



NEW ZEALAND DX TIMES

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SOUTH PACIFIC ASSOCIATION OF RADIO CLUBS

The following is the text of a press release from ADCOM in Invercargill:

A third international group of radio clubs has been formed with the founding of the SOUTH PACIFIC ASSOCIATION OF RADIO CLUBS. SPARC is based on similar lines to the European DX Council and the Association of North American Radio Clubs and will be seeking full affiliation with those two groups. SPARC has been formed by the Southern Cross DX Club, Adelaide, the Down Under DX Circle, Melbourne, the New Zealand DX Radio Association, Dunedin and the New Zealand Radio DX League, Invercargill, as foundation members with the aim of promoting radio listening in Australia, New Zealand and the South Pacific. The New Zealand Radio DX League, through its National President, Arthur Cushen, has been responsible for negotiations and will provide the secretariat during the formation period.

SPARC will publish a newsletter for circulation to member Clubs and will make this available to EDXC and ANARC. Competitions, standard points systems, country lists etc. are planned to be used jointly by member clubs to encourage competition between members of SPARC. It is hoped that other clubs in the area will also seek affiliation with SPARC.

Subscriptions 1981 to 1982

NOW THIS IS IMPORTANT! If members fail to pay their subscriptions promptly - two things happen. First if you

haven't paid by the end of October 1981 your name will be removed from the distribution list and you will not be getting any more copies of the 'Times'. Second, if the League does not get paid the subscriptions there will not be enough funds in the 'kitty' to pay for publication anyway - so it is over to you - the members. If you want to continue receiving the 'Times' - pay promptly. If you want the 'Times' to continue in publication - PAY PROMPTLY.

NEW ZEALAND RADIO DX LEAGUE

President: A.T.Cushen, M.B.E.

Hon.Secretary: Mrs Irene Simpson

Administration Committee (Membership, Policy,

Competitions, Subscriptions) - P.O.Box 1313, INVERCARGILL.

Editorial (Enquiries regarding content & distribution of the 'Times' ONLY) -

P.O.Box 2956, WELLINGTON. CLOSING: Noon on 1st Monday monthly.

Stationery - P.O.Box 450, DAMARU.

Competition Awards - P.O.Box 3011, AUCKLAND.

DEADLINE: NOON, Monday, 3 August. Loggings, Veries, B.O.M., Ladders.

② FROM THE BRANCHES

AUCKLAND: The June meeting was attended by 19 members and the

League's attitude towards Utility DXing was covered in some detail during discussion. Branch member Frank Vader demonstrated his homebuilt computer - the Computer introduced itself: explained how it works: displayed a countries verified list: worked out the competition points for a chosen frequency and wrote a reception report on an old Post Office teleprinter. Frank uses his computer to write all his reception reports and this must be a first for New Zealand DXers. COMPETITIONS: The results were displayed on the Computer's screen: Broadcast - Bryan Clark KVEG Nevada 1400 250w. SW over 9 - Bryan Clark Algeria 25700. Under 9 Douglas Doull R.Dublin 6910 400w. NEXT MEETING: 2 pm on Sunday, 26 July at W.Suburbs Radio Club, 3000 G.North Rd. New Lynn. The feature will be a question and answer session on any and every aspect of the DX hobby. Enquiries to Jim Gorman, Tel. 298 5534.

NORTH OTAGO: The last report from here is of the May meeting attended by six members who finalised arrangements for their Raffle. Two members had given a talk to the local Stamp Club on DXing and in the following week a visit to the Post Office Toll Room was expected to be of interest. On 15 October a visit to Alliance Textiles is planned. The Branch is busy with organising for the League A.G.M. at which there will be, what are described as, the usual happenings. The Branch hope to see as many members there as possible. COMPETITIONS: Best of Month to junior member Christopher Kitto with WVUV American Samoa 1116 10kW.

SOUTHLAND: 14 members attended the June meeting at Arthur Cushen's. The President, Steven Greenyer, welcomed Neville Henry back to the Branch after his working overseas in the Middle East and West Africa. It was decided to hold a Pot Luck tea at Paul Aronsen's on Saturday, 25 July, at which Neville and his wife will show slides. The Covention situation was discussed following Wellington's withdrawal and it was decided to offer to host the 1982 Convention over the Easter weekend, 9 - 12 April 1982. Owen Crawford gave a talk on his recent visit to California and through to Las Vegas and also read a letter from son, Ray Crawford, now living near Gladstone, Queensland. COMPETITIONS: B.O.M. Broadcast - A.Cushen LARZ Phoenix, Arizona 960 5 kw. SW over 9 - L.Robinson Deutsche Welle 21540. Under 9 Steven Greenyer R.Bahai Ecuador 2340 1 kw.

CONVENTION

THE SOUTHLAND BRANCH has requested ADCOM approval for it to host the 1982 Convention following the withdrawal of the Wellington Branch. It is planned to hold the Convention over the Easter weekend, 9 - 12 April, and a sub-committee consisting of P.Aronsen, Chairman, S.Greenyer and E.McIntosh, has been set up to provide the organisation. The Convention will be held at TIWAI and will be on the same lines as the very successful Convention hosted by the Branch in 1978. Further details will be announced in the 'DX Times' shortly. In the meantime start planning to visit Invercargill and attend a Convention at one of the best reception spots in New Zealand.

SUBSCRIPTIONS - 1981-2

rates, we can confirm that there will be no increase in subscriptions for 1981/82. The rates are as follows:

Now that the Minister of Finance has presented his Budget for 1981 and has not increased postage increase in subscriptions for

	New Zealand	Australia & South Pacific	North America & Asia	Europe, Africa, South America & Middle East
Subscription	\$12.50	\$17.50	\$21.00	\$22.50
Joining Fees	\$4.00	\$5.00	\$6.00	\$6.00

PAYMENT IS TO BE MADE TO: N.Z.RADIO DX LEAGUE, P.O.BOX 1313, INVERCARGILL.
MEMBERS WHOSE SUBSCRIPTIONS HAVE NOT BEEN PAID BY 31 OCTOBER WILL HAVE THEIR NAMES REMOVED FROM THE "DX TIMES" DISTRIBUTION LIST.

BROADCAST DX

POR EL PERSONAL NECESARIO ③

This month sees a small change in the way news of new stations is presented, instead of the news being mixed up with what started out as the mediumwave editorial, it will be separated from the editorial under its own heading, this should make for easier reference. If your mediumwave editors have nothing to say then the editorial will be very brief.

The broadcast pages are typed up by several Southland Branch members and sometimes we make mistakes and miss someones entry or notes, if this happens then let us know about it. Mistakes do happen and are caused usually by contributors putting all their different entries on one page, separate pages for Broadcast and shortwave are essential, and it is a big help if for instances Trail and notes are on separate pages or at least clearly defined and labelled.

NZ Broadcast News.

- 4YQ 1134kHz Queenstown. Will carry its own programmes for the Winter Festival 25 July to 9 August, 0700-1000 and 1600-1900 NZT.
R.Otago 1359 kHz Queenstown, also will carry local programming for the duration of the festival, no times available.
R.Rhema 1503 kHz Wellington, has been granted a licence to operate a 5kw repeater synchronised with the Christchurch repeater, due to open on November 11. Also planned is a relay station in Auckland.
4XT 1305 kHz, Dunedin. was on the air from Glenfalloch Gardens for the Telethon weekend, with 100 watts. It used the Radio Fiordland transmitter Signal in Invercargill was only fair.
1XR 855 kHz Hamilton Rural Radio, operated by Radio New Zealand for the Agricultural Show, ending week of 9 June, power 1kw.

Credits. A.Cushen, D.Powely.

MAILBAG.

ARTHUR CUSHEN, INVERCARGILL. has logs 2XS 828, 1XD, Caribbean Beacon 1610, 1xr, 3WH, XEVOZ, Vision 1310, WOKB 1600, 1YT 1314, local news 6.30 pm, 4XT, verifications are KARZ, KOFI, 1xd, and 1XR. Not sure if 1610 should be in here or not.

DENE LYNNBERG, PUKERUA BAY. Has them out to V of Asia 621, IGT 1570, HLAZ 1566, Singapore 792, 1XR 855, 2ZB, 4XT, Macau 735, KATB, 2GB, 2NR, 6PH, 2xs, and 4XF, veries in from 2ZD, 1YT, 1XR, 4ZF, 2XN, 6PH, KSSK, KLEO, good list.

STUART RAMSAY, OAHARU. reports 2XN, 4XF, 2XS, 4ZG, XA, XC, XE, ZF, 2YB, 1XR, YB, veries to hand from Muhlacker 576, 7ZL, 1XA, 2XR, 1XR, 4ZF, 4ZG, 1YB and 3XG. very good.

MICHAEL SMITH, OPURAKE. reports KTWG Musical 730, Cambe 1230, Calcutta 1134 Vila Verde 735, Damman 1440 and WSPD. 1370. veries in from KTWG, 4XR, 2ZM, 4YA, LRA1 870, Sabah 780, VL2NI. Sorry for missing your Seychelles.

BRIAN WEBB, UPPER HUTT. Reports 2YW 4XA, XC, XE, XO, veries, 2CA, DU, LF, 1xr and 4XO. ta.

RAY CRAWFORD, QUEENSLAND. No reports out yet, but has veries to hand from 5KA, 3KA, and DYLA 1506 and 1452. Ta.

LES ROBERTS, HASTINGS. reports to 1XW, 1YZ, 1ZB, 1XA, 2ZA, 1XX, 3KZ, 1XI, 2CH and 2RC, veries in from 1XW, YZ, XX, ZB, XA, 2ZA and 3KZ. Your notes sent round in circles before arriving here, better luck next time.

