently a recent schedule lists TAW Istanbul here with 1200 kw.

Finally from NRC news comes word that KPOI has requested a move to 990 with 10kw day and night ex 1380. What with KTRG there and recent changes forecast in 'Pacific Asian Report' it might be a good idea to log those Hawaiians now!

BRUCE MCGREGOR, Feilding has logged 4AM 2NA 2NC and 3BO with QSL's from 2GO 2UW 2KO 2VM 2QN 2FG 2BL 2KM and 1XW.

TONY MAGON, Waiouru has logged DWZL DZDL 1424 DYLA 1555 DXMX 740 DYRG 1570 DXOR 1327 DYRM 1115 DYRS 1196 DXLL 1046 DWWS 620 (QTH ?) Sharjah 1535. Can anyone help Tony with an address for DWWS.

ERIC MCINTOSH, Invercargill has logged JOAG JOSEF 4AY 6DB. QSL's from JOUR Kuwait 1133 Vladivostock 1250.

KEITH ROBINSON, Kapuka has reported BBC Cyprus 1322 2LT 6XM XBLZ and verified VOA 791 Bosom Cyprus 1232.

ALAN ROBSON, Christchurch has logged KFI WBAP KIAG KSTR Guam 610 XEROK India 1130 Burma 955 Khmer Republic 918. QSL's from Vladivostock 1250 Cuba 590 KFBK VOFA 1580 KGU KXEL WBAP KSTR. KSTR certainly a good catch as not listed as 24 hours. Maybe on due local forest fire crisis?

DES DAVEY, Te Kuiti has reported KORL and Noumea 670. QSL from Noumea. Alan Roycroft is well known to the League - a great friend of DXers. Good luck with Opal mine!

ANDREW WHITE, Christchurch has logged XEROK and 1XW. QSL's from WBZ and 1XW.

ROBIN CHAMBERS, Opunake has reports out to 9WK Hong Kong 545 Malaysia 885 WSZD HJNY TIBAS Kuala Trengganu 765 DZDR TICA Thailand 1128 and DXLL. QSL's in from Kuala Lumpur 590 TIJC Asmara Ethiopia 944 and Sevilla 683. Looks like the signals are stopping at Opunake Robin.

PHILIP BROOKS, Wanganui has them out to 2WL 3ZG with QSL's from 2WL 2UW 3ZG.

JONATHAN AITCHISON, Dunedin reports bad conditions, but improving Yanks. QSL's from KFBK KGMB 2NX.

STEVEN GREENYER, Invercargill has varies from AIR 1130 KGMB and Bosom.

MARK CORRIGAN, Wanganui has QSL's from 1ZG 2SM 2UW 3YB 3ZB 3ZM 4XO with reports out to 2KY 2MG 2VM.

GAVIN BENNETT, Invercargill, a new member blasts off with reports to VOA Phil 1140 KNX 6BS 7SD with QSL's in from 1XI 1XX 1ZM 1XA 1XW 1ZD A3Z 4GR 4IP 4XO 4YW 4ZB 7HO 7HT 7LA 7ZL 5RM 5DN 5AN 2CA 2NX UW SM UE QN WL KO 2VM GB XW ZG ZW ZA ZD GZ Singapore 790 3BA DB XA KZ ZB VOA Bangkok 1580 Suva 560 Kuwait 1133 Vladivostock 1250 6PM 6WF. A good start Gavin.

SUTTON BURTENSHAW, Invercargill has logged 1ZG 4VL 5AU with varies from 1ZG 4TO and KKON. Sutton reports a burgled antenna - doesn't help reception.

BRYAN CLARK, Wellington has logged 1XX repeater 1110 thanks to Stan Larking. QSL's from 5DN 4BC Union 880 with pennant.

PETER JACKSON, Dunedin has logged 2ST 3TR 4GR KEEN 4NA with QSL's in from CHQM Singapore 790 WXLE 4RO 3TR KGMB. Bryan's the name Peter.

PHILIP GARDEN, Dunedin has reports to KOMA VL2NI Malaysia 885 DZRP 920 JOSEF 1330. Varies in from VOFA 1580 KFBK XEROK PJB Sabah 1475.

PAUL AFONSEM, Invercargill has logged 4
 4XO and has veries from 4XO 6XM A3Z
 2ST Monte Carlo 1232 2G0.

MERV BRANKS, Invercargill has reported
 4JK 2GB. Verified are 4QG WXLE KMOX 2DU
 6XM 2K0 and KJJJ. Hope all is well Merv.

NEVILLE HENRY, currently in Wellington
 has verified WOAI KWKH and logged 'nut
 -ting.'. Ring Bryan Clark 43870 eves.

MIKE SMITH, Matamata has logged KPNW
 1120 XERF 1570 KGA 760. QSL's from 4GY
 KPNW KOMA VOA Rhodes 1259 WXLE.

JOHN SLATER, Waiheke Island has reports
 out to 4IP 3AW 2KP with a Bosom QSL.

ARTHUR CUSHEN, Invercargill has a Bosom
 reward and one from 6XM. Report to KIOE.

SINCLAIR BENNETT, Christchurch has
 QSL's 2KM and 4LM with Fiji 1470 logged.

STAN LARKING, Whakatane has logged 1XX
 repeater 1110 and has a QSL from KGU.
 Thanks for the hot news.

BOB BOUNDY, Christchurch proudly reports
 a QSL and letter from the Voz de Cuba
 590 and KORL 650.

BRIAN WITHERS, Christchurch advises
 reports to Sharjah 1535 India 720
 ZK1ZN 620 XEX JOHK with a QSL from 1XB.

RAY BABBAGE, Wellington has rewards
 from 4MI 480 4QA JOKD JOUB KOOL KPNW
 WLCY KGU WXLE. Hard luck re your loss.

GRAEME SHILLITO Dunedin advises a QSL
 from KJR 950.

ELIZABETH HELLYAR Bulls has reports out
 to 3DB and 3NE. QSL's from 2NX 3DB and
 4QR at last.

ERROL MONSON, Timaru has a QSL from 2UW.

BROADCAST TRAIL

EVENING

- 570 KIAC very good 11.30 when 2YA off.
- 620 Nuie good in Nuien 5.55 BC
- KWFT C & W mx 10.15 KR
- KSTR 9.45 fair with weather, fire warning AR
- 640 KFI fair 10.50 AR
- 650 TIBAS Radio Monumental good 4.45 7/7
- 680 KNBR with news 11 KR
- 740 KTRH 10.15 KR
- 800 XEROK good 10.55, 9.15 AR KR
- 820 WBAP fair 11.20 AR
- 880 KRVN changes to daylight pattern 11,15 KR
- 940 KFRE VG 11 PJ
- 960 KOOL nx mixed KABL 11.10 PJ KR
- 980 KFWB fair with Canadian midnite
- 1047 DXLL fair good 11 - 11.30 RCh
- 1055 Kai strong

- 1128 Thai strong 10.15. Chantaburi ?
- 1170 TICA Radio Columbia often domin -ant 4.32 - 5.03 15/7 RCh
- 1190 HJCV Cordillera fair 4.39 BC
- 1200 WOAI 11 KR
- 1205 DXSY fair 10.45 RCh
- 1360 KGB fair 11.30 GS
- 1385 Radio Pipaton HJNY (listed 1390) fair good 4.40 - 5.02 7/7 RCh
- 1390 KCEY all night KR
- 1430 KALI 10.55 good in SS GS
- 1440 XRLZ 11.30 KR
- 1510 KGA VG 11.15 PG
- 1520 KOMA mixed 12U 9.15 PG
- 1570 VL2NI fair 6.24 PG
- 1580 WSRF mixed KDAY 9.36 PG
- KDAY good by 6 JA

Thanks to Alan Robson, Keith Robson
 Robin Chambers Bryan Clark Peter
 Jackson, Graeme Shillito, Jonathan
 Aitchison, Philip Garden.

MORNING

- 533 Weak unid Asian 3.10 RCh
- 545 Radio Hong Kong exc with nx wx 3 RCh
- 600 4MS at 7.10, 4GY at 7.35, 7ZL on 8. KR
- 670 Noumea strong s/on 7 PG
- 765 Kuala Trengganu good in Malay 1.45 KR
- 860 KTRB 1 KR
- 885 Malaysia EE nx 3.30 PG KR RCh
- 1020 KGBS 1.05 KR
- 1036 DZDR good to s/off 3.03 RCh
- 1040 KHVH good 3.15 PG
- 1050 XED 12.30 KR
- 1130 KSDO 12.15 KR
- 1150 KPLS 1 KR
- 1170 KLOK 12.45 KR
- 1310 KDIA 12.45 KR
- 1320 KUDE 12.45 KR
- 1327 DXCR fair 2.30 RCh
- 1330 JOSF good 7.10 PG
- 1345 HSKU good 2.30 RCh
- 1520 9WK weak/fair s/off 2 RCh
- 1554 Nice exc in FF 7.40 GS
- 1580 FEN poor after VOA Bangkok off 5 PG

BEST OF THE MONTH

SENIOR

Asmara, Ethiopia 944 Khz 50kw
 128 points, Robin Chambers.

