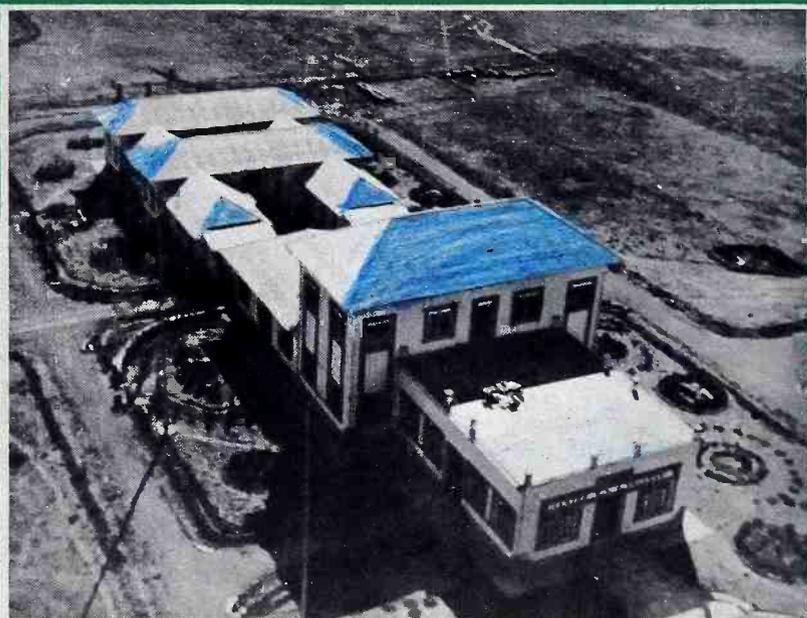


THE GLOBE CIRCLER

SEPTEMBER 1936



A Rare Photograph Showing
RADIO STATION AT AKAKI, NEAR ADDIS ABABA, ETHIOPIA

ONE
DIME

INTERNATIONAL DX'ERS ALLIANCE

DEDICATED TO THE LATE A. C. LYELL

NEW IDA GUILDS

CONTEST ANNOUNCEMENTS

DX AROUND THE WORLD

ACCURATE SHORT-WAVE LIST

BROADCAST STATION NEWS



Reichssender Königsberg
Heilsberg, Germany

ARGENTINA Corrected addresses: Radio Fenix, LR9, Talcahuano 1186, Buenos Aires; Radio Portena, LS4, Belgrano 1841, Buenos Aires; La Voz del Aire, LS9, Maipu 550, Buenos Aires.

AUSTRIA Graz (886kc), power decreased to 7.5kw (Stansfield).

AUSTRALIA 2DU, Dubbo, N.S.W., 1060kc, 100w is on the air.. 2NR, Northern Rivers Regional, Lawrence NSW, 700kc, 7½kw, is now relaying 2BL and 2FC on regular schedule.. 6GF, Kalgoorlie, WA, will be completed about January 1937 .. 6WA, Minding, WA, 560kc, 10kw, should start operating in November, 1936 (GRDA, McCormick)

BULGARIA New-Zagora, on 1402kc, with 2kw (Stansfield)

CANADA Honorary board of nine governors representing all parts of Canada, with a system modeled after the BBC, will supplant the present Canadian Radio Commission, which has been existing for about four years

CHILE Chilean stations now divided into zones: CA for northern, CB for central, CC for southern and CD for extreme southern zone (LH)

C.R. Correct frequency of TIEP on BCB is 880kc (Gozen)

EGYPT New-Assiut, on 731kc, power unknown (Stansfield)

FIJI'S Correct frequency of ZJV, Suva (400w), is 920kc (McCormick)

FINLAND New-Vasa Vassa, on 1420kc with 500 watts (Stansfield)

FRANCE Radio Cote D'Azur (1276kc), power increased to 27kw (RS)

GERMANY New 300kw, Long Wave station to be built at Zeesen. Entire plant will be underground with only the aerial tower visible (E.Radio)

ICELAND Reykjavik (208kc); 18kw, broadcasts weather forecasts in Icelandic, English and German at 6 am; is also on at 11am and 3:10 p.m. Broadcasts last until 8 pm EST on Fridays and Saturdays. The call is "Ootvarp Raykyawek" (Egyptian Radio)