LAURIE BOYER, INVERCARGILL. Has a large list with, logs of 2XS, 1XY, 3YR, 3Z0, 1Z0 2YW, CHLO, 2CN, 5AN, 2ZW, PNG 585, 1ZT, 1ZH, 1YW, ZB, XX, YA, 2ZP, ZA, ZG, YZ, YA, YM, EA, 1ZN, WSZD, 3ZA, 4YA, YP, 5SY, CK, Fiji 639, and 2EA 1584. veries are 4ZR, RK, GY, BK QL, 3YR, ZO, ZA, 2GF, WH, MC, AY, ZW, YZ, XL, YW, ST, ZP, ZA, YM, MB, YZ, ZG, YC, CH, YA, 1YE, YK, ZH, XX, YW, ZN, BBC, CHLO, Cadiff 1359 a good list of veries again.

BRYAN CLARK, AUCKLAND. Caribbean Beacon Heroica 1410, CE114 Rumbo 1380, Universal 1400, and 1XR are the loggings and veries are Voz Portena 1550, Nicaragua 620, Dubai 1481, VOA Antigua 1580, full detail card, and 1XR. nice latins.

DEXTER POWELY, DUNEDIN. LOGS 1XR, 1YB, 2ZH, 4YZ, XT, veries 1XR, YB, 4YZ, XT, ta for info.

BROADCAST DX

4

ROBIN CHAMBERS, OPUNAKE. reports to HJAP, R. Dargaville, KTWG, 1XR, 2GB, 7NT, Car Beacon, VOA Antigua, 3ZO, HJLD, Surabaya 585, varies in from 2XA, 2UW, HCIC6, 2XN, 2ST, 6TZ, Dargaville and 1XR. good.

ANDREW GARDNER, WELLINGTON. reports out to 1ZA, ZB, ZD, ZH, ZO, ZU, XR, 2BL, BS, PK, GF, ZA, ZC, ZG, ZH, ZM, ZN, ZP, XS, 3XY, NE, ZA, ZM, 4NA, QR, QD, YA, YZ, ZK, XD, XA, Queenstown repeater, 5RM, Dargaville, Noumea, varies in from 1ZAZB, ZD, ZC, ZE, ZH, ZM, XA, XP, XR, XW, 2ZA, ZC, ZD, ZH, ZK, ZM, ZN, ZP, ZW, XW, NR, OO, VM, 3ZB, ZM, XA, XG, 4ZA, ZF, ZW, XA, XQ NA, Dargaville. A large list, send the circuit and all the de tails of it.

LES ROBERTS, HASTINGS. with this months notes logs, 1ZE, YZ, XW, XA, XX, XI, XP, 2ZA XW, XS, 3XG, 4XO and varies from 1ZB, XW, XA, XX, 4YZ, XO. Ta Les please send all DX Times notes to Wellington address, otherwise everything is fine.

LINDSAY ROBINSON INVERCARGILL. reports to 2XS 2MW 4TO KGBT 4XF Fiji 1467.

LYALL MATHIESON MORNINVILLE with this notes logged IYB 3YB 3YC ZB 2M XG & IXR 855 QSL, s from 3YA YC ZB ZM IYB 2YM 4GY NA 5DN.

PAUL EDWARDS WELLINGTON. KSSK MACAU 735 (test). QSL, s From HJKC 850 Palembang 1287 KNIX Somalia 963 WCBS KSO 1460. Cook Islands 600

STEVEN GREENYER INVERCARGILL Logs WOKB RELOJ La Voz Del Patria, R AGRICULTURAL R Principe La Voz Del Turismo IXR 4XT.

ERIC McINTOSH INVERCARGILL. With reports out to 1XR 1XD 1XP 2XM 2EA 2CP 2MW 2XN 2XS 4XT XF XR Beacon 1610 QSL, s from 1XD 1XR 2NC 2CP 2MW 2XN 2EZ 2XM 3BO 4XS 4XR 4XG 4QY 4QW Langenberg 1593 Caribbean Beacon 1610 1XP 4XT

PETER JONES HAMILTON. Broadcast logs 1XR QSL, s From, 2WS 1XR.

Senior. R.Chambers HCIC6 Rucvos Horizontes, 1465 khz 5 kw. 151 points.
Junior. S.Ramsay. Luhlacker Germany, 576 khz, 300 kw. 106 points.
BEST OF THE MONTH

Amendment to April BOM Result. BOM was a tie between B.Woller and M. Smith Opunake with Seychelles.

MAIL BAG CONTINUED.

JACK SEARLE HAUMOANA. reports out to 1XR & 2XS Logs in from VL2NI 1XR .

PHIL BROOKS WANGANUI. reports out to 1XR 855 1ZD. QSL, S from 1ZD 1XR 855 2ZD 3ZA 4QR 4ZF.

NEWS.

AUSTRALIA. 4R0 to move to 990 khz by the end of this year. 5kw NSP.

BANGLA DESH. A new 100 kw transmitter at Noapara should be on 558.

BARBADOS. Voice of Barbados, new station according to News paper reports, 20 kw on 790 kHz.

PARAGUAY. R.Presidente Stroessner now on 550 khz ex 890 khz.

AUSTRALIA. 6NR 927 Commissioning a 2 kw W.A. Institute of Technology. Address W.A.I.T. Hayman Rd, Bently 6102.

ANGUILLA. Caribbean Beacon 1610, has verified Eric McIntosh. According to announcements the station is using 30kw hours 0900 -0500. According to League rules this station should be short wave.

Apologies for this months mistakes but one of your typists has a bandaged thumb which doesnt help matters. We would appreciate any comments on this months changes front page and trail.

BROADCAST TRAIL

5

FREQ.	TIME	COUNTRY	PROGRAM & RECEPTION DETAILS	INITIALS
550	1330	Thai	good	RC
585	1056	RRI	Surabaya good till 1120 over PNG.	RC.
590	0515	Cuba	fair // 600 SS prog.	BC.
730	0730	Melodia	very good 9-6	RC.
740	1115	KRMG	fair with talkback .	MS.
770	0530	Tequenda	? SS fair.	RC.
790	0615	Mitre	fair .	RC.
800	0348	PJB	poor in EE, good 0400	BC.
	1239	KTWG	FAIR TO GOOD , GOOD I?D 1302	RC.
854	0552	Nacional	Peru light orchestals.	BC.
855	1125	Indonesia	mixed with Aussie. 20-6	RC.
870	0615	LRA1	good	RC.
909	1130	Unid	Philippine.	MS,
			According to R. Crawford DYLA has moved here.	
930	0704	KHJ	good with C&W .	MS.
950	0615	Belgrano	good 22-6	RC.
1010	0450	OAX4U	good 9-6	RC.
1020	0535	Margarita	Venezuela good.	RC.
1070	0615	LRI	fair..	RC.
1100	0454	HJEW	Reloj I/D.	RC.
1140	0433	CB114	very good off 0502	BC.
1150	0544	YVMM	numerous time checks very good.	BC.
1180	0337	CB118	Portales good off 0430.	BC.
1190	0815	Cordillera	good Caracol I/D.	RC.
1230	0540	Calidad	good .	RC.
	0555	R. Caribe	heard briefly.	MS.
1290	0450	La Voz del Turismo	good off 0453 .	TY.
1300	0528	R. Reloj	Pereira good.	TY.
1310	0544	La Voz de la Patria	good off 0552	TY.
1370	0623	WSPD	fair C&W.	MS.
1380	0332	Colo Colo	good Dance Music .	BC.
	0615	KTOM	fair to good.	RC.
	0927	Rumbo	peaking good with I/D .	BC.
1400	0435	HJAS	Universal ,good.	BC. &RC.
1410	0601	"Heroica Radio "	OAX2Y good.	BC.
1420	1006	R.Bahai	I/D peaking well at times	RC.
1480	0508	Peruvian Unknown	peaking strongly Ann. " En Peru Radio Pintarin - Radio mejor la guardia de la Pacifica" 9-6	RC.
	1490	Punto Cinco	with long religious program	TY.
	1500	Tigre	good at times I/D " Esta es R. Tigre " .	RC.
	1519	R. Reloj	good	RC.
	1560	CRCN	Colombian here .	BC.
	1570	CKLM	goodwith FF.	RC.
	1580	VOA Antigua	till 0400 sign off.	RC.&TY
	0630	XEVOZ	many mentions of Mexico	TY.
	0436	Principe	Colombia fair .	TY.
1590	0450	Agricultura Peru	fair flute music .	TY.
1600	0614	WOKB Orlando	Florida negro station good I/D .	TY.
1610	???? 0345	Caribbean Beacon	Anguilla good with gpspel ,, now announces 0500 sign off.	TY.RC.BC.

CREDITS R.Chambers. B.Clark. M.Smith Opunake. Ty Tiwai. Cushen, Dunstone, Greenyer.

LETTERS

Don't know quite where to start this time, so we'll put up a shortie for a starter.

BRYAN CLARK writes that the 'DXers Friend',

Alan Roycroft, has an unusual hobby, collecting old radio station microphones. Any member who might be able to help, please drop a card to Alan with details. Address: Box 1007, Waipahu, Oahu 96792, Hawaii, U.S.A.

Now that leads nicely to a note from ARTHUR WILLIAMS, 26 Centre Street, Invercargill, who says that in response to a letter from an American DXer, he is going to do a survey of receivers used by League members. But NOT the modern solid state variety but the old valve driven machines of the 30s thru to 60s, particularly Hammarlund, Hallicrafters, National and other makes. He would also like to hear of any other older models - domestic sets such as Philco, Pye, Philips, Columbus etc. He'd like comments on performance compared with modern sets - drop him a line with details of the receiver and its DX performance and he hopes to get some sort of list compiled for comparisons. Arthur's letter ends up - "Tell you what! To make it more interesting I will offer a copy of Art Cushen's book to the member with the oldest or most unusual receiver. Sounds interesting - Arthur or course will be the sole judge and I hope he will send us his results for publication.