JUNIOR

WXLE Canton Island 1385 Khz
 250 watts 116 points
 Peter Jackson.



DX FORECAST

AUGUST

6.00.p.m. - 8.p.m. USA
6.p.m. - 7.p.m. Mexico
5.30.p.m. - 6.30.p.m. Central & South
Americans
9.30.p.m. - 10.45.p.m. US East Coast
10.00.p.m. - 11.30.p.m. Central/South
America
2.a.m. - 4.a.m. Asians good
5.a.m. onwards Middle East
6.a.m. - 7.30.a.m. Europeans.

SEPTEMBER Month for Europe

6.p.m. - 6.30.p.m. (especially the
last ten days of the month)
Portugal, Canaby Is; poss
West Africa. Watch split
frequencies.
6.20.p.m. - 7.30.p.m. USA
6.p.m. - 7.p.m. Mexico
6.30.p.m. - 8.p.m. Canadians
8.30.p.m. - 9.30.p.m. Look out for U.S.
East Coast.
1.a.m. - 4.a.m. Asians good
4.30.a.m. onwards Middle East good.
5.15.a.m. - 7.a.m. Europeans.

STATION OF THE MONTH

Earlier this year Canterbury Branch member Craig Crawford visited 3XA 1290 khz in Christchurch. Here is his report:

"How are ya, this is Muz in ya radio this arvo, truckin out the summertime music...."

The voice sits behind a mountain of self cueing cartridges and as it speaks it unconsciously places the Grace pickup head on the next disc spinning on one of the three Apan decks.

The Radio Avon interior is impressively furnished; the grained wood merging into the dark red acoustic panels. The studio is large and a huge window looks out to the fault monitoring equipment and on into the second identical studio poised ready for use should any fault occur. Across the reception area lies the bustle of the newsroom, dominated by its own large fully equipped studio.

These studios in Kilmore Street are connected to the transmitter site, 8 miles away in Marshlands, by two Post office landlines. There, in a small hut, humtwo modern transmitters

5 each capable of 5kw if required. Above climbs the 190 vertical quarter wave antenna, standing over the lush grass covering the two hundred and twenty buried radials. All signals from Avon are heavily compressed; ie. extremes in audio tones are brought closer together before transmission. All transmitting and studio equipment was supplied and is maintained by Tee Vee Radio Ltd working in conjunction with Avon's engineer Murray Glue - formerly Radio operator on the peace ship Fri and technician for Radio Hauraki.

A large part of the finance for building the four floor building and forming the station came from the royalties gained by golfer Bob Charles from the use of his name on shirts made by Canterbury. Breakfast host is ex-Hauraki DJ Wayne Douglas and dinner host is Murray Ingles, formerly Murray the I of radio I, and now Radio Avon's Muzaradio. Lee Hanner takes the night shift - a way-out guy who's been a Hauraki pirate and Radio Whakatane DJ. Lee announces with the lights out, standing up and dancing for the whole four hours while on the air - incredible!

The loud putt-putt over Christchurch these days is the Radio Avon coastline patrol - a bright red Tiger Moth biplane. What with no cockpit canopy, and old motor thrashing out the dbs, the wind whipping by at 60.mp.h. and reports made via a Tait Miniphone, the quality of airborne reports has to be heard to be believed.

The Avon jingles may have a familiar ring (or is it jing) to Radio Windy listeners - they are made by the same American company.

After six months operation indications are that Radio Avon looks set to follow Radio Hauraki and I as a financially successful and commercially popular radio station.

CONGESTION IN EUROPE

The severe problem of congestion is evident in Europe with many broadcasting stations finding that their signals are being difficult to hear even in their prime target areas because of the proliferation of other stations on the same frequency. Since the 1947 Copenhagen conference on frequency allocation many new stations have appeared and powers have increased considerably, bringing with them severe after-dark interference when the skywave is prevalent. TURN TO PAGE 14.

AMERICAN SAMOA. Due to the current power shortage, Radio Station WVUV 1120kHz has been going off the air at night because neighbours have objected to the noise of the auxiliary generator, brought in when the mains power fails. As a protest, the station has been stoned, fuel to the generator turned off, cars of personnel damaged and staff members attacked! Pacific Islands Monthly 7/74

GUAM. New station on 540kHz at Agana has been granted the call KATB. Another new Agana-based station on 720 has requested KMAI. Trans World Radio's new station will have the call KTWR on medium wave - 10kw on 770. NRC "DX News"

NORTH KOREA. "Pyongyang Pangsong" is the identification of the network using 655, 687, 735kHz. "Chosong Chunyang Pangsong" operates on 625, 635, 695, 725, 785, 817 and 877kHz. Pangsong means broadcasting. JSWC

PORTUGUESE TIMOR. According to announcements by the station, they are now on 1560kHz in parallel to SW from 2300 to 1500 GMT. Power is unknown but probably quite low. WRB via NRC

NEW ZEALAND. 2YM Palmerston Nth is due on air late this year. Radio waikato 930 has been granted permission to delay establishing its Thames repeater till April next year. Plans for a King Country repeater have been scrapped. "Tune In"

DIEGO GARCIA. (Indian Ocean) A 50 watt AFRTS station is operating on 1475kHz. Victor Goonetilleke of UADX.

AUSTRALIA. The ABC has put into service 2 new stations - 6WH Wyndham 1020kHz and 6KN Kununurra 760kHz with power of 130 watts and restricted antennas. Ultimately higher powered transmitters and proper antennas will be installed. Cyril Anderson ADXN

HAWAII. KPUA 970 has applied for move to 670kHz with 5kw, cancelling an earlier application for 620. NRC "DX News"

MIDDLE EAST. Odds & Ends...Lebanon has a 1500kw MW transmitter under construction with the cooperation of ORTF. (Sunspot). 634 is new 400kw tx at Bobab Iran. Tartus, Syria with 60kw now on 1069. Sanaa, Yemen now on 1201. Unidentified Libya on 1448. Tripoli still on 1454 at similar strength. Qatar is 50 kw on 674. A 750kw tx is planned for 952kHz. (All EBU via NRC). Iraq is now on 615 ex 610. Jerusalem, Israel has moved back to 677 from 674. Jordan has two 1200kw transmitters under construction. (All MW Circle via NRC). Kuwait on 1133 now has English from 1700 to 2000 GMT directed to South Asia. (NRC).

Broadcast Band news from Canada and the Americas

CAN-AM REPORT



ALASKA. KOTZ Kotzebue 5kw run by Alaska Education Commission, Kotzebue, Alaska 99752. Cassidy Broadcasting has a CP for 600kHz 1kw U2 from North Pole. Mt Susitina Broadcasting Corp has CP for 1080kHz 10kw U1 from Anchorage, Alaska 99501. NRC "DX News"

DOMINICA. ZGBC Gospel Broadcasting Corp. was due to open in July on 1060kHz. FJD2 the Voice of St. Maarten 1295kHz now has the slogan - "The New Two". FDXCI "Sunspot"

CANADA. CHIC Ontario 790 has been granted 5kw day & night. An application is in for 1280kHz 10kw U3 for Calgary, Alberta. NRC "DX News"

USA. 600 KINC Independence, Calif has CP. 1110 KRLA may have new call KIGI.
850 KEYX Houston has CP ex KGGH. 1150 KPNG Texas granted KSUZ call.
970 KTAP Texas seeks KIXL call. 1190 KADE Colorado is on the air.
1010 KSAY Calif is now KIQL. 1380 KKZZ Lancaster ex KBVM.
1020 KSW3 N.M. requesting 50kw U again. 1410 WRCK Alabama granted WZZA. NRC

FROM HEADQUARTERS

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NZRDXL COUNTRIES LIST - UPDATE

Please make the following amendments to your copy of the new League Countries Listing. In due course a printed addenda will be sent to all members.

AFRICA

Morocco Spanish Territory (Ceuta-Melilla)

ADD words - 'one country'.

ASIA

ADD BRUNEI BC points 41 SW points 23

MOVE SOUTHERN YEMEN to extinct list and add

YEMEN DEMOCRATIC REPUBLIC (ADEN) instead, with the same points.

Cambodia. Amend wording to read-

(Also known as Khmer Republic)

USSR R.S.F.S.R. (East of Urals) ADD/CORRECT

wording to (Same country as RSFSR West of Urals, listed under Europe)

EUROPE

ADD NORWAY BC points 108 SW points 57

AMEND Turkey wording to read -

(West of Dardenelles)

SOUTH AMERICA

Netherlands Antilles (Curacao, Aruba, Bonaire)

ADD wording - (Separate Countries)

OCEANIA

ADD GILBERT & ELLICE IS. BC points 40 SW 26

ANTARCTICA

McMurdo Sound - points for SW to be advised.

UNBEATABLE OFFER!

Until 30 September 1974 ONLY, the attractive NZRDXL pennant will sell at a special reduced price to members...

20 cents each, regardless of quantity.

Compare this with the normal price of 40 cents each, and you'll agree it's a real bargain.

Order a quantity today for Christmas gifts to your favourite stations or to lure those hard-to-verify catches!

Add postage of 5 cents for orders up to \$1.00, 10 cents up to \$2.00, 15 cents up to \$3.00 etc.