INDIA Four broadcasting stations will soon be completed in Hyder abad and several thousand receiving sets are being installed in villages throughout the state by the Nizam (Egyptian Radio)

N. Z. New 60kw national station at Wellington should be testing in October or November. No frequency has been allotted the station yet. .. 2YA (570kc), 5kw, will serve as an auxiliary.. 2YC (840kc), will be used for commercial purposes.. 2ZR, Nelson (920kc), 50w, back on the air. .. 2ZM, Gisborne (1150kc), increasing power to 250w.. 2ZJ, Gisborne (980 kc), increasing power to 500 watts. Under new radio set-up all B stations will receive power increase and C stations be used for advertising. Relay BC stations will be erected for all main towns (McCormick)

NORWAY Tromso to move to 282kc with power increase to 10kw.. Aalesund to move to 253kc with power increase to 10kw (Stansfield)

PORTUGAL New CT1GL at Parede (1030kc), with 30kw will take air soon

P.R. New station at Mayaguez, will operate on 1370kc, with 250w day power and 100w night power. Owned by Puerto Rico Advertising Co.

TUNISIA Poste Bizertin at Bizerte, works on 1430kc daily from 6:15 to 7:30 a.m. and from 1 to 1:30 p.m. EST (Mercieca)

URUGUAY Servicio Oficial de difusion radio electrica of Montevideo is erecting a 50kw station, which will operate on 650kc (E.R.)

U.S.A. New station will be erected at Carlsbad, New Mexico, to operate on 1210kc, with 100 watts.. Changes authorized by the F.C.C: KSUN, Lowell, Ariz., 1200kc, increase day power to 250w.. WOL, Washington, D.C., will move to 1230kc, and increase power to 1kw.. WMEX, Boston, Mass., will move to 1470kc, increase night power to 5kw and day power to 5kw.. WLW, Cincinnati, Ohio (700kc), will operate with 500kw at night using directional antenna.. WLBK, Kansas City, Kans., 100w, to move to 1310kc.. KWSC, Pullman, Wash., 1220kc, will increase day power to 5kw.. KECA, Los Angeles 1430kc, inaugurated its new 5kw xmttr on August 20.

EST		DX TIPS PERIODS		EST
Weekly	Tues. 1-1:30am	1300kc	1kw Los Angeles, California	KFAC
Weekly	Tues. 5:35-6pm	9530kc	SW Schenectady, N.Y.	W2XAF
Weekly	Fri. 10:30 or 11pm	980kc	50 Pittsburgh, Pennsylvania	KDKA
Weekly	Sun. 1-1:15 am	930kc	100w Calgary, Alta, Canada	CFAC
Weekly	Sun. 1-1:15 am	640kc	50 Los Angeles, California	KFI

DX AROUND THE WORLD

HAWAII: Reception conditions have been ideal this summer. It has been cool and very rainy, with little static, however KFI, KPO, KSL, KNX and KOA, our main coast standbys have not been coming in nearly as well as usual. On the other hand, reception of the high powered BCB stations in Australia and N.Z., is above the average. (Laurence Giddings).

WESTERN U.S.A.: Still hearing a fair signal from 1YA and 4YA. Sometimes 3YA can be heard faintly and 2YA does a bit to liven things up occasionally. I got my best signal of the year from 4RK early in July (Elwin Smith, Washington).

AUSTRALIA: Conditions poor on all bands. Japanese BCB stations are heard changing about and testing on new frequencies. Best orientals are: XGOA, MTCY and HS7PJ. Best short-wave stations have been W8XK (25m) and W2XAF near 8:30am, and Radio Coloniale from 12:45-3pm (EAT). Best 20m hams have been W2EUG, XE2OH, KALAN, G5NI, W3AHS, W9LD, W9BBU, W9LP, W8JSY, W9BJ, W4AH, W9RUK and W4DRC (Preece and Brown, SA; P. Geppert-P. Carrick, NSW).