Also concern with antiquity is VICTOR GODNETILLEKE of the Union of Asian DXers. Victor is trying to collect material about R.Ceylon and, before that, 'Colombo Calling' from the point of view of foreign reception. He would like any information from DXers who heard Ceylon in the early years, photocopies of QSLs, programme skeds etc. He will reimburse postage and other costs. The address is 32/4A Malwatta Road, Dehiwala, Sri Lanka.

MIKE SMITH, Opunake, isn't exactly an antiquity even if he did start DXing in 1966.. He started off joining the NZDXRA because his uncle, Bill Woller, was a member of the League and that way they got both the 'Times' and 'Tune In'. He's just started subscribing to 'Tune In' again and finds the Ham/Ute section useful. Likes the idea of amalgamation as long as it can be achieved without too much parochialism or 'aggro'.

Another old timer is DES DAVEY, Te Kuiti, to whom the very mention of 'Utilities' is like a red rag to a bull. Basically Des does not want to see the 'Times' cluttered up with 'rubbish' like utilities, Ham stations, boat RTs, trucking company CB and the rest. Stick to AM and shortwave as the only basis for the hobby - well, that is one point of view. To some the very idea of covering other sections of the spectrum is anathema but then you get others like Mike Smith, young Tim Austin and Owen Cullen who have a wider range of interests. Is this to be catered for or just ignored?

So on to another type of antiquity - and I am sure my correspondents BOB and EVELYN WATSON, 77 years old DXers of New Plymouth, will forgive me for using the term in regard to them. They've been DXing for the last 9 years and are using a DR49 with a .20 foot whip on the house top and a 60 foot wire. They reckon their posie at the bottom of a valley is a poor one as while they hear the big stations they miss out on the smaller, weak powered ones. They've made a lot of contacts overseas though and joined clubs and won one or two prizes and are having fun. This letter prompts me to enquire - Who is the oldest among our members - what advance on 77years? Anyhow thanks for your letter Bob and Evelyn and may you both have many more hours and years of happy listening.

Next up DAVID McINTOSH, 70A Kings Crescent, Lower Hutt, who wants comments on the Magna Wave Aerial Booster advertised in the 'Listener'. I recall that earlier in the year there were two comments from members on this - one quite favourable, the other equally unfavourable. Neither got published. Would any one like to drop David a note telling him of their experience with this gadget.

MORE LETTERS

The next letter was from JACK SEARLE, Haumoana, who was very bitter about an apparent 'cock up' in the Ladders. Well, the full ladders will appear this month and, I think/hope, answer your complaint - and, by the way, Jack, have you never made a mistake? Your letter will go to Stuart Forsyth for comment.

JIM WEBB, Manakau, sent a copy of a letter from DW outlining their QSL policy. Thanks but I think this is fairly well know so I'm not going to repeat it here.

We had our usual letter from DEXTER POWLEY. Unfortunately a lot is out of date by the time it gets here while other parts are of very local interest. Please keep it coming though as we can pick bits here and there.

KEN GRAHAM is another old timer who now lives at Mount Maunganui. He has written giving some of his experiences with Beverages which he first used in 1933. At that time he lived on a back country sheep station owned by his father. He started with a 3 valve De Forest and later got a 9 valve Majestic. He ran a wire 1000 foot up a slight hill and fixed it to a fence 30 inches above the ground. It gave good results. In very dry summers they used the 3 wire fence which ran 3 miles and had very good results between 500 and 900 kHz. Now he uses two 187 ft. wires in the form of a 'V' to feed his FRG7000 and FRG7700.

Lastly I come to CLEVE COSTELLO, Wellington, who has sent me a copy of his submissions to the 'Inquiry into FM Services'. In essence the submission was a plea for improvement of the RNZ External Service rather than the introduction of FM at unknown cost and of doubtful benefit. Sadly there appears to have been no support from any other source and it seems probable that this vote-catching gimmick will proceed at the expense of the most potent means this country has of projecting its image and its philosophies on the international scene.

RADIO DENMARK



According to DWSCI SW News the present, old transmitter site used by Radio Denmark, at Herstedvester, is now surrounded by bungalows in the western part of Copenhagen and this is causing a lot of problems. For the future 500 kW transmitters a new site is being planned on the island of Mors in the "Limfjorden", North Jutland. The site will be on a narrow tongue of land out in the sea. The cost of the new transmitters is estimated at 88 million Danish Kroner.

Canterbury Branch

These arrived well after the appropriate page had been finalised but we aim to please and here they are. Branch activity has been low key over the past months. However some members have been active and have reported logging Radio Dublin from their home locations. On broadcast 4XT was logged during 'Telethon'. NEXT MEETING: 2 pm on Sunday, 26 July at Alastair Stewart's, 37A Merrin Street.

RADIO RIGS

A couple of months ago it was suggested that it would be of interest to member to learn who uses what. A couple of members have come to light. MIKE SMITH uses a 20 year old Hallicrafters SX-100 which he says makes the Eddystone EC10 he started with look sick. Comments that the switchable selectivity (down to 0.5 kHz) combined with the IF passband notch filter makes it possible to get right in on the 'splits' without the het. Considers a tape recorder a must. Antenna - 36" loop with FET preamp and an inverted V $\frac{1}{2}$ wave dipole on 3.9 MHz about 30 ft. at centre. JACK FARROW has an unmodified FRG7 used with a Codar PR40 Preselector which, he says, makes a real difference on the higher bands. Also uses a Sharp cassette tape recorder and a digital clock. His antenna are 90 ft. inverted 'L' east/west and a 70 ft. inverted 'L' north/south both at 25 ft. Also an 11 metre dipole east/west at 18 ft. The antenna are coupled to a switching system so that reception on any antenna can be compared without difficulty.

QSLing the USSR

In an article appearing in the May 1981 issue of the WRTVH Newsletter, co-editor Olle Alm, an electronics engineer with the Swedish Patents Office and a long time DXer, comments on the full data, i.e. transmitter site in addition to frequency and other details, QSL cards currently being issued by Radio Moscow. He states that the sites shown on QSLs are usually those to be found in the lists submitted to the International Frequency Registration Board for their winter and summer tentative high frequency broadcast schedules. These lists show the frequency usage for the previous year in the case of the D (winter) and J (summer) schedules, ie for DBO they submit their D79 definite schedule etc. For the M (spring) and S (autumn) issues they submit the actual schedules but RM QSL secretaries do not receive these so they continue to use the D79 lists for M81 and so on. (Ed. note - the seasons mentioned are, of course, northern hemisphere) This, he continues, leads to some obvious contradictions between what is heard and what appears on the QSL. For instance a Far East site used the previous year for transmissions to N.America and appearing on QSLs may have been substituted by a European (usually Ukrainian) site the next year on the same frequency so that listeners on the East Coast (of N.America) suddenly get a "Far East" site booming in in a most incredible way. The actual D and J schedules are submitted to the IFRB about mid-season in the form of corrections but QSL secretaries do not receive these either. For transmissions which cannot be matched with any data in the outdated schedules they probably phone a technician who gives them something to put on the QSL. Another pitfall which is mentioned is possible confusion of sites used by R.Sofia and R.M. jointly and which may or may not be what they purport to be.

From the article it appears that in the USA and Europe, the art or science of establishing the location of USSR transmitter sites is highly developed.. The author prepares charts of USSR high frequency transmissions for the four major seasons and information from these is available to the public through the USSR High Frequency Broadcast Newsletter, c/o Roger Legge, Box 232, McLean, VA 22101.

GMT - the end of an era

Another item in the same Newsletter mentions that as from the start of the M81 SW broadcast season, the IFRB is using the term 'UTC' - 'UNiversal Co-ordinated Time' instead of the familiar 'GMT'. This apparently results from a decision at the 1979 WARC and some stations, e.g. R.C.I. have already started using UTC in their announcements and schedules.

It appears that part of the reason for the change is that some years ago the Greenwich Observatory, through which the so-called 'Greenwich Meridian' runs was moved out of Greenwich and in consequence the term 'Greenwich Mean Time' has not quite the same significance.

Well times change - even UTC as has happened in recent weeks - but I know that I for one shall not find the change from GMT to UTC half as traumatic as those from £.s.d to \$.c or from gallons and pints to litres, or from miles to kilometres for after all we've been hearing the expression for years now every time we check our clocks with WWV or WWVH.

COMPETITIONS & AWARDS

First my thanks to those who responded to my comments on 'Competitions' in a recent editorial. I shall be passing your letters on to ADCOM with a recommendation that they be considered by the Competitions Committee for consideration and hopefully some action.

Thinking about it further it seems that one should probably distinguish between 'competitions' and 'awards'. In the former each of those involved is trying to achieve better results than the others. An award on the other hand need involve no competition and could be made simply as a result of completing a specified task. So far as the League is concerned the only competition open to individual members seems to be the Best of Month and, of course, winning the appropriate section of the Ladder in each half year.

IAN CATTERMOLLE has come up with a suggestion which could give a more competitive element to the Ladders. His suggestion is that each competition should run for a specified period, say 12 months, with 2 monthly entries as at present. However while retaining total QSLs as at present and the various categories, the ladder would be arranged so that the member with the greatest increase was at the top. He gave the following example:

	<u>Start</u>	<u>Finish</u>	<u>Countries</u>	<u>Increase</u>
Michael Williams (Novice)	135	335	47	200
Arthur Cushen (Gold Star)	4970	5088	240	118
Bill Jolly (Senior)	366	450	77	84
Stuart Forsyth (Intermed.)	178	250	21	72

In this instance Michael would obviously win not only the Junior Section but also the overall Ladder for that period. Ian makes the point that he believes that this method would give newer members a greater incentive and also points out that they would have some advantage in that the fewer QSLs one has the easier it is to find stations/frequencies which have not already been reported. Lastly he suggests that it could lead to fiercer competition which is good for all hobbyists.