Write, without delay to:

Stationery Secretary,

NZRDXL,

P.O. Box 1313,

INVERCARGILL.

DON'T MISS OUT!

25th Anniversary Contest Winners!

Congratulations to the following successful participants in the Contest celebrating the League's first 25 years - 1948 to 1973.

BROADCAST

Robin Chambers
Bryan Clark
Paul Frost
Ray Crawford
Neville Henry
Sutton Burtenshaw

SHORTWAVE

Nigel Robins
Jonathan Aitchison
Arthur Cushen
Bryan Clark
Harry Searle
Jack Searle
Paul Frost
Steven Greenyer
Ray Crawford
Dudley Carter
Lindsay Robinson
John Bathurst
Brian Gall
Errol Monson
Erin Ardley

Award Certificates are in the final stages of design and will be mailed after printing.

LEAGUE A.G.M.

Adcom advise the date and venue for the 1974 Annual General Meeting of the League is subject to change.

Official confirmation is not yet to hand (1100 11/8) but a toll from Graeme Shillito indicates-

VENUE: DUNEDIN

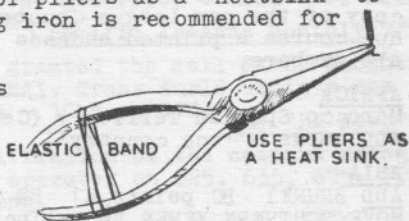
DATE: LABOUR WEEKEND
SATURDAY 26 OCTOBER.

DX Activity is proposed to follow the meeting. Will you be there?

SOLDERING. some advice.

....from GEORGE MASSON.

Whenever soldering near transistors, covered wires or other items likely effected by the 'heat', use a long nosed set of pliers as a 'heatsink' to carry away the heat. A 25 or 30 watt soldering iron is recommended for the projects featured in these articles. The bolt of the iron should be applied to the job for as short a time as possible. When circuits containing transistors don't work, the usual cause is an overheated transistor, damaged during soldering. Another occasion when a 'heatsink' proves valuable is when soldering coaxial cable to avoid damaging the plastic coating of the inner wire.

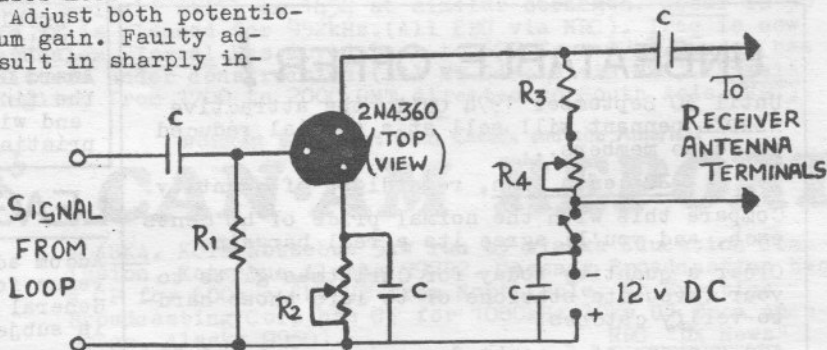


A MEDIUM WAVE LOOP BOOSTER.

Most modern transistorised receivers, both domestic and communications, leave a lot to be desired when operating on the Broadcast Band, having, at best, marginal sensitivity even though they may perform well on Shortwave. Connecting any type of longwire of 60ft or more usually results in lots of spurious harmonics, images, 'birdies', etc. Usually a good valve set, communications or early domestic vintage proves satisfactory. A good BCB loop antenna solves most of these problems, except the lack of sensitivity, which in fact may be even more obvious as the impedance of the loop is usually quite different to the aerial input impedance of most receivers. This is one of the reasons why the gain of a loop seems to be lower than that of, say, a 200 feet longwire.

If you need more gain from your loop, try making this very simple booster. This corrects the mismatch and should result in a worthwhile signal gain. The booster uses one FET 2N4360. Construct inside a metal box, keep all connections as SHORT as possible, keep input leads well away from output leads and DON'T overheat the transistor. Always switch off the battery when not in use as even one FET uses more current than you would think! Adjust both potentiometers for maximum gain. Faulty adjustment will result in sharply increased transistor noise.

GEORGE
MASSON



C = 0.01 mfd 100 volts or greater, capacitors.
R1 = 100,000 ohms, $\frac{1}{2}$ watt or greater.
R2 = 1,000 ohm potentiometer $\frac{1}{2}$ watt or greater.
R3 = 300 ohms. R4 = 1,000 ohm potentiometer.
FAIRCHILD 2N4360

LEAGUE LADDERS

Broadcast					Shortwave				
Division	Jun	Aug	Inc	Cnt	Division	Jun	Aug	Inc	Cnt
GOLD STAR (Over 1250)					GOLD STAR (Over 1250)				
Arthur Cushen	2146	2150	4		Arthur Cushen	4070	4087	17	
Keith Robinson	2017	2020	3		Dene Lynneberg	1823	1844	21	
Merv Branks	2016	2031	15		GOLD ACE (1001-1250)				
SILVER ACE (751-1000)					SILVER ACE (1001-1250)				
Ray Crawford	939	-	-		Ray Babbage	-	1150	-	
Eric McIntosh	844	855	11		Stan Larking	1106	1140	34	
ACE (501-750)					ACE (501-750)				
Robin Chambers	741	749	8		John Mainland	1100	1116	16	
Sutton Burtenshaw	698	707	9		Ray Crawford	1097	-	-	
Stan Larking	663	667	4		John Watson	1028	-	-	
Dene Lynneberg	630	631	1		SILVER ACE (750-1000)				
Graeme Shillito	594	598	4		Bryan Clark	973	976	3	
SENIOR (301-500)					SENIOR (301-500)				
David Ricquish	453	-	-		Brian Withers	896	930	34	
Paul Aronsen	391	397	6		John Durham	872	-	-	
Brian Withers	350	-	-		John Durham	756	798	42	
Ray Babbage	-	350	-		ACE (501-750)				
Chris Martin	302	-	-		Bill Huddleston	743	757	14	
INTERMEDIATE (151-300)					INTERMEDIATE (151-300)				
Bryan Clark	299	303	4		Erin Ardley	678	-	-	
Gordon Simes	231	-	-		Lindsay Robinson	618	636	18	
Arthur Williams	228	-	-		Eric McIntosh	573	575	2	
Tony King	219	219	0		SENIOR (301-500)				
Lindsay Robinson	179	180	1		Jack Searle	473	500	27	
Sinclair Bennett	175	179	4		Paul Aronsen	472	476	4	
John Newman	161	-	-		John Hillier	447	-	-	
JUNIOR (51-150)					JUNIOR (51-150)				
Des Davey	146	-	-		Peter Herman	-	400	-	
Jack Searle	132	134	2		Des Davey	304	-	-	
Alan Robson	119	133	14		INTERMEDIATE (151-300)				
Paul Frost	110	119	9		Alan Robson	247	271	24	
Michael Smith	103	108	5		Tony King	233	235	2	
John Bathurst	91	-	-		Steven Greenyer	227	-	-	
Peter Jackson	73	87	14		Colin Campbell	220	-	-	
Jonathan Aitchison	69	78	9		John Bathurst	217	-	-	
NOVICE (1-50)					NOVICE (1-50)				
Gavin Bennett	-	47	-		John Newman	210	-	-	
Elizabeth Hellyer	42	45	3		Arthur Williams	207	-	-	
Andrew White	34	41	7		Murray Robson	207	-	-	
Bruce McGregor	-	34	-		Paul Frost	191	205	14	
Norman Clover	32	35	3		Jonathan Aitchison	151	180	29	
Philip Garden	25	-	-		JUNIOR (51-150)				
Chris Mackerell	24	-	-		Mike Smith	150	162	12	
Colin Campbell	18	-	-		Norman Clover	145	149	4	
<p>Welcome to new participants: Brian Moll- oy, Austin Hadler, Peter Greener, Bruce McGregor & Gavin Bennett and a welcome return to Ray Babbage & Peter Herman! Congrats to Jack Searle on his half- century, Peter Herman on reaching 400.</p>					NOVICE (1-50)				
					NOVICE (1-50)				
					NOVICE (1-50)				
					NOVICE (1-50)				
					NOVICE (1-50)				
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					NOVICE (1-50)				
					NOVICE (1-50)				

Extended Ladder As intimated earlier, the publication of the League's new Countries List is an opportune time to expand the Ladders by addition of a column showing your total of countries verified. So, get counting and let's see a good turnout for the October Ladder. We've a column waiting to be filled! '73 till then, BC

WRITING A RECEPTION REPORT.

Every member will have his own opinions and methods of writing reception reports to stations, and one is always learning of ways to make a report more useful and more interesting to the recipient.

Some years ago the Times held a Reception Report Writing Competition and we reproduce one of the winning entries here. Most will agree that how one goes about it is a personal thing, but you may find the following helpful. How do you compare?

NEW ZEALAND



RADIO DX LEAGUE

OFFICIAL ORGAN: THE N.Z. DX TIMES

PLEASE REPLY TO

W.R.Chambers,
Te Namu Road,
Opunake, R.D. 31,
Taranaki, New Zealand.
25th. October, 1969.