D. E. I.: Reception of U.S.A. during this rainy season has been wonderful, but quite changeable at times. During the evening, I hear W3XAL (16m), W2XAD and W8XK (19m). Australian stations are good with VK3ME best. JVN is best Asiatic. Also hear KZRM and ZBW. RV15 is seldom heard, but RW59 comes in like a local, as does Zeesen, Pontoise, Daventry and PCJ/PHI. Best reception is from Daventry (Abderhalden, Moluccas Is).

GT. BRITAIN: Reception has been surprisingly good, especially South Americans. Static has been low and little fading. Stations best heard were: LR1, LR3-5-6-8-9, LS2-5-8-9, PRF3-4, PRH2-3-8; WCAU, WIOD, WBZ, WABC and KP5D (Stansfield, Woking, England).

EASTERN CANADA: South Americans have been fine this summer. LR3-4-8 and 10 all have been heard Sunday mornings with late programs, which seem to come from night clubs. LS2, LR5 and LR8 can easily be distinguished on the hour by the striking of a big clock similar to Big Ben. Have been hearing mystery Latin's on 1210 and 1260kc (Peters, N.S.)

EASTERN U.S.A.: South Americans have been grand this summer, being at their best late Saturday nights or Sunday mornings. Several new Brazilians logged and reported include: PRD4 (250w), PRF4, PRD2 and PRH8. Argentinians reported were: LS3-9-10 and LV5 and LT3. Also reported CX6 and HIR9. Now have 28 SA's verified with several reports still out. Veri' from LT3 says power is now 10KW. TA's are beginning to show up with 1YA, KGU-KGMB-KHBC, 3GI and 2BL heard so far (R.H. Tomlinson, New York)

	W	KC
<u>FJP</u> , Noumea, New Caledonia	500	600
<u>ZJV</u> , Suva, Fiji Islands	400	920
Fiji Broadcasting Co.		
<u>4PM</u> , Port Moresby, Papua	100	1350
Amalgamated Wireless (A/sia), 47 York St, Sydney, Australia.		

BEST VERI'S REPORTED RECENTLY
3XY, Melbourne, Australia. 600w.
 Joel Armantrout, Fitzgerald, Ga.
JOVK, Hakodate, Japan. 500w.
 Howard Eck, E. Lansing, Michigan.
LS9, Buenos Aires, Argentina. 6kw.
LS10, Buenos Aires, Argentina. 6kw.
 Gleiwitz, Germany, 5000 watts.
 R.H. Tomlinson, Port Chester, N.Y.

SUPREME BROADCAST DEGREE SUGGESTED
 R. Tomlinson, of Port Chester, N.Y. suggests a DBC (Doctor of Broadcast), be inaugurated as the highest broadcast band degree and similar to the DSW on short-waves. At least 100 BCB veri's representing at least two from each continent would be necessary-- Ed.

THOMAS VS. AMLIE RECEPTION DUEL
 Details of the two-man contest between D. Thomas of Proctorville, Ohio, and O. Amlie of Philadelphia, for consecutive reception reports to VK6ME, of Perth, Australia, have just about been settled. Contest to cover months of Jan-Feb-March. All reports to be sent to IDA HQ for forwarding in one bunch. Listening period will cover same half hour each day and all reports will be forwarded not later than 9 a.m. of the same day. Interest on the outcome is running high, and John DeMyer has already offered a one-year subscription to the winner.

PUBLICITY COOPERATION SOLICITED
 Every IDA member who will aid Publicity Vice-Pres., Jas. Spalding, 3226 Virginia Ave, Louisville, Ky, to the extent of contacting your own local newspaper or radio station for a little IDA announcement, get in touch with Mr. Spalding at once and the announcement will be sent.

Subscription price \$1.25 per year anywhere.

International



Ax'ers Alliance

Published Monthly Excepting July

CHARLES A. MORRISON
EDITOR

VOLUME 4

BLOOMINGTON, ILLINOIS, U. S. A.