On the Award side, REG MOSS suggested the award of Certificates to members who have verified 50, 100, 150, 200 etc. countries with a Master DXer Certificate for he who does it on both MW and SW. This is a modification of what is done by NASWA which has over 25 Awards including 'European Continent', 'Asian DXpert', 'Soviet Sphere DXer', 'Ecclesiastic DXer', 'Senior Brazilian DXer' and the top Award 'Master DX Centurion' for verification of 200 Countries - these among many others - each with their own requirements.

Members will no doubt have noted how appropriate to our hobby is the acronym of the new regional organisation announced in this issue. It is also interesting to note that among the objectives of the new body is the promotion of 'competitions planned to be used jointly by member clubs'. Can we, the members, hope that the imaginations of the members of the governing body will be "SPARC - ed"

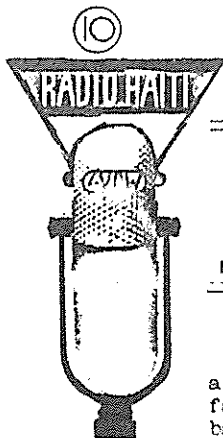
into offering us some Competitions and Awards which while being a challenge to the 'professional' DXers will also give the 'amateurs' a chance.

How about this for a starter - "The Pacific DXer Award" - one for each in the MW and SW Bands. A certificate would go to each member who verified, say, 10 countries on either MW or SW during a twelve month period. A member who verified the requisite number of countries on both MW and SW might be given a "Master Pacific DXer Certificate".

It would be nice to see the Competitions Committee take the 'bit between its teeth' and announce, say, that from 1 January 1982 such and such Awards would be available to members fulfilling certain conditions. I could be much more direct in my urging but will limit myself to asking - 'Please, please do some thinking and go beyond the confines of what has been done for the last thirty years in this snug little, tight little country of New Zealand.'

NETWORKS

According to an item reproduced from the New York Times in 'Sweden Calling DXers' there is an explosion of radio networks in the USA. By the end of the year, the big four - ABC, CBS, NMC and Mutual - will have increased to 19, some of the newest being RKO Radio, Wall Street Journal and Satellite Music Networks. This growth is traced to the increase in radio stations from 4000 to nearly 8000 in the last ten years and thence for the new stations for additional resources to enable them to compete in the market place. The Satellite Music Network plans to provide two 24 hour day networks, one with adult pop the other with contemporary country music. The smallest is the Doctor's Network which provides special medical news over an FM subchannel. Other specials provide sports, drama, women's programmes etc.



MY FAVOURITE QSL

Barry Williams New Zealand

4 V W 1350 Kc	4 V H W 6175 Kc	4 V R W 9840 Kc
AFFILIÉE A LA		PORT AU PRINCE
COLUMBIA - BROADCASTING SYSTEM, INC.		HAÏTI
ET A		
LA CHAÎNE DE LA PAIX DES NATIONS UNIES		Cable Address H H 3 W

The title "My Favourite QSL" is an apt one as with most DXers their "best" QSL is usually not their favourite nor most memorable. I have two QSLs which bring back very pleasant memories and which I treasure. Both stations were well heard at the time. One was relatively uncommon, the other extremely rare. Possibly the fact that these stations were heard when I was a teenager and of a more impressionable age has instilled them on my memory.

The first verification is memorable because it was the first Real DX station I heard, identified and verified. A NZ first; Radio Haiti 4VRW, 500 watts on 10080 kcs heard on the 31.7.53 while still attending High School.

At the time I did not possess a SW set of my own and my DXing was done on the family's old 6 valve Pacific. At 0245 GMT in the afternoon, NZ time, while tuning the bands I came across this out-of-band station broadcasting in English. It identified as Radio Haiti. At that time there were two stations on SW one Radio Haiti the other Radio Raitie. I did not know which I had heard. The solution, send off a report to both.

Several months went by, then one day arriving home from school my mother handed me a letter; I saw the postage stamp, and couldn't get it opened fast enough. It was a letter from the English announcer of 4VRW, Radio Haiti. Without a doubt this verification gave me the greatest thrill I have ever had when getting a verile back, even though many better stations have been verified since. For me it was the start on the road of serious DXing.

The second station was again heard while I was a student. It was heard on the 12.6.55 and if my memory serves me well, a Wednesday. The fact of hearing the station at 0330 GMT on a Wednesday was probably why I was the only DXer, that I am aware of, who heard it. Probably all others were at work. The station was 2AP Apia, Western Samoa broadcasting on 6040 kcs. The reason the station was on shortwave was that it was transmitting a commentary on a Rugby football match between Fiji and Samoa. Obviously the transmission was for listeners in Fiji. As far as I am aware Western Samoa has not been heard on SW since. The fact I was tuning the bands at that time and the fact that it was a Rugby commentary, which drew my attention, all lead to the unique logging. Strangely the receipt of the QSL card did not move me greatly as it was only as the years passed by that the rarity of the station has sunk in.

Today when I get back that good catch or new country it is more satisfaction I get than the thrill of earlier years. Being the first to hear, identify and verify a station is something to be proud of and aimed for.

GOVERNMENT OF WESTERN SAMOA

BROADCASTING DEPARTMENT RADIO 2AP

14-20 k.c.

2AP

2000 watts

Broadcast

LEAGUE LADDERS

Shortwave

11

DIVISION	DEC	JUN	INC	CNT	DIVISION	DEC	JUN	INC	CNT
GOLD STAR (1250+)					GOLD STAR (1250+)				
Arthur Cushen	2451	2497	46	145	Arthur Cushen	4970	5107	37	145
Keith Robinson	2354	2376	22	116	Dene Lynneberg	2413	2446	33	218
Ray Crawford	1535	1614	79	167	Barry Williams		2222		224
Laurie Boyer	1388	1453	65	?	Ray Crawford	1695	1757	62	175
GOLD ACE (1001-1250)					John Mainland	1617	1647	30	210
Eric McIntosh	1119	1152	33	89	Ian Cattermole	1450	1523	73	142
SILVER ACE (751-1000)					Bryan Clark	1348	1369	21	210
Robin Chambers	995	1061	66	120	Günter Jacob	1339	1360	21	131
Dene Lynneberg	832	879	47	104	GOLD ACE (1001-1250)				
ACE (501-750)					Jack Searle	1128	1144	16	140
Chris Martin	748	771	23	154	SILVER ACE (751-1000)				
David Ricquish	649	681	32	56	Paul Ormandy		896		163
Bryan Clark	527	546	19	94	John Campbell	816	879	63	226
Barry Williams		607		71	Lindsay Robinson	787	813	26	120
SENIOR (301-500)					ACE (501-750)				
Hank Wilkinson	499	524	25	79	Peter Jones	746	783	37	124
Ian Cattermole	477	481	4	28	Eric McIntosh	684	690	6	118
Paul Ormandy		434		63	Laurie Boyer	(671)	684	(13)	-
John Campbell	366	383	17	103	Paul Rawdon	585	591	6	139
INTERMEDIATE (151-300)					Jim Gorman	574	595	21	81
Alan Gilmour	272	278	6	39	Alan Gilmour	529	546	17	111
Stuart Forsyth	258	306	48	20	Cecil Symmes	524	543	19	109
Paul Rawdon	190	193	3	27	SENIOR (301-500)				
Jack Searle	188	193	5	20	Steven Greenyer	469	490	21	142
Günter Jacob	173	174	1	34	Bill Jolly	366	383	17	78
JUNIOR (50-150)					Jack Farrow	331	345	14	56
Peter Jones	143	161	18	13	Mike Smith	321	(353)	32	76
Mike Smith	132	136	4	13	INTERMEDIATE (151-300)				
Jim Gorman	111	112	1	7	Stuart Forsyth	178	200	22	67
Steven Greenyer	75	75	0	27	Ian Wells	165	169	4	65
Paul Schnell	51	55	4	5	JUNIOR (50-150)				

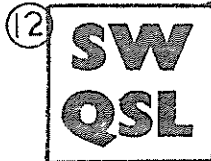
Not too many members contributed this month, and some whose names appeared last time have been deleted. Those whose names appear with () around their totals will be deleted next time if they fail to contribute. Please forgive me for not having got this in to the "Times" last time, but a typewriter malfunction and less than prompt servicing prevented me from doing so.

May I remind you that, a) all contributions must be sent to Box 2956 Wellington, and NOT Box 3011 Auckland, b) when contributing please include total at the beginning of the period, new total, increase & countries, c) you are not eligible to win your section if you have missed more than once during the month competition period, d) if you miss twice in a row you are deleted from the ladders.

A big welcome back to the Ladders to Barry Williams the SWBandwatch editor. To Frank-Crow, thanks for the note. Yes that's mine, but I'm not all that proud of it. It's now outdated. Write and I'll send you another one which I consider much better. Alan Gilmour my address is 8 Longdon St, Darfield Ph:Darfield (0516) 88-404. Pleased to see you at some stage. Well that's the lot for this month, see you all next time when I hope a few more people will contribute, and I want have to fill up the space underneath with such inane drivel! '73's

N.B. Section winners undetected!

Stuart



Welcome to the QSL Review for July. As a slight departure from the normal this month we also feature two excellent mediumwave verifications, one which is seldom heard these days. On shortwave we have the usual good bag of excellent veries, so let's get into it right away and see what we have for you.

ALGERIA: Algiers. 25700 kHz sent attractive full-detail folding card, with photo of RTA Nodal Centre at Bouzareah. In 6 weeks for EE rpt and 1 IRC. Address as per WRTVH, but card came from "Direction des Services Techniques et de l'Equipeement". (Bryan Clark, Auckland.)