The Chief Engineer,
Radio Station WVUV,
Pago Pago,
(American) Samoa.

Dear sir,

It is with very great pleasure that I report on reception of your station WVUV Pago Pago heard operating on 1120 kilohertz from 8.00pm until 8.15pm Samoan Time on the 24th. October, 1969 Your Date:

Details of your Transmission Were As Follows:

<u>Samoan Time</u>	<u>Items / Announcements Heard</u>	<u>R</u>	<u>S</u>
8.00pm	Ukelele or possibly Guitar playing. Choir singing in Samoan to accompaniment of Ukelele	4	4-5
8.01½"	Another Recording-Ukelele's playing again.	"	"
8.02½"	Choir singing in Native(Samoan) language	"	"
8.04 "	Ukelele's playing then Choir singing again.	5	6-7
8.05 "	Man singing in English with Island accent.	"	"
8.05½"	Male Announcer in English--"You are listening to 'Music of Samoa'. Songs by George Bayaonga and the Choir of the villages Le Loa Loa(?) .We have just received a telephone call requesting a message for Edward Taupolo of Anu'u Edward Tapolo has been asked to please send over the beat at 10 o'clock tonight to Oahu. Message is signed----and a little earlier this evening we had word that the daughter of one of the people who have recorded some Samoan music for us in the very recent past is having a birthday today. And so we would like to dedicate some of the Hellenic Choirs song to Eleanor whose Birthday is today. Now we--Music of Samoa---George-"Lei-lo-aloha"(Choir) Guitars playing QSB.	"	"
8.06 "	Ukelele's playing again Strong signal again.	3	4-5
8.09 "	String instrument-strummed-joined by Orchestra	5	5-7
8.11 "	Man singing in Samoan QSB. QRM From Heterodyne	4	5-5
	Singing also in English--"Aloha--my happiness"--	2	3-4
8.12½"	Another record-Guitars(or Ukelele's plucked/strummed & playing the melody 'Pearly Shells'.	3	3-5
		5	6-7
8.14 "	Choir singing with Orchestra in Samoan	"	"

CONTINUED ON NEXT PAGE.

Interference Occasional bursts of light ning static(QRM)
Receiver Hammarlund HQ-I29-X
Aerial Total Length 280' Height 25-45' Direction Due South
Weather Mainly fine & cool but with occasional light showers.
 Moderate to fresh Westerly winds
Barometer IOIO millibars General Weather condx. A low pressure
 system is situated to the South of New Zealand

Pressures are high over Eastern Australia.

Location of Receiver-Aerials I mile inland from Opunake which is 38 miles South By road from New Plymouth on the West Coast of the North Island.

Your signal here in the evenings is often quite strong.Strong enough to make for enjoyable listening.Your signal although of very good strength is not as strong as that of ZCO Nukualofa,Tonga on IO20 kilocycles.Perhaps your signal is not beamed in this general direction?

I've greatly enjoyed your programme of Samoan Music & look forward to hearing you often in the future.

May I ask would you kindly please check this Reception Report against your Station Log? And if you find it correct in detail may I please have your confirmation or Verification?

Every best wish to you & your staff at WVUV.May all your regular listeners always enjoy good reception. Kind regards.

Yours sincerely,

Robin Chambers

Parl ez vous Francais?

In the April 1974 Times, we published a Spanish letter, prepared by Chris Davis to be used as a "base" in writing to Latin American broadcasters. Already we have heard of several members QSLing their first Latins with it's help!

Another member, Stuart Forsyth, prepared a similar basic French letter for a report to Radio Noumea and received a prompt QSL for his efforts. Of course you'll need a dictionary or knowledge of the language to fill the gaps and programme detail information. Thanks to Stuart for his contribution.

Le Directeur de Radio.....
 Monsieur,

J'ai grand plaisir de vous envoyer le rapport de reception suivant et j'esp re que vous pourrez confirmer que mon rapport est exact. Si vous pouvez, me permettez d'avoir une carte ou lettre de v rification en r ponse   cette lettre si'l vous pla t.

J'ai re u votre station surde...de..., sur une fr quence de...kiloHertz. La force du signal..... Bruits parasites.....
 D tails du programme.....

Je m'attend   vous  coutez de bient t. J'esp re que j'aurai le plaisir d' couter votre station encore et pourrai vous envoyez un autre rapport   l'avenir. Je vous prie d'agr er mes salutations empressees,

Translation: Sir, I have great pleasure in sending you the following reception report and I hope that you will be able to confirm it. If you are able to, would you please send me a card or letter in reply to this letter.

I received your station on the...of...(date), on ...kiloHertz. Signal Strength. Interference.... Programme Details..... I hope to hear from you soon and hope I will have the pleasure of listening to your station again and will be able to send another report in the future. I remain, yours sincerely.....

Shortwave Mailbag

Highlights this month :

Alan Robson reports a cyclostyled QSL in Chinese from the Peoples' Liberation Army Radio on 5170 khz in response to an English letter with two IRC's. Lindsay Robinson, Arthur Cushen and Dene Lynneberg all have verified Aden in the Yemen on the recently introduced channel of 7190 khz. Mike Smith, Dene, and Arthur also report some good Latin American verifications. Now let's look at the mailbag -

TONY MARR, Wellington has a QSL from Burma 4725 (Country 185)

HARRY SEARLE, Haumoana has QSL's from Vatican 15200 11740 RGI 9655 6135 WYFR 15215 Brasilia 15245 RA Shepp 9760 Lyn 9730 11730 RN Lopik 9715 KGEI 9520 9505 Moscow 12020 7165 Israel 9785 DW Koln 9700 11850 VOA Tinang 15290 Dixon 17895 P&P 21600 AIR 9755 DZF3 15385 Sofia 9700 DW Julich 6010.

NORMAN CLOVER, Hamilton has QSL's from Canada 9655 Bucharest 6190 AIR 15205 SBC 15305. Not far from 150 now Norman.

BRUCE MCGREGOR, Feilding has QSL's from HCJB 6130 RN 9715 RBI 11890 AFRTS 11790 Bucharest 11940 RGI 5970 Vatican 9615. VOVietnam 15012 AIR 9912. Logs are submitted in Bandwatch format please.

ANDREW WHITE, Christchurch has 'em from SBC 15305 Cuba 15140 Prague 9740.

HARRY WEATHERLEY, Melbourne has QSL's from Clarin 4850 Havana 11715 Finland 15185 Portugal 15315.

DENE LYNNEBERG, Titahi Bay has 13 out and QSL's from Riyadh 9610 11890 21510 21635 Rawalpindi 4835 SWF Rohrdorf 7265 SBC Sottens 17840 Aden 11770 7190 KGEI 9520 R. Tropical Tarapoto 4935 Luz y Vida 4826 Clarin 4850 RBI 7260 RA Bris 11885.

STEVEN GREENYER, Invercargill has QSL's from DW 9650 and 6075. Prague '6055.

JOHN MAINLAND, Wellington. RSA 4875 WYFR 9555 DW-Werch 5955 9620 CBC-S 9480 Vila 7260 KGEI 15175 Jerusalem 12025.

BRYAN CLARK, Wellington has twelve out and QSL's in from Montreal 6140 Cameroons 4972 Johannesburg 3955 and AFAN McMurdo 6012 !

BILL HUDDLESTON, Auckland awaiting a Barlow Wadley has veries back from Israel 10250 DW wercl: 17800 Vatican 11705 RA Dar 15355 RN Bon 9590 Spain 15145 BBC 5975 RSA 17805 Peking 9600 Tashkent 9600 Bucharest 5990.

TONY MAGON, Waiouru has veries from CFRX CKZU.

BARRY WILLIAMS Auckland has QSL's from Israel 15100 9495 Tashkent 6025 9540 TWR Bonaire 9760. Good to hear from you Barry.

KEITH ROGERS, Lower Hutthas veries from DW Julich 11810 Prague 6055 TWR Antilles 9535 Aden 7190. Sorry ladder entry too late Keith.

BOB BOUNDY, Christchurch has QSL's from Radio New Ireland 2428 Santa Fe 4965 Prague 11855 Bucharest 11940 Nederland 11730 15425 AIR 17775 DW 17780 Sofia 31mb Moscow 13mb. I hope you're OK now Bob.

ALAN ROBSON, Christchurch has QSL's from Peoples' Liberation Army 5170 IBA 12000 7395 10250 15100 DW Julich 11810 UN Greenville 9530 RN Mad 7285 Canada 15325 Budapest 6000 NHK 15410 VLW15 Liberty Spain 9750 FEN 3910.

AUSTIN HADLER, Christchurch has QSL's from RA 11 freqs Norway 15175 9645 11860 Japan 11875 15195 15235 Poland 9675 DW 11850 Israel 11725 Austria 6155 Canada 9625 6125 Roman -ia 11940 Taiwan 17780 Chile 15150 Vietnam 7038 Prague 5 freqs Peking 15435 RSA 15155 15220 Albania 9510 SBC 9590 15305 Burma 5040 Vatican 11740 TWR Monaco 7105 Belgium 11855 Egypt 9475 Moscow 7350 9660 RBI 11870 11975 Ned 15420 9715 FEBC 11920 Kuwait 15345 BEC 7150 HCJB 9745 ETLF 11815. Welcome Austin.