NO. 8

EDITORIAL

Another DX season is with us. It is our hope to make this the great est IDA year yet. We are doing our utmost to make the IDA and the GC increasingly valuable, by the addition of new departments, more activities and more concise and accurate news. Our Goal is to double our membership enrollment this season. This CAN BE DONE but it is necessary for EACH member to do his or her part. Your co-operation and support can best be shown in these two ways: Enrolling of new IDA members and paying your own subscription renewal promptly. The IDA is the world's only Honorary All-Wave Society. The IDA has members in 45 states of the U.S.A. as well as in 55 foreign countries. Why not explain the advantages of our International Good-Will DX Organization to your friends? We cordially solicit your co-operation throughout this season.

Charles A. Morrison, Pres.

GLOBE RADIO DX'ERS (Australia). Things are going satisfactorily here. We are averaging at least 3 new members each month. We have appointed "Telradio" as our GRDA-IDA official organ for Australia, in appreciation of the generous space and headlines they have allotted us. Any matter pertaining to the Australian IDA should be referred to A. Preece, 61 Lipson St, Port Adelaide, South Australia.

REGINA JUBILEE- Chapter had a fair turn-out at August 9 meeting held at home of Robert Thompson. Wm Ansell gave an interesting talk on his recent visit to Calgary Foothills Chapter's Anniversary dinner. Plans were discussed for fall expansion and a permanent meeting place.

CALGARY FOOTHILLS- Chapter celebrated its first year of existence by holding a banquet at the York Hotel on August 3. Vice-President Wm. Ansell, from Regina, was the guest speaker. He presented prizes to the winners in the local S.W.

contest. Jim Mathews winner, received a splendid silver trophy, Jim Maguire second, a lovely cigarette box, Art MacLean third, a leather pocket book. The election of Chapter officers for the new year was also held, and Jim Maguire was re-elected president and Art MacLean was re-elected Sect-Treas. A short address was given by Wilf Woods on the progress of the local Chapter and Carman Bradley spoke on the IDA in general. Wm. Ansell concluded the evening with a fine address of encouragement to local members. Calgary Chapter has temporarily disbanded for the summer and will hold the next meeting on Sept. 14.

NEW CHAPTERS: are in immediate prospect for San Francisco, Minneapolis, Detroit, Halifax, Honolulu and Essex County, Massachusetts. For any information pertaining to chapters, contact Lloyd Westmoreland, IDA General Chapters Secretary, 2664 Garnet St, Regina, Sask, Canada.

CHAPTER CHARTERS printed in hand some three-color combination of green, brown and black with gold seals are now in stock at the HQ of the General Chapters Secretary. Every IDA Chapter will want an official Charter.

GOLDEN GATE WORLD DX CONVENTION
-San Francisco-July-1939-

Plans are going rapidly ahead in planning the international convention. Photos and information will soon be available for press use. It is hoped to have official Listening Post shacks both in the mountains and on the man-made islands in the bay, which will keep in contact with each other through ham radio. The exhibit at the World's Fair will include a collection of prize verified, first verifications and those from pioneer stations, exhibit of rare oriental and asiatic musical instruments, stamp collections acquired through dx'ing, photos of stations and DX posts, radio magazines, club organs and the very latest in receiving and transmitting equipment. For in-

formation about the convention, write the director, George G. Sholin 55 Lidge St, San Francisco, Calif.

NEW IDA GUILDS

Several other activities so nearly parallel that of dx'ing that I believe the IDA can render greater service and prove of increased value to its members by officially recognizing these kindred activities as divisions of the IDA and striving to bring the adherents of these various activities, within the IDA, closer together in the spirit of mutual helpfulness and interest.

We wish to announce the impending formation of these units: IDA RADIO JOURNALISTS GUILD; IDA STAMP COLLECTORS GUILD; IDA AMATEURS GUILD.

The IDA RADIO JOURNALISTS GUILD will be composed of the numerous well-known Radio columnists, editors and contributors that are members of the IDA. Only those actively engaged in one of the above categories will be eligible for the IRJG. The first organization step will be to have some journalist offer his services as temporary director of the unit to help in selecting a name, in making up a directory of those eligible for membership, securing permanent officials and other immediate details. Anyone willing to help in this capacity let me know at once. Remember, In Union There is Strength

In the formation of the IDA STAMP COLLECTORS GUILD, we first want every member who is at all interested in this subject, to send his name and address to us on a Postal Card, together with any suggestions and if possible offers of willingness to help in organizing the unit.