Azerbaijani SSR: Radio Baku. 6110 kHz. Plain black & white QSL card in English received in 4 months for an EE report. (John Durham, Hamilton.)

BRAZIL: Radio Educacao Rural, Campo Grande. 4755 kHz. Verie letter and postcard in FF from Ailton Guerra, Station Manager. Reply back in 4 months for EE rpt. (John Durham. A very nice one there John. Good catch. Ed.)

CAMEROON: Radio Bafoussam. 4000 kHz 20 Kw. Full detail card with map of the world in yellow on blue b/ground and all details of Yaounde and provincial stations on reverse. Received in 8 months for EE rpt. (Peter Jones, Hamilton.)

CENTRAL AFRICAN EMPIRE: La Voix de l'Empire Centrafricaine, Bangui. 5038 kHz. long personal verie letter in French from Michel Bata, Service de Relations Exterieures for a f/up rpt in FF for when country was an Empire in 1977. Letter has full details and includes hours of transmission etc. Received by air in 2 months for FF rpt and 2 IRC's. (Dene Lynneberg, Pukerua Bay.)

COMORES: Radio Comores. 3331 kHz. Plain black & white QSL Card back in 4 months for an EE rpt. (John Durham.)

WEST GERMANY: Sueddeutscher Rundfunk. 6030 kHz. Large yellow card with photo of studio complex and full details on reverse side, including schedule for Sueddeutscher 1-2-3. Back in 4 months for an EE rpt & 2 IRC's. Also sent 2 nice stickers for Radio 2-3. (Peter Jones, Hamilton. Nice Peter, but please watch your spelling on your notes, so as to save me time in future. Ed.)

IRELAND: Radio Dublin International. 6288 and 6910 kHz. Now verifying with full detail QSL eds with blue text and green map of Britain and Ireland. Also usual friendly letter from Angela Meier advising power increase to 400 watts and offering R. Dublin record and sunvisor at UK£1.00 each or £1.75 for the two. Address is simply Dublin 8, Ireland. Received in 4 weeks for 2 IRC'S. (Bryan Clark. Very nice. Guess that's makes 3 of them from Dublin for you. Ed.)

LAOS: Lao National Radio. Kieng Khouang. 5602 kHz. Verie letter in English from ThongPhet Luangphengsouk, Deputy Director of LNR in Vientiane. Reply back in 3 months for an EE rpt. Lao National Radio, Paske 6613 kHz. Verie letter in EE received from Chaleune Vongsam-Ang, Director General of LNR together with a frequency/program schedule. In 3 months for an English report. (Dene Lynneberg.)

LEBANON: King of Hope. 6215 kHz. Full detail QSL letter from Charles Pollak, Vice President & General Manager, received in 1 month for 1 IRC. Advised that 10 Kw transmitter located in "Valley of the Springs in an area called Free Lebanon (Southern Lebanon)". Address per 1981 WRTVH. (Bryan Clark.)

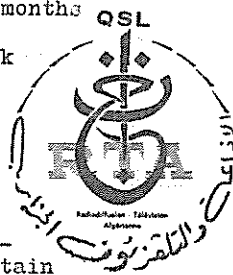
NIGERIA: FROM Enugu. 6025 kHz. Friendly verification letter from P.A.O. Orogbu. Asst. Chief Engineer Operations, who also included attractive FROM keyring 'as a mark of encouragement'. Address (Not in WRTVH) is P.M.B. 1051, Enugu. Received in 5 weeks for 1 IRC and EE rpt. (Bryan Clark.) Voice of Nigeria, Lagos. 17800 kHz card showing Remembrance Arcade with Tafawa Balewa Square in Lagos received in 5 weeks for an EE rpt. (Peter Jones.)

SEYCHELLES: Radio Seychelles. 1368 kHz 10 Kw. Black & White QSL card showing isl- and coconut trees with full data on card. Received in 6 weeks by air for EE rpt and 2 IRC's. Verie signer illegible but was Chief Engineer. Address: Ministry of Education & Information, Box 321. (Tony Marr, Titahi Bay. Nice one. Ed.)

St. PIERRE & MIQUELON: France Region 5. 1375 kHz 20 Kw. Stencil letter verie giving full data plus tourist books and maps & FR 3 sticker for St. P & M depicting a fish. Received in 3 weeks by air for an EE rpt and 2 IRC's. Verie signer is unfortunately illegible. (Tony Marr. Another excellent catch. Ed.)

Well as usual space has run out on us, so I guess that's it until next time. Hope the info proves usual. Thanks to all those who contributed this time around.

Section Ed. Dene Lynneberg



Shortwave Mailbag

Compiled by
BILL HUDDLESTON.

13

The results of top class DXing has been shown this month, in the excellent list of verifications sent in by Paul Edwards, and Dene Lynneberg. The verifying of Vos de Sao Vincenti, Cape Verde on 3930 KHz. must rate amongst the best verifications of the year. No less is the efforts of Dene in getting a QSL. from Central African Empire on 5035 KHz. with a follow up report, of one sent in 1977. also in their lists of veries are, Lao National Radio, Namibia, Yemen PDR, and La Vos del Tigre, Venezuela. A number of QSLs are reported from the new outlet in Qatar. The VOA seems to have turned over a new leaf, with a full detailed card in 11 days sent to Peter Jones. Frank Crow our member in Los Angeles tells use that the DXing is good over there, and the baseball season is just starting, if any member are heading out that way. Now to open the mailbag.

Paul Edwards, Wellington has veries back from Namibia 4965, Dublin 6290, El Tigre 9440, Voz Guatemala 6180, Ecos Del Torbe Moscow 12000, RM Vinnitsa 9785, RCI 6190, Yemen PDR 11770, Cape Verde 3930, Lesotho 4800. well done Paul.

Dene Lynneberg, Pukerua Bay Cuba 17705, Lao National Radio-Paske 6613, RM Erevan 17735, CPBS 5125, Gansu PBS 6005, Jilin PBS 6070, R Renescenca 11745, CBS Taipei 3335, La Voz de Nicaragua 5950, Central African Empire 5038, R Veritas Asia 9605, WYFR 5985. certainly a great list there Dene.

John Durham, Hamilton RTG Moyabi 4812, RM Kiev 9710, RM Moscow 11860, Lesotho 4800, Windhoek 4965. Thanks John.

Brian Webb, Upper Hutt has 46 reports out and veries back from HCJB 6130, 9745 21480, Kuwait 11650, BEC 5975 7185 9915, SFR 15395, NHK 17870, WYFR 21510, KTWR 11840, RN Bonair 9715 9770.

Michael Williams, South Australia has 6 reports out, and verifications back from R Bras 17830, R France Inter.17850, AIR Delhi 11620. HCJB 9745, R Nederland 17605, Austria 15560, NHK 15235, Norway 21730. Always good to hear from our overseas members.

Andrew Gardner, Wellington. As a new member of last month, Andrew is a DSIR trainee technician in Lower Hutt. Using a Sanyo 3 in 1 stereo and frequency meter.

Also using a ZC1, with an antenna of 150 ft. wire across a gully. We are always happy to hear how our new, young members are making out. write again.

Jack Searle, Haumoana has 9 reports out and veries back from Peking 9440, Moscow 12000, RM Vinnitsa 9785, RCI 15150, Kuwait 11650. Thx.

Peter Jones, Hamilton has veries back from XBRMX 9705, NKK 9505, AFRTS 21570, RFI Africa No1 15345, Polonia 6135, VOA Bethany 15345 Moscow 11920. Thx.

Paul Rawdon, Eastbourne R. Alger 25700, RFI 15435, WORD. Lebanon 6215, ELWA Liberia 4765, R Korea 9570, REE 9765. R Finland, was ELWA a full detailed veri, or just a ordiance card. Thanks.

Laurie Boyer, Invercargill has been very busy with 44 reports sent out and veries back from KTWR ---? RAE Argentina 11700, postie will be busy bringing the 44 veries back next month.

Mark Murrel, Nelson returning to the page after a five month spell of home decorating, and gardening. Mark has 9 reports out and veries back from VOA 15423 15335 11920, Radio Peking 9460, Kol Israel 15575. perhaps you had better come up and do my painting. Typing reports takes all my time. good to hear from you.



14

Shortwave Mailbag

John Mainland Wellington has QSLs back from TWR, Swaziland 11760, WYFR 15395 21465 15135 11960, Capital 7160, Qatar 15315, Thanks John.

Douglas Doull Auckland has veries back from Dublin 6910, Turkey 9725, ARW Europe 9651, Jakarta 15150,+pennat Seoul 15575.

Bill Jolly Kawerau, say the postie has gone on strike but has 6 reports out, have you got all the painting finished.

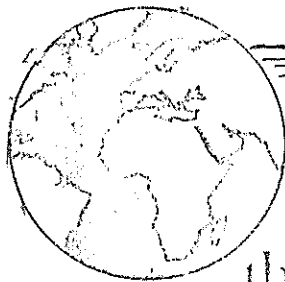
Bryan Clark, Auckland has veries back from TWR Swaziland 11740, Athens 21700, RCI 21630 9555.Thanks.

Arthur Cushen, Invercargill has veries back from Rome 6165 7275, Lisbon 21610, R.Japan 11840, NHK(Sines) 15425, Lesotho 4800, Baghdad 9745, Cuba 11930 15230. Qatar 11730, TWR Monte Carlo 11750.

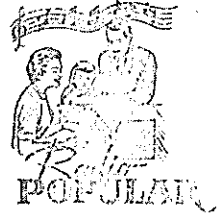
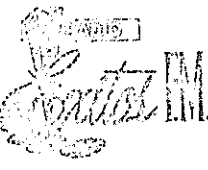
Bill Huddleston Auckland has 20 reports out and QSLs back from Dubai 17775, Vanuatu 3945, RM Vinitza 9785, SABC 4835, Belgium 15175, AIR Delhi 17875, VOFC with decal and mint stamps.