JONATHAN AITCHISON, Dunedin has logged 10 and collected QSL's from FEBC 21515 Portugal 11840 VLT9 DW 11850 Prague 11855 9505 Israel 7395 RBI 9500 Tashkent 11925 Brasil 15245 Austria 9650.

RAY BABBAGE, Wellington has QSL's from Israel 11725 Melbourne 11850 11730 Holland 6165 VOA Munich 3980 Sabah 5980 OAS 11740 Koln 9615 Togo 5047 Tashkent 9600 Madrid 9530 Morobe 3220 Karachi 17935.

PETER GREENER, Auckland has QSL's from Solomons 3995 Romania 11940 15250 RSA 11900 RA Shepp 7180 Dar 21485 Portugal 17880 11935 HGJB 9745 ABC 4920 RCI 17820 15235 Austria 9770 Finland 11755 RAI 11905 RNZ 9540 6080 FEBC 11890 Poland 9675 Peking 9460 AIR 11775.

ARTHUR CUSHEN, Invercargill has verified RBI 11785 CBC 6135 Madrid 11860 TWR Bonaire 11895 KGEI 9505 Progreso 5060 Sarawak 5005 Clarin 4850 RA Shep 21455 RA Lyn 17700 Shep 15185.

MIKE SMITH, Matamata has QSL'd Israel 9665 AFRTS 6110 Austria 9770 RNZ 9750 Prague 21700 Yarcay 4940 Barquisimeto 4990 AFNT Taiwan 3990 Tashkent 11730 HCERP5 3985 KGEI 9520 Thai Met 7863. No idea as to your unidentified.

IAN WELLS, Milton has one from Prague 6055.

JACK FARROW, Lower Hutt has 11 reports out and QSL's from VLM4 DW 6085 6145 BBC 9510 9750 Prague 11855 VOA 15205 RA 21485.

ERROL MONSON, Timaru has QSL's from SBC 5980 KGEI 9520 Cuba 9525 Canada 9655 INRA 9670 Poland 9675 Kuwait 15345

BRIAN MOLLOY, Auckland has QSL's in from RA 14 freqs RNZ 9540 Moscow 11770 HGJB 9745 11915 Japan 17880 15105 Kuwait 9715.

CECIL SYMMES, Wellington has received the following QSL's: AFRTS 6045 RCI 5970 9645 DW 6190 9775 11830 17845 RN 9715 SBC 9590 HGJB 9755 Peking 9460 15135 BBC 9660 11750 15320 ABC 11710 Norway 11850 Portugal 11885 Japan 11875 Moscow 12075 AIR 15205 RA Perth 15425 Japan 17880 RA 17825 Bandwatch layout is OK Cecil. For QSL's, only the station and frequency is required. To save space duplication please group countries or stations in one block.e.g. all RA's together etc.

LINDSAY ROBINSON, Invercargill has QSL's from RNE 11775 Prague 11855 KGEI 9615 DW-Werch 11850 DW-Julich 15225 Lagos 15185 RSA 11900 VOA Rhodes 7205 9685 6190 HJAE 4965 Conakry 7125 Aden 7190 (90th country).

PAUL RAWDON, Lower Hutt has 17 out this month and QSL's in from HGJB 9745 VOP 9580 Prague 11990 Tashkent 11925 4VEH 11835 FEBC 2245 6030 11890 Poland 7285.

BOB SAINTY, Auckland has a QSL from RNE 15145. Would you please indicate all times in GMT for Bandwatch listings. 13

NEVILLE HENRY, from Wellington has verified CHNX 6130. Re local meeting refer to Times Branches section.

PHILIP GARDEN, Dunedin has nine reports out and a QSL from AFRTS 21500. Thanks Phil.

HANS DE JONG, Tasmania has QSL's in from BBC Dav 3975 Skelton 9750 11770 UK 17715 Skelton 21610 Singapore 5010 VOA Green 6015 Dixon 21745 HGJB 6085 Peking 9460 KGEI 9585 Berne 9635 11765 TWR Bonaire 9760 15350 ORTF Allouis 11735 VOA Tinang 17740 Moscow 7 freqs Oslo 11860 Espana Ind 12140 Canada 15092 DW Julich 15135 15320 Stockholm 15240 Pakistan Islamabad 17830 Karachi 17935 Islamabad 21730 Peking 11685.

NIGEL GREENE, Paremata has 18 reports out and QSL's from Sofia 9700 TWR Mon 7100 Bon 15320 RNE 11925 11775 6065 ORF 7250 RA 7 freqs Korea 11925 Jeddah 11855 Berne 5980 11715 15430 Tashkent 9600 RTB-BRT 11895 VLW15 15425 BBC 5975 9825 Israel 7395 HGJB 11915 Moscow 7200 7400 Pakistan 15205 NHK 11940 Peking 11695 ETLF 11860 SEIT 9670 Adventist Radio 9670 Budapest 11910. The country would be counted as Cyprus.

PHILIP BROOKS, Wanganui has QSL's from Bonaire 9715 and BHK 11875.

LANCE ANDREWES, Dunedin has QSL's from Spain 11925 DW 7105 VOA 21695 BBC 4 freqs ORTF 11710 RBI 11840 SBC 11715.

STAN LARKING, Whakatane has 14 out and QSL's from Paris 7135 Prague 21700 7345 Lara 4800 Blantyre 3380 DW Kigali 21540 Werch 17800 Julich 21580 RFE 9695 7145 CBC Daventry 7235 AIR Delhi 15190 Bucharest 7225 11940 Rome 5990 Havana 11840 SBC Berne 17830 HGJB 6130 Ankara 9515 Luz y Vida 4825.

DES DAVEY, Te Kuiti has verifies from Koln 9765 11785 6085 Chile 15150 Ned^Bon 9715 Israel 7095 CBC 5970 VQ04 FEN Tok 3910 Bucharest 9690.

JOHN DURHAM, Meremere has QSL's from VOA Dixon 11865 Moscow 15420 ORF Vienna 9650 KGEI 9520 9615 Prague 17840 6055 DW Sines 9765 Tashkent 6040 RA Shepp 7180 Budapest 6000 Chad 4904 SBC 5980 RFE 7190 Vatican 11845.

BEST OF THE MONTH

UNDER 9 MHZ: CHNX 6130 khz 500 watts
Neville Henry.

OVER 9 MHZ: Nigeria, 15185, 100kw
Lindsay Robinson.

STATION OF THE MONTH

Two stations feature this month - Deutsche Welle's new relay base in Malta, and Radio Clarin in the Dominican Republic which gives regular reception on 4850 khz in our evenings. Thanks to Chris Davis for the Clarin item.

Test transmissions have commenced from the Deutsche Welle relay station at Cyclops in southeastern Malta. The transmissions were noted in Wellington early in August and appear to be giving satisfactory reception on most channels. The identification in English from Malta is worded as follows: "This is Radio Deutsche Welle relay station Malta with test transmissions. We would like to receive your listening reports." This announcement is by a male announcer and is preceded by a similar announcement in German. It is expected that Deutsche Welle will acknowledge reports with a special QSL. Send Reports to Deutsche Welle, Postfach 100444, 5 KOLN 1, West Germany.

Radio Clarin commenced operations in 1970 on AM and FM, and later in May 1974 inaugurated transmissions on two shortwave frequencies. The transmissions of Radio Clarin originate from studios in Avenida Mexico Extension in Santo Domingo using three studios and two control rooms. The transmitters are installed at Haras Nacionales. In addition Radio Clarin's company, Difusora Hemisferio S.A, owns recording studios, a newspaper, blocks of offices, and mobile units capable of servicing all parts of the country. Radio Clarin employees 40 people.

Frequencies used by Radio Clarin are: 860 khz with 50,000 watts, 105.5 Mhz FM with 5 kw, 4850 khz with 3 kw, and 11700 with 50 kw. The FM transmitter is installed in the central highlands at an elevation of 2834 metres above sea level, with the antenna being the highest in Central America. On all frequencies but 11700 khz, transmissions are uninterrupted 24 hours a day - except on Sundays when the close down is 0200 GMT. 11700 kcs is used only for ten hours a day (when we don't appear to be able to hear them). Radio Clarin acknowledges DXreports over the air on Fridays at 0030 GMT in a programme 'Clarin International.'

DXCURSION

23 people including three married couples have indicated their interest in our escapade to Australia in March next year. Plans are well advanced, with suggestions for functions and events coming from DXers in Sydney and Melbourne, and Radio Australia's Keith Glover. 2AY in Albury is geared for our arrival - and members who registered earlier have already received 'goodies' mailed in Sydney. If you'd like to join us - register NOW!

CONGESTION IN EUROPE - continued

A conference to air the problem is to be held shortly and two major changes are predicated. Firstly the channel spacing or station separation, and secondly a geographical rearrangement of stations operating on the same frequency. No worldwide standard of station spacing exists and while we are familiar with 40 khz separation as used in North America, the Pacific and parts of Asia, 9 khz spacing is common in Europe and Africa. Technical improvements in receiver design will allow stations to operate closer together and if a spacing of 8 khz is adopted an additional 136 channels will become available.