In organizing the IDA AMATEURS GUILD, we want the name and address of every member having an amateur license, together with details as to your call, rig, etc. If willing to help in organization work, let us know.

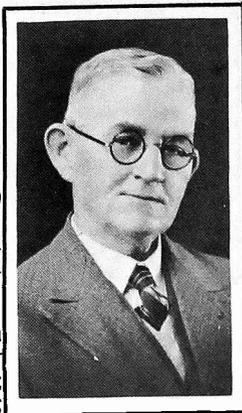
Each one of these Guilds, altho sponsored by and affiliated with the IDA will retain their separate identities and run their own organizations and later on, we hope, issue their own Guild Organs.

These Units will not be featured in the Globe Circler in fairness to those members who are dx'ers only. Suggestions will be most welcome.

IN MEMORIAM

It is with very great sorrow we must record the passing of A. C. Lyell, General African Representative of the IDA. Although 69 at the time of his death, he had the energy and enthusiasm of a youth. We are indebted to him for his activity in organizing and directing

our IDA branch in South Africa. Mr. Lyell placed high in two IDA World DX Contests and possessed a most enviable log. In business, he has occupied a number of important Government positions. Our deepest sympathy to the intimate family of our member and friend, A. C. Lyell.



NEW N. Z. COMMEMORATIVE STAMPS

N. Z. is having a special stamp issue in October to commemorate the "All World Chamber of Commerce Conference". These will be on sale during October only, so IDA members wishing same, send 3¢ or 5¢ cancelled U.S. stamps to L. McCormick 73 Baird St, Invercargill, N. Z. The stamp orders will be filled at the actual exchange rate of threepence for each 5¢ stamp. Send extra stamp for postage.

INTERNATIONAL DX CONTESTS

Separate World's Championship contests for BCB and SW dx'ers are starting Sept. 1, 1936, and closing on April 30, 1937. These contests are open to ANY DX'ER, whether belonging to the IDA or not. Send in your application at once together with 50¢ for each or either contest you may desire to enter to J. Dickenson, IDA Contests Director, P.O. Box 95, Regina, Sask, Canada. The awards in each contest will be well worth every effort put forth, but the exact list will not be divulged until December. When your application is received you will be given a number, a rating and a complete set of rules. This contest is being supported by leading radio clubs and periodicals and will be the biggest event of this kind ever put on. We expect every member to send in his application and co-operate by doing his best.

WITH OUR MEMBERS

(Correspondence Corner)

James A. Dunigan, 194 North St, New Britain, Connecticut, wishes to exchange SWL cards with other IDA members.

Floyd Hammond, Pleasant St, Dexter, Maine, would like to correspond with members in Egypt, Africa, Palestine or Iraq, but will answer any foreign letters.

Leslie Wilson, Taranski Club, New Plymouth, New Zealand, would like to obtain U.S.A. airmail and other stamps by exchange with U.S. members.

K. A. Abderhalden, c/o K.P.M. (Royal Packet Nav. Co.) Amboina, Moluccas, D. E. I., would like information from other members relative to the printing or obtaining of QSL or SWL cards.

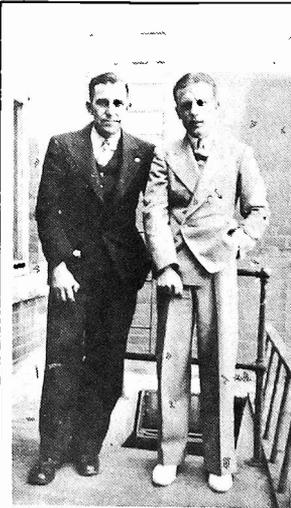
K. A. ABDERHALDEN
IDA REPRESENTATIVE
MOLUCCAS ISLANDS

Mrs. Charles A. Morrison, 1018 N. Prairie St, Bloomington, Illinois, wishes to exchange stamps, especially commemorative, air mail or pictorial issues, with members in ALL foreign countries.