Frank Vader, Auckland has 25 reports out and QSLs back from NHK 17755, NHK (Sines)15425, RN Bonair 9770, RAE Argentina 11710, Dubai 17775,USSR 21490 21530, Sweden International 15380 21610, Kol Israel 15582, R.Northern Popondetta 2468, Polland 3955, ORU 26050, Tashkent 11785, keeping the computer working.

Jim Benzoni, Hamilton has sent 8 out and received QSL back from ELWA Liberia 4765, Thanks Jim.



TWR
SWAZILAND
introduces
the BIG 100kw



BEST OF THE MONTH

Under 9MHz

Dublin International 6910 KHz
300 Watts 134 Points

Peter Jones Hamilton

Over 9MHz

ORF Austria 17745 KHz
100Kw 94 Points

Bill Huddleston Auckland

Best of the month has reach an all time low with only (2) entries.

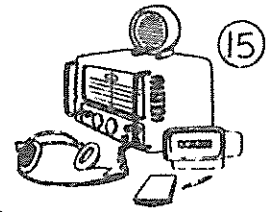
Lindsay Robinson Invercargill has been on holiday with his new Sohy ICF 6800w and sending out 17 reports, while the postie arrived with veries from Korea 15575, Deutsche Welle 21540, AIR Delhi 17885, we should see some good DXing from now on Lindsay.

Norris Sturgess Rotorua has veries back from Peking 9860 + lapel badge, Swiss International 21570, NHK 15235. good to hear from you Norris, keep it up, AFRTS (Dixon) 21570.Dubai 21700.

Tim Austin Buff has verifications back from VOA 25615, Pakistan 17662, I think we have all heard the Russian Wood-pecker from time to time, but I don't think the Soviet Union are going to take much notice of the ARA but there is no harm in trying. Tim has also been active collecting pennants from KBS. and KSA. reminding use that R Sweden will supply an attractive T-shirt for 131RCs. sorry your letter last month seems to have missed the mail.

SHORTWAVE BANDWATCH

with BARRY WILLIAMS of Auckland



Quality not quantity this month with some excellent catches reported on 60 metres . We could almost make up a band survey with all the contributions received . Dene Lynneberg and Tony Marr recently had a night at the Radio New Zealand monitoring station at Quartz Hill ,Wellington .For those interested in propagation note the time in the morning the Africans were held to . I have very rarely , heard 60 metre Africans to 2200, but never to after 2300 . Tony did mention that V beams and rhombics beamed South and South East were used .

The main logging of interest this month would be the tentative report by John Durham ofCape Verde on 3930 khz . A very rare station that is seldom heard here in New Zealand . For those of you who did not log Radio Clarin 11700 John Mainland has reported it back there again .Their QSL card would be one of the most attractive I have seen and well worth trying for .

Conditions appear to be good but patchy . Find the right day with no electrical storms around some good loggings can be made . From reports coming in reception conditions are certainly changing from day to day . Well good listening and let us know what you are hearing .

All times are GMT		Add 12 hours for NZ time		Freq. in khz.	
FREQ	TIME	COUNTRY	STATION	PROGRAM AND RECEPTION DETAILS	INITI
3395	1930	PAPUA NEW GUINEA	R.Eastern Highlands	, VG at s/on in Pidgin. New freq. ex 2410 khz . Also noted nights 1000 under Zaracay.	BC
3905	1445	PAPUA NEW GUINEA	, R.New Ireland	to close at 1300 . Moved here from 2428 khz .	AC
3930	2002	CAPE VERDE	,(tentative)R.Voz de Sao Vicente	, Portuguese program heard poor to fair level, under Numbers station . Fade out 2016 .	JD
3945	0800	VANUATU	, R.Vanuatu	VG with news in English .	JW
4000	1845	CAMEROON	Bafousan	, Good strenggh with English program .	JD
4680	0600	ECUADOR	,R.NACIONAL ESPEJO	,Quito , VG in SS , songs & anncs.	QH
4765	0618	LIBERIA	ELWA Monrovia	, Poor level in English .	JD
4770	0500	NIGERIA	Kaduna	, Fair with popular music . News 0500 1804 Good with news in English . Signal heard right through to 2300when still being received at fair level .	JD LR QH
4775	2215	INDONESIA	RRI Jakarta	, Fair in Indonesian . Not often heard at this time . (That's an understatement ,Dene ' . Ed.)	QH
4777	1640	GABON	Radio TV Gabonaise	,Libreville ,VG in French .Heard through to after 2300 // Still audible 2120 in French	JD // QH
4780	0932	VENEZUELA	La Voz de Carabobo	.Excellent with ads.& IDs .	PE
4785	2100	PANZANIA	Dar es Salaam	, VG signal before s/off /	JD
4790	0500	ECUADOR	Sistema de EmisAtalaya	, Fair with music & many IDs	LR
4790	1101	PERU	R.Atlantida	, VG with Commercials and pops .	PE
4800	2017	LESOTHO	,Maseru	,Program ,talks in vernacs. 1846 with news	PE JD
4806.7	0530	SAO TOME	R.Nac. de Sao Tome	, fair at s/on in Portuguese . Deep gong and Anthem followed by music till 0600 then news . Also noted around 2230 to s/off 2300 . / Fair at s/on 0530	JD
4810	0800	PERU	,R.San Martin	, now 24 hours with strong signal .	LR JM AC
4812	2110	GABON	, Moyabi	, still audible in French past 2130 . Also 0500 JD 0600 " Africa No 1 " good in French . Also heard to s/off at 2300 on rhombic 136 degrees .	QH AC
4818	0930	COLOMBIA	R.Guatapuri	, music to 1000 then ID and farmyard noises . /Good at 1006 with commercials and music .	PE
4820	2030	ANGOLA	,R.Nacional Luanda	, Fair with Portuguese program .	JD
4830	2020	GABON	Franceville	.Poor /fair with music and annoucsin French	QH JD

FREQ	TIME	COUNTRY	STATION	PROGRAM & RECEPTION DETAILS	INITs
4830	1638	GABON	Franceville	good with native native vocals . Announc. in French . Not // 4777 at this time . Heard through to s/off 2300 when signals still fair .	QH
4835	0500	SOUTH AFRICA		SABC news in English then wx & music	AC
4838	1852			UNIDENTIFIED ,mainly spoken items monitored to past 2025 .	JD
4845	0600	MAURITANIE		No-akchoutt, usual excellent signal every night	JD
4845	1928	INDONESIA	RRI Ambon	excellent running late for Ramadan , Other Indonesians heard at this time ,3215,3223,3250,3265, 3368,3935,4853 & 4891 khz .	BC
4850	0508	CAMEROON	Yaounde	fair in French with Highlife music .	JD
4850	1130	ECUADOR		Luz y Vida Coomercials music , news to past 1200	PE
4855	1142	COLOMBIA	R.Neiva	Poor with mx prog. Faded 1200	PE
4855	1800			UNIDENTIFIED , BBC world news then music till s/off with anthem 1830 Noted one morning 1/7 with BBC international report and s/off 1839 . QRM Yemen 4853 .	PR
4860	2034	ANGOLA	R.Nacional	Poor in Portuguese to past 2050 .	JD
4865	0902	COLOMBIA		La Voz Cinaruco , VG with pop music .	PE
4870	0530	BENIN	Cotonou	Fair French . Most regular African .	JD
4870	1000	VENEZUELA		R.Tropical , Opens with fair signal .	AC
4880	0510	SOUTH AFRICA		SABC Just audible in Africaans .	JD
4890	1115	PAPUA NEW GUINEA		NBC , Copra price report , English .	JB
4895	0956	BRASIL	R.Bare	VG Portuguese .1000 Full ID ,call etc then news	QH
4896	0500	PERU	R.Chanchamaya	Poor ID & s/off with Anthem . 12/6 only	OC
4905	2220	BRASIL	R.Relogio	earliest Brazilian to fade in . Fair with news and time pips each minute .	QH
4910	0505	GUINEA	Conakry	Poor level with French program .	JD
2915	0600	GHANA	Accra	Fair level with news in English .	JD
4926	0510	EQUATORIAL GUINEA		Bata , R.Equatorial , Mainly speak prog.	JD
4934	1830	KENYA	Nairobi	excellent copy with usual music program .	JD
4945	0300	BOLIVIA		R.Illimani , La Paz , excellent signal . IDs then news VG to s/off 0400 PE /	QH
4945	1115	COLOMBIA		R.Colosal . Very strong Spanish .	JB
4965	2052	NAMIBIA	Radio SWA	Fairly good in dialect with easy listening music . 2143 with English ID " stay tuned to all night service of Radio South West Africa ." .Still there 2315 with fair sig. 2016 vG in clear PE / 0520 Poor German . light music program	QH
4980	2255	GHANA	Ghana BC Corp.	fair English heard to s/off just after 2300	JD
4990	1829	NIGERIA	Lagos A	Very good signal in English .	JS
4996	0445	PERU	R.Andina	IDs and music . Easy copy but not regular	OC
5000	2255	SOUTH AFRICA	ZUO	Time station .Fairly good with CW ID . (Put in to show exceptional propagation conditions at QH. Ed)	QH
5005	0456	EQUATORIAL GUINEA		R.Equatorial ,La Voz de Rio Muni . Fair with high life music .0502 full ID " "....R.Equatorial ,la Voz de Rio Muni ." .Spanish but later seemed to go into dialect.	QH
5005	1128	BOLIVIA	R.Cristal	Poor news 1130 . Several IDs . 1/7 .	PE
5005.7	0710	SURINAM	R.Apinte	Often heard Gospel program 0930 0825 Hindi program . ID 0911 " broadcasting station R.Apinte	PE
5010	0500	CAMEROON	Garoua	Fair at this time in French . 2138 fair signal . dialect with native vocals .	JD
5010	1610	SINGAPORE	Singapore BC.Corp.	English & easy listening music 1625 news in brief . Full s/off aunc. at 1630 .// 5052 & 792 MW.	QH
5030	1013	VENEZUELA	R.Continente	Fair Spanish .	NS
5040	0500	COLOMBIA	R.Cinco	Full station identification and IDs .	AC
5047	0530	TOGOLAND	Lome	Good level at s/om in French .	JD
5056.7	0810	BRASIL	R.Maua	Good with IDs ,time checks . Portuguese .	QH
5095	1040	COLOMBIA	R.Sutatenza	Fair signal . IDs and music .	NS
5612.9	1222	LAOS	Xieng Khouang	Province National Radio . Relay Vientiane in Lao .News to 1230 then music . 1300 into Lao Soung .	QH
				(For those using Racal receivers the accurate freq. is 5662.935 Khz)	