Another solution is that where stations share a common frequency they should be at least 1300 miles apart. If this is adopted and the stations are placed in a triangle pattern of locations a reduction in interference would result. This idea has been introduced in Africa and is proving a satisfactory answer to the problem of congested air waves.

ARTHUR CUSHEN



SW BANDWATCH

15



Dene Lynneberg was the first League member to observe an experimental transmission from the American Forces Antarctic Network at McMurdo Station on 6012kHz.

Deutsche Welle has introduced transmissions from the Malta Relay Station, where it is understood two 250kw transmitters are being used. Radio Cairo has appeared

on some new frequencies, including 11715, 11785 and 15335kHz. Favourable Latin American and African reception continues in the tropical broadcast bands. To the listings for August..... (+ indicates an overseas contributor)

ALL TIMES G.M.T. (12 hours behind N.Z.T.) FREQUENCIES IN KILOHERTZ.

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITIALS
2450+	1130	INDONESIA	RRI Jakarta	has Metropolitan Programme in EE till 1200. This formerly only a 10 min segment.	CT
3225	1100	VENEZUELA	YVTC Radio Occidente	fair with ident in SS.	PG
3250	1300	INDONESIA	RRI Bandjarmasin	good copy with full identification.	TM
3250	0515	SOUTH AFRICA	SABC Home Service	fair copy. Also noted on 3285.	TM
3255	0925	BRAZIL	Radio Clube de Marilia	fair. Ident after each record.	SL
3265	0900	BRAZIL	Riberao Preto	with Nx in PP, fair but severe het.	SL
3300+	1957	BURUNDI	Radio Burundi	with Jazz mx. Nx in FF at 2202. Good.	HW
3360	1200	PAPUA-NEW GUINEA	Radio Milne Bay	very good in EE.	PGR
3366	0548	GHANA	Accra	fair with music until news at 0600.	SG
3380	1930	MALAWI	Blantyre	with African Mx & local lang. Very good after 2000 in EE. TMn. 2016 pops & EE good. HW+ 2143 pop session, v.g. DW+	DW+
3390	1018	ECUADOR	Radio Zaracay	with popular music.	AC
3395	1007	VENEZUELA	Radio Universidad, Merida	fair with frequent ident. 1020 popular music.	SG AC
3910	0945	JAPAN	Far East Network, Tokyo	good with pops.	GS
3925	1045	JAPAN	JOZ Nihon SW Broadcasters	with EE language lessons.	GS
3938	0646	UNIDENTIFIED		with uninterrupted light & heavy classical mx. First noted 4/7 at VG level till s/off at 0739 with brief FF anct like "Ici Radio Australie" or "Ici Radio Oceanie". Also noted 5/7 from 0757 s/on till off 0855 and 6/7 0700 till s/off 0745. Has orchestral interval signal. Pacific locale presumed. BC	DL
3945	0550	NEW HEBRIDES	Port Vila	good with "Goon Show" one Monday. Also noted this time Friday - extended sked? BC. 0750 EE good.	JA
3955	0448	SOUTH AFRICA	SABC Johannesburg	good in Afrikaans with Nx. 0500 Mx prgm. DL QSL in 13 days. 3965 in EE and 3980 Springbok Radio also audible one day at this time. BC 3955 & 3965 fair 0515.	TM
3970	2030	WEST GERMANY	DW Cologne	first noted with test Tx in German 6/7. Fair signal. BC 2029 fair via short path, still audible 2130. DL AC	AC
3995	2020	ITALY	RAI Rome	good with relay of Home Service in Italian.	BC
4066+	1030	WEST IRIAN/INDONESIA	Merauke	with local Mx. Ident 1058.	DW
4125a	1415	NORTH KOREA?	Voice of the Revolutionary Party	in EE.	EM
4680	0437	ECUADOR	Radio Nacional Espejo	fair with SS music.	PG
4755	0430	BOLIVIA	CP62 R.Em Bolivia	fair with Mx prgm in SS.	JA
4770	1845	LIBERIA	ELWA	good at this time. 3227 sometimes hrd in //.	BW
4770	1010	VENEZUELA	Radio Bolivar	fair with advts and chimes.	SG
4810+	1430	BURMA	Rangoon	with EE prgm. Nx at 1445. Possibly 50kw. SampathUDX	UDX
4820	0700	GAMBIA	Banjul	fair with BBC Nx but mixed Argentinian Utility.	BC
4820	0458	ANGOLA	CR6RZ	s/on with int. sig of 9 or 10 notes on xylophone type instrument. Peaked to fair 1/7.	TMn
4820	0430	HONDURAS	HRVC "The Evangelical Voice of Honduras"	fair with full EE s/off, stating that all requests for confirmation require 3 IRCs and some programme details.	BC
4845	1915	MAURITANIA		with local mx. 1928 Id in FF "Ici Nouakchott" & Nx.	TMn
4850+	0634	DOMINICAN REP.	Radio Clarin	with English anct giving full id, frequencies & address - P.O.Box 205-2, Santo Domingo. HW.0015.	CT
4855	1219	INDONESIA	RRI Palembang	good copy with identification.	TM

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITIALS
4865+	0650	COLOMBIA	La Voz de Cinaruco	logged with football match replay.	HW
4871	1120	INDONESIA	RRI Sorong	only fair copy due RTTY QRM.	TM
4875	0440	SOUTH AFRICA	Radio RSA	fair in Lozi. PG. 0435 very strong.	TM
4890	1945	PAPUA-NEW GUINEA	Port Moresby	with tuning signal & id as "The Happy Station". Also hrd 0630 mixed senegal. BW. 1005 good in EE. CS	BC
4904	1900	CHAD	Ndjamana	good in FF. Regularly the best morning African. 1831 News Headlines in FF, fair.	HW+
4910+	2330	VENEZUELA	Radio Carora	with SS songs, advts & anncts. Also at 2355 Radio Coro noted with similar programming on 4950.	CT
4915	0650	GHANA	Radio Ghana	very good 26/7 with native songs & few anncts. Via Americas. Best strength ever heard.	DL
4915	0938	BRAZIL	Unid	with prgm of EE pops & PP anncts. Fair, poor modulat-	ion.
4923½	0405	ECUADOR	HCQR1	fair in SS with ident as "Escuche Radio Quito, la Voz de la Capital". Prgm of Latin & EE music.	BC
4926	0510	ECUATORIAL GUINEA	Radio Ecuatorial, Bata	with prgm of native songs & id in SS at 0522. Fairly good. 26/7. DL TM	DL
4970	0450	VENEZUELA	Radio Rumbos	Caracas good with Latin Mx & id. On late?	DL
4980	0630	GHANA	Ejura	with Commercial Service. Also 3366 weak 0700. BW. 2215 fair in Vernaculars with Pop Mx. QRM frm Flying Doctor!	DW+
4985	0510	ANGOLA	CR6RB	Radio Ecclesia with religious prgm. Id with background mx 0515 then talk. Peaking fair, fadeout 0525 1/7. TMn	DL
4990	1900	NIGERIA	Lagos	with EE Nx. BW. 0553 indigenous mx & songs, good.	DL
5010	0430	PERU	Radio Eco	fair till s/off 0450 with echoing id in SS.	JA
5010	1900	CAMEROUNS	Radio Garoua	with FF nx.	BW
5020	0530	NIGER	Niamey	s/on with Band Mx & id in FF followed by short Koran reading then indigenous mx. Fair but noisy. 29/7. DL S/on occasionally audible but insufficient for a report yet!	BC
5030	0950	VENEZUELA	YVKM	Radio Continente good in SS. Plenty of Ids.	PG
5050+	1852	TANZANIA	Dar es Salaam	fair with African Music.	HW
5852½	1515	INDONESIA	RRI Pakanbaru	good in Indonesian but slight RTTY interference. Full id at 1545 and at s/off 1559.	DL
5955	0820	BRAZIL	Radio Gazeta	with ident 0830. Mx & sung commercials.	SL
5955	2140	MALTA	Deutsche Welle	testing with new 250kw tx. AC German prgm with occasional EE idents requesting reports. Very good. On 11865 in // poor. 15225 very good at s/off 0110. BC. Logged at 2220. Others logged-11865 at 2230; 15225 at 2303; 9745 at 0130; 6065 at 0440; 11705 at 1601; 7160 at 1802 and 9590 at 1803. First noted by Chris Davis. 11795 good at 2130 // 9625.	JM TM
5972	1100	HONDURAS	HRWW	opens with march & marimba music.	AC
5960	1117	USSR	Radio Moscow	poor in EE with nx, mailbag. HdJ+1141 in EE.	IW
5965	0345	BOLIVIA	Radio Nacional de Huanuni	fair till s/off 0358.	DL
5980	0600	MALI	Bamako	good at s/on with anthem & id "Ici Bamako, Radio-diffusion Nationale de Mali". Noted till 0730. New freq? Mali hrd on 5995 at fair level 25/7 thru VOA Greenville.	SG DL
5985	0620	PAPUA-NEW GUINEA	Rabaul	in local language till s/off 0645 poor. Id as "This is Radio Papua-New Guinea..." Noted 4/8.	JM
5995	0529	POLAND	Polish Radio Warsaw	fair with s/on 0530. Lang not identified. Listed 8kw by WRTVH & IFRB. Under VOA Greenville.	DL
6000	0505	HUNGARY	Budapest Internal Service	in Hungarian. Poor 4/8.	JM
6000	1145	SINGAPORE		fairly good over jamming with id in Chinese as - "Singapore po po tien tai" then news broadcast.	DL
6010+	0920	CANADA	CJCX	Sydney with EE pops & occasional anncts. Sports results. Very rapid fading. (But see 6012..Ed)	CT
6010	0900	PERU	OAX4V	Radio America good with all night prgm in SS.	BC
6012	See next page!!!			
6015+	1230	BANGLADESH	Dacca	7.5kw noted till 1600. Goonetilleke, Perera. UADX	DL
6015	0300	COLOMBIA	Radio Mira, Tumaco	fair in SS with many ids & advts.	DL
6025	0200	PORTUGAL	Lisbon	fair in English.	PG
6030	0845	USA	AFRTS Greenville/Bethany	fair. QRM NHK 0900. NG 1015 good.	CS