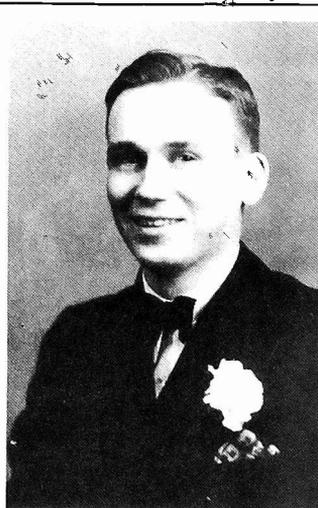
Log now stands at 80 countries verified. Have 17 or more veri's from each continent with Australia limiting me (DeMyer-Mich).. Latest veris here are Munich, Trieste, Cologne and TIPG (Goss-N.Y.).. On June 29, we added another dxt'er to our family. An eight pound boy! (Jas. Spalding, Ky).. Received a very pretty card and album from LVL, San Juan, Argentina. Hope it is a veri! (E. Smith, Wash).. Latest veri's here are LS10, LS9, LT3, Gleiwitz and Brussels 2 (Tomlinson, N.Y.).. Made a trip down to Calgary and had a fine visit with Jim Maguire and other members of the Foothills Chapter (E. Manning, Edmonton).. All members of the 2nd. IDA district please send me their verified BCB logs at once, as I want to put a revised honor roll for this district in the G.C. (Roy Myers, 4506 St. Elmo Drive, Los Angeles, Calif).. Have become a ham and have my own CW rig-W4EHH- on 3612 and 7224. Would appreciate reports or skeds (G. Magee, Birmingham, Ala).. Spent a recent Sat. nite with Dr. Kash, but we heard only PLP, JVN and 4YA. DX was poor (Shanks, Tenn).. Taking a trip to Nfld. and Labrador on a salmon boat and will stop in Boston on the way back (Grant, NS).. Now have 37 states and 18 foreign countries verified on 20m phone. Heard several Aussies and K6JLV/K6KKP (Pybus, England).. Have a special lamp warming cabinet made from a cigarette export case to keep tropical moisture from my set (Abderhalden, Moluccas)



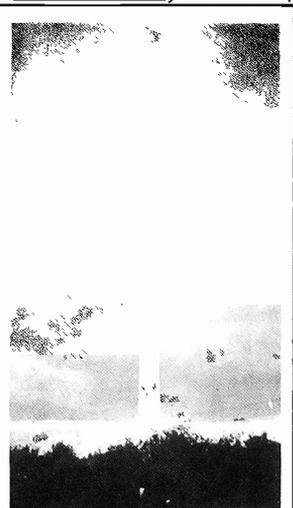
K. A. ABDERHALDEN
IDA REPRESENTATIVE
MOLUCCAS ISLANDS



Left: E. H. Manning, Edmonton, Alta. Right: J. Maguire, Calgary, Alta.



Raymond S. Swenson,
Rockford,
Illinois.



86 Foot Aerial Mast,
of E. H. Manning,
At Edmonton, Canada.

1936 / 1937 INTERNATIONAL DX CONTESTS
Sponsored by International Dx'ers Alliance, Bloomington, Illinois.
Short-Wave and Broadcast Contests Open to All Dx'ers.

STARTING, SEPT 1, at 12:01am your local time and ENDING, APRIL 30, 1937, at 12 midnight your local time. Verifications post-marked earlier or later than these dates will not be accepted

OBJECT: To find the Broadcast Band and Short-Wave Champion Dx'ers of the World for the season 1936/1937. The winner in each case being that dx'er who receives the greatest total number of points upon veri's submitted to the Contest Judge. Broadcast Band veri's will be limited to stations from 540 to 1570kc inclusive and Short-wave veri's limited to stations operating from 5500 to 22000kc inclusive. No CW veri's will be counted.

ENTRANCE QUALIFICATIONS: OPEN TO ANY RADIO ENTHUSIAST IN THE WORLD. Members of all Radio Clubs are cordially invited to participate in the contests. Enroll at once by sending entrance fee of 50¢ for either or each contest you desire to enter to IDA Contests Director, James Dickenson, P.O.Box 95, Regina, Saskatchewan, Canada.

AWARDS: Will be made to Continental as well as International Champions and special awards may also be made. AWARDS OF EXCEPTIONAL MERIT will make the entrants efforts worth while. A list of awards will be announced in the December Globe Circler.