FREQ	TIME	COUNTRY	STATION	PROGRAM & RECEPTION DETAILS	INITs
5882	0400	ARGENTINA	R.Rivadavia	Time sig.& ID . Pop music to 0430 .	AC
5930	0425	CZECHOSLOVAKIA		Prague , Fair , Spanish to S.Am.	JB
5950	0430	NICARAGUA	R.Nacional	Fair SS . /Good talks and music .	JB LR
5960	0540	GERMAN FED.REP.	DW	Poor English to NAM.	JB
5975	0830	BRASIL	Guaraja	Good in Portuguese . Religious .	JB
5985	0535	USA	WYFR	English Gospel to Canada , Poor .	JB
5990	0425	ITALY	RAI	English news to Med. Fair , // 7275 khz	JB
6005	0415	ASCENSION		BBC relay , World Service , Fair	JB
6005	0805	CANADA	CFXC Montreal	fair English with talk program . No sign of Costa Rica this evening .	QH
6012	0415	ANTARCTIC	AFAN	Poor to past 0530 . . / 0624 regular sig.	JS BC
6017	0910	COSTA RICA	R.Reloj	Noted here on 9/6 but back on 6006 khz on 15/6 . (appears to be moving around quite a bit .Ed.)	QH
6020	0800	BRASIL	R.Universo	Curitiba , Heard after VOA closes .	AC
6020	0930	NED.ANTILLES	Bonaire	RN , s/on Dutch . VG over R.Moscow .	QH
6025	1125	BOLIVIA	R.Illimani	Excellent with full ID . " R.Illimani , La Voz de Bolivia " . News followed . (Heard on Rhombic ant. 136 degrees . On reverse beam of rhombic 325 degrees of the rhombic Singapore heard in Chinese well over Bolivia .)	QH
6045	0835	AUSTRALIA	RA	Papua N.Guinea service , News in English	NS
6055	0545	PERU	R.Continental	Fair with music .	LR
6060	0736	ARGENTINA	R.Nacional	Very good signal Spanish	JS NS
6125	1227	INDIA	AIR	News 1230 , QRM .	PE
6195	0932	PERU	R.Cuzco	Heard through to 1020 15/6 . No sign of BBC Antigua this night . Spanish usual programing . Slight het.	QH
6195	0957	ANTIGUA	BBC Caribbean	relay , Bow Bells followed by local ID. Relay of BBC world news . 16/6 no sign of Peru this night	QH
6550	1730	LEBANON	Beruit	Good with news and light music .	LR
7185	0437	GT.BRITAIN	BBC	BBC World Svce. Good , Also 7210 at 0300	JW
7275	1935	ITALY	RAI	Fair with news then music . // 9710 khz . Some QRM	BH
9022	1930	IRAN	Teheran	Opens in English with Koran .	BH
9485	0349	PERU	R.Iacna	Spanish annos. & music , Fair , 19/6	JM
9495	0430	MONACO	TWR	Gospel in Armenian . Fair sig. New Frequency	JM
9505	2005	AUSTRALIA	RA	VG , World and Pacific news .	JW
9535	1130	PHILIPPINES	R.Veritas	Asia , English to 1200 , new freq.	AC
9585	0300	SOUTH AFRICA	RSA	Fair with English news to US .	BH
9610	2030	TAIWAN	VOFC	Clear signal , English to Europe and Africa	AC BH
9650	0800	SPAIN	REE	Testing Spanish to Australia .// 9585	AC JB
9650	0345	GREECE	Athens	English news then Greek to 0355 .	AC
9665	2130	INDIA	AIR	GOS in English . Fair on new frequency .	JM
9715	1200	USSR	Uzbekistan	Tashkent , English fair // 11785	AC
9750	0715	TAHITI	FR3	Fair in French , Music to 0728 then full ID & s/off in FF and Tahitian . National Anthem . Some splash HCJB	QH
11700	0329	DOMINICAN REP.	R.Clarin	Spanish ID and music , Fair signal	JM
11735	0220	USSR	Ukraine	R.Kiev , Good in English , DX program .	JW
11770	0750	NIGERIA	Lagos	Test transmission to East Africa .	JM
11840	0826	GUAM	KPWR	Fair with Gospel	JW
11840	0337	GERMAN FED.REP.	RBI	Weak in English , News .	BH
12060	2330	USSR	Ukraine	R.Kiev , Good English // 17870 khz .	JS
15110	1500	VATICAN	HVJ	Religious to Asia , Fair signal .	BH
15140	0819	NORWAY	Oslo	Local news in English , Heavy QRM	JW
15195	0048	BELGIUM	Brussels	Local news , interviews to s/off 0100	JS JW
15250	0900	GREECE	Athens	Greek to Australia , // 17895 khz , // New freq	AC
15285	0404	BULGARIA	R.Sofia	World news in English , Good signal	JW
15320	2100	SWEDEN	Stockholm	English to 2130 , fair .	AC
15350	0555	ZAIRE	Kinshasa	Spoken prog.French . news 0600 , poor , 23/6	JM
15560	2136	UNIDENTIFIED		R.Nederland , Very strong in Dutch . Location ?	JS
17695	1930	GERMAN FED.REP.	DW	English then French 2000 , Good .	JB
17780	0529	SOUTH AFRICA	RSA	French , weak but clear .	NS
17825	2142	BULGARIA	R.Sofia	Stong in Spanish after Ebglish prog.	JS
17870	2330	USSR	Ukraine	R.Kiev , s/on in Ebglish , VG .	BC

18

FREQ	TIME	COUNTRY	STATION	PROGRAM & RECEPTION DETAILS	INITS
21525	0328	USSR RM		Sports results folowed by news , English , good .	JW
21530	0500	SAUDI ARABIA		Ridyah , Arabic , strong .	JB
21585	0300	IRAQ	R.Bagdad ,	Excellent signal , English news to 0315 ,	OC
21595	0800	SPAIN	Madrid ,	Testing to Australia Spanish / s/on 0830 Sun.	AC
21685	0500	KUWAIT	R.Kuwait ,	Strong Arabic .	JB
21685	2030	NEDERLAND	ANTILLES RM	, Fair with Ebglish to Africa ,	BH
21710	2320	IS'RAEL	IBA	,Yid'ish , strong to s/off 2325 .	JB
25730	1110	NORWAY	Oslo .	Norwegian strong // 21730 also strong .	JB
25100	2115	UNIDENTIFIED		.Chinese/English lessons ; no ID Has been heard at different times with Chinese prog. No IDs. wrote to R.Peking who disowned transmission . Possibly VOA ? (anyideas)	JS

Our thanks to all contributors .More loggings than I first thought so had to edit out some . Certainly some interesting catches .
 JS Jack Searle Haumoana ; JB Jim Benzoni Hamilton ,
 OC Owen Cullen Hikurangi ; AC Arthur Cushen Invercargill
 BH Bill Huddleston Auckland ; JW Jim Webb Manakau
 BC Bryan Clark Auckland ;NS Norman Sturgess Rotorua
 PR Paul Rawdon Eastbourne ; JM John Mainland Wellington
 LR Lindsay Robinson Invercargill ;PE Paul Edwards Wellington
 JD John Durham Hamilton ;QH Quartz Hill /Dene Lynneburg /Tony Marr

Shortwave trail of the Auckland Branch's DXpedition to Wiau Pa on 5th July . Members attending for the weekend were ; Brian Marsh using a Drake SPR4 ,Barlow Wadley and a KRS Active antenna ;Tom Rushbrooke witha FRG-7700 ; John Schot with a National DR-28 ; Jim Gorman using a FRG-7700 and DR-28 and Arthur De Maine with his FRG-7700 and Sony ICF-6800W . (Iwas at home with the flu.Ed !)