6012	0534	ANTARCTICA	American Forces Antarctic Network (AFAN) McMurdo Station fair level 21/7 with pop mx prgm & EE anncts. Many AFRTS & local jingles. Also announces FM 100mHz. DL Logged 0636-1030 21/7 except when blocked by VOA Greenville 6015 at 0715-0800. Prgm of popular light mx, interspersed with anncts. Weak & fluttery signal throughout. BC Variable level in period 0535-1115. Often very fluttery. TM T!!!!!!!!!!!!!!	
6060	0500	ARGENTINA	Buenos Aires poor reception in SS with ident. 0900 LRA31 Radio Nacional s/on with news. BW. 5/7 Peron Funeral	JM DL
6055	0713	PERU	Radio Continental. Arequipa good in SS. Freq ids & T/checks	DL
6065	2044	SWEDEN	Stockholm with "Saturday Show", good. PR Good to Far East.	JS
6070	0705	CANADA	CFRX poor with English programming 31/7.	JM
6075	0900	ECUADOR	HCJB s/on. Move from 6050. AC 6085 at 0606 good with Nx & cmt. JF 6085 at 0730 good but QRM Radio NZ 6080. PR 0830 p-f. HdJ	JM
6080	2015	SAUDI ARABIA	Riyadh fair signal in AA service.	JM
6095	0916	USA	AFRTS Delano fair-good NBC Nx. HdJ+ 1030 Exc with World Nx.	CS
6100	2200	YUGOSLAVIA	Radio Belgrade poor with news.	GS
6105	0350	COSTA RICA	Radio Universitaria sign-off 0358.	AC
6115	0523	CONGO	Brazzaville fair with Church Service in African lang. FF from 0532. BC. 0525 Prayer for Sunday morning. Tune out 0547	JM
6125	0620	COLOMBIA	Radio Continental good in SS with Todelar Network Ids	JA
6140	1900	GREECE	VOA Kavala good in Spanish. (Sked says beamed to USSR)	BM
6145	0435	WEST GERMANY	DW Cologne VG in EE to Nth America. JS Exc 0445.	NG
6160	1050	COLOMBIA	HJKJ Radio Nueva Granada/Radio Colombia. BW. 0930 almost continuous mx. Id at 1000.	SL
6160	0729	MOROCCO	VOA Tangiers with transmitter ident at s/off after Nx.	BC
6160	0843	CANADA	CKZN St Johns, Newfoundland fair with EE Breakfast Show. Frequent time checks in Atlantic Summer Time. CBC Nx & local id 0900 4/8. Must be more than 300 watts! BC 0900 fair though noisy with news, weather, sports and ident for CBN, 22/7. DL	DL
6175	1005	MALAYSIA	Kuala Lumpur good in Indonesian. PG. 1100 in Indonesian	
6180	0400	RUMANIA	Bucharest in EE to Nth America. Poor. New freq ex 6190/BW	
6185+	0230	MEXICO	XEDPM is new call for XEICM sked to 0300. Hauser NASWA	
6195	0910	CHILE	Voz de Chile in AA poor mixed BBC Tebrau. Also poor 0435	JM
6210	2020	INTERNATIONAL WATERS	Radio Nordsee good in EE. JA 0500 pops, fr.	JF
7050	2020	EGYPT	Cairo in Arabic, strength S9+!	JS
7120	2145	GREAT BRITAIN	BBC fair with requests. JF. CHINA Peking at 1500.	EM
7135	0527	FRANCE	ORTF Paris overall good in English.	LA
7275	0555	NIGERIA	NBC Lagos good some nights opening with drums. Nx 0600	SG
7285	0200	Polish Radio,	Warsaw good in EE.	PGr
7285+	0520	SOUTH AFRICA	SABC new freq in EE with Nx, talks, pops. Hagen NASWA	AR
7285	2300	MALAGASY REP.	Radio Nederland Relay. Good in Indonesian.	AR
7345	1530	CZECHOSLOVAKIA	Radio Prague with talk about DXing.	EM
8690	1815	NORTH VIETNAM	Hanoi with news. Good signal, very clear.	RS
9022	2200	IRAN	Teheran in English, fair. (New time?)	PGr
9410	1800	NORTH KOREA	Pyongyang opens in Russian, mixed BEC.	AC
9463m	2023	PAKISTAN	Rawalpindi with the World Service. S9+ signal.	JS
9480	0600	CANADA	RCI Montreal nx in EE & FF, good. JF Armed Forces prgm.	HdJ+
9505	1020	JAPAN	Radio Japan General Service in EE. Also 9515 EE Nx 1000	CS
9520	0730	UNITED STATES	KGEI Good with 'Golden Gate of Friendship'.	PR
9545	0730	SOLOMON ISLANDS	VQ09 with EE Request prgm. Pidgin Nx 0746. Fair but QRM later. Parallel to 3995 31/7.	JM
9562	0510	PERU	Radio Nacional del Peru good with Mx Show until VOA Greenville 9565 s/on 0528.	BC
9565	0520	RWANDA	Deutsche Welle Relay, Kigali in FF. Fair till VOA 0528.	BC
9550	2305	BELGIUM	Brussels with monthly DX Session. Very noisy.	RS
9570	0830	NETH. ANTILLES	TWR Bonaire fair in PP with RA Shepparton barely audible 24/7. Unusual reception!	JM
9620	0200	EAST GERMANY	RBI good in SS to Latin America //9645.	JM
9630	1800	GREECE	Athens opening with Greek transmission. Fair.	JM
9640	2355	SPAIN	Radio Nacional exc in SS with Mx prgm thru afternoon.	CS

FREQ	TIME	COUNTRY	STATION	PROGRAMME & RECEPTION DETAILS	INITIALS
9655	1054	THAILAND	Radio Thailand, Bangkok	vg with nx in EE 20/7, then pgm of Thai classical mx. DL. Id 1030 followed by Nx.	DW+ AC
9680	0900	ECUADOR	HCJB	opening, mixed with VLH9 Melbourne.	BM
9690	2033	PAKISTAN	Radio Pakistan	good with documentary prgm.	FG
9690	0030	UKRAINIAN SSR	Radio Kiev	good in English.	CS
9700	0405	BULGARIA	Radio Sofia,	news then choir mx - good. EE to Nth Am.	CS
9705+	0610	MEXICO	XERMA hrd	at this unusually late time 14/7.	CH
9705	0150	FRANCE	ORTF Paris	noted in SS to Latin America, good.	JM
9710+	0310	MAURITIUS		noted with FF songs & anncts & classical music.	CT
9710	2200	ITALY	Rome fair	with Nx in EE. GS good HW+ 0225 Italian good.	CS
9725	0430	SWITZERLAND	Berne	with World & Swiss Nx. DW+ 0500 good Italian	JF
9730	0145	EAST GERMANY	RBI	fair with Nx & Gmt in German.	JF/LA
9770	0505	GREECE	VOA Kavala	very good in EE. QRM Cologne 9765 from 0435.	NG
11375+	1144	CHINA	Radio Peking	good in Indonesian, later Russian. Also 11685 logged in EE at 1210. QSL has date/freq detail now.	HdJ
11600	0930	CHINA	Peking exc	with EE Nx. CS. 11695 strong in EE at 2055.	JS
11715+	2330	EGYPT	Cairo s/on	in unid lang on this new frequency.	CH
11725	1900	ISRAEL	Jerusalem	good in EE at this new time.	BM
11725+	0500	CUBA	Radio Havana	poor in EE to Nth Am. New freq mixed RFE.	CH
11730	1200	UZBEK SSR	Radio Tashkent	with Nx. Very poor due noise.	PR
11755	0120	SWEDEN	Stockholm	in Swedish till 0127. Sideband QRM BBC 11750.	AC
11755	2030	FINLAND	OIX8 Helsinki	good in EE to Europe.	GS
11775	0400	RUMANIA	Bucharest	moderate signal with Nx. QRM USSR bad.	CS
11775	1038	INDIA	All India Radio, Delhi	exc signals in EE.	CS
11785	0630	EGYPT	Cairo General Arabic	Prgm noted on this new freq 25/7.	JM
11789	0900	INDONESIA	Voice of Indonesia	fair in EE. Severe heterodyne.	PGR
11800	0045	CANARY ISLANDS	Radio Nacional de Espana	relay fair in SS.	AR
11810+	0530	ITALY	Rome s/on	in unid lang. Messed up by Algeria s/on 0600.	CH
11810	2005	POLAND	Warsaw	fair with EE to Africa.	JM
11815	0033	NETH. ANTILLES	Trans World Radio, Bonaire	with rlg prgm. Fair.	JF RS
11820	0500	MEXICO	XEBR	noted with SS anncts, time checks & pops. Koonan	ASWIC
11840+	0530	RUMANIA	Bucharest	in EE to Africa. New frequency.	CH
11845	0107	VATICAN	Vatican Radio	good with religious talk.	JF
11855	2225	BELGIUM	Brussels	in FF. EE at 2255, good but splatter RA.	JS
11855	2343	PHILIPPINES	FEBC DZH8	weak in EE. JS 11890 exc in EE 0850.	CS
11860+	2055	NORWAY	Oslo	fair-good in Norwegian with news talk.	HdJ
11890	0630	ALGERIA	Algiers FF Network	with Nx & Mx. New freq ex 11915.	JM
11900	0513	SOUTH AFRICA	Radio RSA	fair-good with full EE ident as Afrikaans prgm begins. NG 0615 poor with news. PR EE fair. Severe QSB.	LA
11930	0620	FRANCE	ORTF Overseas Svce	in FF fair. New freq ex 6095kHz. Also on 9585, 9620 & 11845 in //.	JM
11935	0420	PORTUGAL	Lisbon	very strong with documentary & local news.	RS
11955	0400	CYPRUS	BBC Cyprus	in EE till s/off 0430.	SG
15140	2000	WEST GERMANY	DW	fair in EE to West Africa. New freq ex 15150.	JM
15185	2010	USA	WINB Red Lion	fair with EE rlg prgm. Ident 2030.	JM
15200	2330	VATICAN	Vatican Radio	in PP to Brazil. Good to s/off 2355.	JS
15210	1830	LEBANON	Beirut	in EE. AA at 1900 till 2030. Ex 15200. Hagen NASWA	LA
15260	0852	SAUDI ARABIA	Riyadh	poor in AA till tune out 0938. New freq.	JM
15335	0045	EGYPT	Cairo	in SS to Latin Am. Nx at 0100. New freq // 9475.	JM
15345	0820	GREECE	Athens	in Greek to Australia. Mixed VOA Philippines.	JM
15405	0905	AUSTRALIA	RA Shepparton	100kw with Nx in EE. Moderate level.	CS
15435	0130	PHILIPPINES	FEBC	fair with EE rlg. Possibly new freq ex 15440.	JM
15440	2125	USA	WYFR Family Radio	poor with religious talk.	BM
15440	2245	LITHUANIAN SSR	Vilnius	fair in EE. Much harp music.	AR
17785	1220	MONGOLIA	Ulan Bator	interval signal, then News & talk in EE.	JM
21675	0713	AUSTRIA	Vienna	poor in GG to Australasia. Fair at s/on 0600.	BC

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from Aussie.

ARTHUR CUSHEN'S SHORTWAVE REVIEW

19

Latin American signals till dominate low frequency listening, while some interesting verifications from this part of the world have been received. The Deutsche Welle relay station on Malta is testing. It has been heard by Chris Davis on 11865 at 0120, while we have had excellent reception on 5955 at 2140. The complete schedule of the test transmissions in German are listed below.

ALL TIMES GMT

ALL FREQUENCIES KILOHERTZ

Germany. Deutsche Welle schedule of tests from Malta in German.
0120 - 0400 9745; 0120 - 0510 11865; 0440 - 0515 6065; 1600 - 1750 11705;
1600 - 1750 17875; 1800 - 1850 7160; 1800 - 1850 9590; 2140 - 2230 5955;
2140 - 2240 11865; 2300 - 0110 11865; 2300 - 0110 15225.

ANTIGUA. Deutsche Welle and the BBC plan to build relay bases on this Island using 250kw transmitters. No opening dates have been announced.

COLOMBIA Radio Nacional on 6030 opens at 0930 and is heard under AFRS and Radio Japan.

COSTA RICA Radio Universitaria on 6105 is being heard closing at 0358.

DENMARK Copenhagen has retimed its service to South America and is well received from 2200 - 2245 on 15165.

DOMINICAN REPUBLIC HIBB la Nueva Voz del Papagayo verifies with a letter which gives the station power as 400 watts and the frequency 5030 khz, according to a verification received by Chris Davis. The station operates 24 hours a day. The station address is: Apartado de Correos No. 2, La Romana, Republica Dominicana. Radio Clarin on 4850 operates 24 hours a day according to the verification letter received along with a pennant. The power is 3000 watts. The station also uses 11700 khz with 50 kw but this frequency is only on the air for ten hours a day.

ECUADOR Radio Nacional Progreso, Loja operating on 5060 khz uses a power of 10kw according to the verification letter. The station returned to me a tape recorded message, as well as a local coin and photo of the station. The station is heard to sign off at 0515.

HCJB has made the following frequency changes: 9710 is replaced by 9715 0830 - 0900 in Russian but is buried by Bonaire at this time. 9680 replaces 9715 for the period 0900 - 1100 but this is submerged by VLH9. 6050 has been replaced by 6075 for the period 0900 - 1100 and is mixed with Radio Sutatenza at 0900.

FINLAND Helsinki on 15185 is heard with English 2030 - 2100 and on Friday a magazine programme is heard.

GERMANY. DW is testing on 3970 and is heard opening at 2030. The programme is in German and the test transmissions scheduled are 0700 - 0910 and 2030 - 2240.

HONDURAS HRWW La Voz de Centro America 5972 opens at 1100 with a march and marimba music.

ISRAEL Due to the time change in Israel English is now heard 0400 - 0415; 1030 - 1100; and 1900 - 1945.

KOREA (North) Pyongyang on 9410 is heard at 1800 in Russian causing severe interference to the BBG. The full schedule is 1600 - 1700 and 1800 - 1900 on 6576 and 9410.

NORWAY Oslo, from 1 September will be broadcasting to the Pacific 0700 - 0830 on 11850, 11860, and 15175. 1100 - 1230 on 15175 21655 21730 and 25730.

PORTUGAL IBRA Radio on 9670 is heard up to 2100 on Thursdays. Asks for reports to Box 396 Stockholm Sweden.

SWEDEN Stockholm is heard on 11755 from 0000 - 0130, the frequency replacing 11805. Interference on 11755 is severe from the BBC on 11750.

sign off

INTERNATIONAL SERVICE is apparently in operation for the duration of the UN International Law of the Sea Conference (about 10 weeks) from Radio Nacional de Venezuela in Caracas. Programmes in English have been noted on YVRO 15390kHz & YVRN 11750kHz, at 2200hrs Monday-Friday GMT. English has also been observed between 0015 and 0130 GMT. Ken Zichi, ASWIC.

BEC ANTIGUA Relay Base is now in the final stages of planning and may be on the air from this Caribbean island by the end of 1975.

BEC World Radio Club

VOA OKINAWA. According to a report in the New York Times of 8 May, Japan has asked the VOA to close down its operations in Okinawa as soon as is possible. E.Urbelis NASWA

POWER BOOST IN NIGERIA. A new 250kw high frequency transmitter is currently being installed at Kaduna, for the NBC, according to a recent issue of 'Aerial', published by Marconi. It will be used for broadcasts to North Central State residents living overseas. David Morris ADXC

market square

FOR SALE: Trio 9R-59DS 10 valve communications receiver, as new. Continuous coverage & bandspread 550kHz-30MHz with Antenna Trimmer, S-meter, matching speaker, crystal calibrated circuit, voltage regulator tube, cathode follower oscillator circuit, operators' manual & aerial construction book -lets etc. For full particulars write to: R.MacKenzie, Box 306, Kaitaia.

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NEW ZEALAND RADIO DX LEAGUE

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ORTF PARIS has no plans to close its shortwave services as rumoured early this year. This was confirmed by Rob Harrington of ASWIC who called in on ORTF specifically to find out. The French Broadcasting organisation is to be broken up into separate radio and TV groupings. Where did they get that idea from?

SWAZILAND. Now that DW Malta is being widely heard, the DXers ears are now turning to Trans World Radio's new SW facilities at Mpangala Ranch, near Manzini, where on-air tests are due to begin very soon. Regular programming will begin later this year, probably in English, Afrikaans & Zulu.

William Wilkins ASWIC

SUMMER TIME IN ISRAEL means that from 7 July to 12 October, IBA EE services are one hour earlier, that is - 0400 -0415, 1030-1100 and 1900-1945 GMT.

Dick Whittington, Jack Searle

SIERRE LEONE's new 250kw transmitter at Waterloo is well under way to being completed. Antenna gain of 3db should provide an effective 750kw output. 3316, 5980 & 9630kHz have been registered but a final choice will be made after field strength measurements have been carried out during test broadcasts.

Geoff Cosier ADXC

MONGOLIA. According to a letter from Head of the English Service, Ulan Bator is to begin a North American and European Service. Bill Mathews NASWA