GMT	FREQ	COUNTRY	STATION	DETAILS
0131	9770	Austria	ORF	"Report from Austria " Fair ,English
0200	9585	Hungary	Budapest	English ID and news , good
0502	5980	South Africa	RSA	, Music , talk in Lozi , fair
0515	6060	Argentina	R.Nacional	, Spanish ID , good
0534	6012	Antartica	AFAN	Rock & Roll music , poor .
0600	4765	Liberia	ELWA	English , religious , good
0624	15120	Nigeria	VON	, Letters from Listeners , good , English
0645	11930	Liberia	ELWA	, Religious and music , Good English
0800	15150	Indonesia	BRI	,ID and freq. in English ,news and music , good
0800	6000	Brazil	R.Inconfidencia	. Spanish ID , fair
0828	15435	China	R.Peking	, English news and documentary , good
0900	6055	Japan	JOZ3	good with talk in Eng/Jap.
0930	5955	Colombia	, La Voz de Centauros	, Spanish , frequent IDs .
0930	11840	Japan	NHK	,English news and cunture program .
0945	4832	Costa Rica	R.Reloj	, Spanish ID , fair
1000	4774	Indonesia	BRI Jakarta	, music , good
1100	5980	Taiwan	, Voice of Asia	, English ID ,News and music program .
1102	11815	Bonair	PWR	, Breakfast show in English . Good .
1127	11835	Sri Lanka	s/off with English ID	. Very good .
1140	11835	Haiti	4VEH	Gospel in English . 1159 , fair to poor
1203	11938	Kampuchea	Poor	English news .French 1215 , fair
1220	6383	Mongolia	, Ulan Bator	,English ID then news , VG
1300	9977	North Korea	, English news & propaganda	, strong .
1328	4940	Sri Lanka	Under Peking	, very weak .
1333	11810	India	AIR	English news and current affairs , good
1900	4990	Nigeria	VON	English news , ID 1905 , fair
1930	15125	Brasil	R.Bras	Music and talks English .
2100	7170	New Caledonia	Music and ID french	, good .
2130	15320	Sweden	, R.Sweden	, English sign off .
2140	17890	Taiwan	VOFC	ID freq, news in English , fair
2200	15175	Norway	, R.Norway	, Request program ,Norwegian

A new Brazilian has been noted on 6020kHz, a switch of frequencies in Papua New Guinea and tests from Madrid are highlights this month, while the Red Cross advise of tests on July 28 0945-1015 on 9560, 15305, 21520, 21695kHz. As broadcast on the External Service of Radio New Zealand on Monday July 6, at 0315GMT on 15485, 17860kHz and at 1015GMT on 11945kHz. All times GMT and frequencies in kilohertz.

ARGENTINA: Radio Rivadavia 5882kHz heard closing at 0400 with a full announcement after time signal and popular music. On some occasions they broadcast as late as 0430GMT.

AUSTRALIA: Radio Australia's new programme 'Spectrum' compered by Dick Speakman formerly of DX Juke Box of Radio Netherland is a new programme for short-wave listeners and broadcast on the first Sunday of each month from Sunday July 5. It will be heard at 0612, 0810, 1612, 2112 and on Monday at 0112 on Radio Australia's usual frequencies.

BRAZIL: 4975kHz Radio Timbira heard closing at 0500. On 6020kHz a new station Radio Universo in Curitiba has been heard at 0800GMT after VOA closes.

CHILE: Radio Nacional 9550 heard on Mondays with sports programme at 0400.

COLOMBIA: On 4817 Radio Guatapuri heard with music at 0930 opening 1000 with march followed by sound of farm animals. On 5040kHz Radio Cinco heard with full identification at 0500.

COSTA RICA: Radio Reloj has returned to 6006kHz from 5950kHz and heard at 0800GMT.

ECUADOR: HCJB Quito has made the following frequency changes: 17875 replaces 17885 0030-0200 in English; 17790 replaces 17835 1600-2200 and 15285 replaces 15305 2200-2230.

GREECE: Athens broadcasting in Greek and English to Australia 0900-0950 on 15250 and 17895, and also noted 0200-0350 on 9650 English 0345 but mixed with VOA.

KIRIBATI: Heard on 16430 in SSB and programme includes BBC World News at 0700 then local news 0710 followed by commercials and music and at 0720 local language programmes heard. The station closes at 1010GMT. Also noted at 1900GMT with a relay of news from Radio Australia.

PAPUA NEW GUINEA: Two Stations have switched frequencies and one has opened on a new frequency recently. On 2428kHz replacing 3905 is Radio Manus; on 3395 replacing 2410 is Radio Eastern Highland, and on 3905 replacing 2428 is Radio New Ireland.

PERU: Radio San Martin 4810 now seems to operate all night and is received very well at 0800GMT.

PHILIPPINES: Radio Veritas Asia 9535kHz with English 1130-1200 with the overall transmission 0930-1605. They also announce 11770 and 15215kHz. The English broadcast 0030-0100 is now on 17780kHz.

SPAIN: Madrid in Spanish to Australia opening at 0800 is testing on 9650 and 21595. They are also using the regular frequencies 9585, and 11730kHz.

TAIWAN: Voice of Free China 9610kHz opens 2030 to Africa and Europe, and according to Douglas Doull they have announced a power increase in August.

TURKEY: Ankara using 11770kHz in English 2200-2300 replacing 11895. They also use 9725 and 9725. The other English broadcast 2030-2130 is only on 9725.

U.S.S.R.: Tashkent in English 1200-1230 and 1400-1430 now uses 5950kHz, 9715, 9750, 11785 and 15460.

SOUTH AFRICA: SABC heard on 4835kHz with news in English at 0500GMT then weather and music programming 0515GMT.

..sign off..

with JOHN MAINLAND

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BULGARIA Radio Sofia EE:0000-0100 15330,15110;0400-0500 21495,15285, 11735;0400-0500 11750;0730-0800 9590, 11970,15160;1830-1930 17825,17755, 15310,11735;1930-2000 15110,11720; 2030-2130 17825,17755,15310,11735; 2130-2200 15135,11750,11720; 2230- 2330 15330,15110. **BBC MS 28/5**

ARAB REPUBLIC OF EGYPT The European programmes of Radio Cairo's external service have been observed one hour earlier. Programme times are now: 1800-1900 Italian,1900-2000 GG,2000- 2115 FF,2115-2245 EE all on 9805. **BBC MS 28/5**

CHINA Recent surveys of some provincial and regional radio stations indicate the following frequency usage for the summer months: **Changchun, Jilin** 7090,6070,3310; **Shenyang, Liaoning** 4830; **Hohhot, Nei Monggol (Standard Chinese)** 9750,7300,7105,3970; **Mongolian** 9520,6974,4010,4000. **BBC MS 28/5**

AUSTRALIA Late in May Radio Australia announced in the English service that the Carnarvon transmission 1800- 2000 on 21630 would be deleted from 1 June due to unsatisfactory reception in Europe. **JM**

NEW ZEALAND According to a spokesman for Radio NZ the external service is seriously considering programmes in Japanese for the increasing listening audience in Japan.

HOLLAND June 16 was the last day of broadcast for Radio Nederland's EE programme "His and Hers" which had been presented for the past 18½ years by Dody and Jerry Cowan. **via RN 9/6**

VOICE OF NIGERIA'S North Africa and Overseas sce operates on 15120 EE 0600-0800,0830-1700,1800-1900,2100- 2200;FF 0500-0600,1900-2000;GG 2000- 2100;AA 0800-0830,1700-1800.

RADIO ZAMBIA'S external sce operates on 7250 1555-2105, the station is currently inactive on 9580,11885 & 17895.

NICARAGUA has registered 11840 with the IPRB for a service to Europe & North Africa between 2300-0400 using 100 kW.

RN DX 11/6

LESOTHO The BBC relay station has made a frequency change,7250 has been replaced by 6130 1645-2030. **RN DX 11/6**
CYPRUS At the moment the East Mediterranean relay station of the BBC has to rely on shortwaves to pick up signals from London. An agreement has been signed to use satellite links from sometime in 1982. **via BBC 12/6**

U.S.S.R., Radio Moscow, World Service EE partial sked:0700-0730 21740,21715,21690, 21600,21565,21490,21450,*19725,*18653, 17880,17835,17765,15535,15465,15440, 15425,15415,15375,15360,15320,15280,15265, 15220,15210,15185,15140,15130,15110,12055, 12010,11975,11960,11830,9785,9600,9490, 9450;1200-1230 21740,21715,21615,21535, 21490,21450,17850,17845,17765,17700,15540, 15465,15440,15375,15320,15295,15280,15210, 15150,15135,15110,12000,11975,11830,11770, 11745,11720,9795,9785,9765,9490,9450, 7493,6050,6020;2100-2130 17700,*16193, 15535,15505,15455,15425,15415,15265,15245, 15230,15100,12075,12055,12050,12000,11960, 11950,11860,11840,11820,11745,9795,9640, 9470,7330,7140,6020.*SSB **BBC MS 11/6**

UPPER VOLTA An international service is being planned for emigrants on the coast especially in the Ivory Coast. **RN DX 18/6**

MIDDLE EAST The Muslim Holy month of Ramadan starts in July, during this period most stations in the Arab World will have modified skeds. **A. Sennitt RN DX 18/6**

ISRAEL Galei Zahal 14728,18129,24 hrs. A source in Tel Aviv reports that it is an overseas feed to embassies as a back up source of direct news in view of labour disputes which have hit the regular Kol Israel external service. **RN DX 18/6**

LA VOZ DE NICARAGUA 5950kHz has the address Apartado 248, Managua, IRCs are not valid in this country. **RN DX 18/6**

VOICE OF FREE CHINA is noted at 2030-2130 in EE on 9610 to Europe and Africa, this broadcast was formerly 2130-2230 and has //17720,15225,11860,9765. **JM**

VOICE OF VIETNAM EE:0700-0800 9840,7512; 1000-1030 12027,10080;1100-1130 12027, 10080;1330-1430 12027,10080;1530-1630 11840,10040;1800-1900 15010,10040;2030- 2130 15010,10040;2330-2400 12027,10080. **BBC MS 25/6**

CUBA Radio Havana, broadcasts from USSR: 1500-1600 AA 17710,1600-1700 FF 17710, 1700-1800 EE 17710,1800-2000 SS 17710, 15385;2000-2100 PP 17710,15385;2100-2200 FF 17795,11705;2200-2300 EE 11705. **BBC MS 25/6**

CHINA Since 15th June, Radio Peking's EE service to Eastern North America is noted 0000-0100 on 17855,17680,15520,15120, 10865,8240.

BBC MS 25/6