RULES IN BRIEF: (Detailed rules, number and handicap rating will be to each entrant upon registration).

- 1- Veri's must bear words confirm, verify or some similar expression.
- 2- Envelopes or wrappers in which veri's were received must accompany veri's when sent to judge. NO VERI'S WILL BE COUNTED that do not have sufficient postage for their return.
- 3- Date of reception must be stated upon verification.
- 4- No BCB veri's will be counted that are from stations operating on a chain hook-up or relayed by a short-wave station, unless some definite means of identifying that particular local station was given. The same applies to short-wave stations operating in a chain hook-up.
- 5- If veri' enumerates the names of more than one station the specific one received must be so stated. Short-wave veri's stating more than one frequency must specify definitely which frequency was the one received.
- 6- No card verifications or courtesy cards will be counted unless eligible under the above rulings. NO short-wave courtesy cards from Daventry, England, will be counted.
- 7- The opinion of the judge and his associates will be absolutely final.

Scoring of Veri's: Each BCB veri' will be given an initial point rating of 10 points; each SW veri' an initial point rating of 5 points. Broadcast band veri's will be further eligible to additional points depending upon the distance and power of the station according to a fixed scale. Each short-wave veri' will be eligible for additional points depending upon distance of station according to a fixed scale. Each month the total number of points of each entrant will be compiled and be multiplied by the geographical handicap rating of that particular entrant for the total score of each contestant at that time.

NEW I.D.A. MEMBERS

A. Tyers, Brisbane, AUSTRALIA
C. R. Longrigan, Terang, AUSTRALIA
Rene Renaud, Oran, Algeria, AFRICA.
L. M. Desmares, Santiago, CHILE.
Mrs. Grace Belknap, Passaic, N.J.
Leslie Wilson, New Plymouth, N.Z.
George F. Smalley, Honolulu, HAWAII.

APPOINTMENTS

FRENCH GENERAL REPRESENTATIVE,

Ch. Guilbert, 35, Rue de l'Ecluse,
Deauville (Calvados), France.

SOUTH AFRICAN GENERAL REPRESENT,

Lindsay Young, 193, Venice Road, Durban, Natal, Union of South Africa.

STATE MANAGER,

New York-Edward Goss, Brooklyn.

Short-Wave News

On Sunday, Sept. 20, at 3 p.m. EST, all of the major broadcasting systems of the world will be linked together in one gigantic broadcast. Practically all of the powerful short-wave stations will be used to broadcast a program of American Folk music, which is to be the first in a series of world broadcasts, arranged by the IBU. The second will be in February and consist of a broadcast of the Tango carnival at Buenos Aires.

DSW Degrees have been conferred upon Messrs. John Deibe and Edward Goss. To further classify Doctor's of SW it has been suggested we issue printed seals to stick on the DSW degree as follows: a green seal to signify a minimum of 20 stations verified from each continent; a red seal for at least 25 verified from each continent and a gold seal for those fortunate enough to ever have 30 verified from each continent. Those in favor of this idea let me know.

Congratulations to Joe Miller, of Brooklyn, New York, for receiving one of the handsome short-wave trophies given each month by S.W. Craft.

We want short-wave news while it is sizzling hot. Do not hesitate to send us a short letter or postal when you hear a new station, change in frequency or unusual reception. Regular monthly short-wave reports should be in by the 17 of the month. Write on one side of page only, double space lines, divide items into continents and always state time used. Items of most importance are: new stations; frequency or schedule changes; commercial schedule tips; addresses, identifying signals, station photos and unusual receptions. Number of stars denotes importance of item. Four stars highest rating. How good a reporter are you?

(E. S. T.)NORTH AMERICA-CENTRAL AMERICA (Megacycles used)

ALASKA KIJW, 2.912, Shearwater Bay, 50w and KIJX, 2.912, Kodiak, 50w, have contact at 12:15am. KAED, 2.616, Angoon, works KAEP, 3.092, Tenakee, at midnight and works WXA, 2.604, Juneau, at 12:45am. KIJB, 2.994, Cape Pole, has schedules at 11:30pm, 1:30 and 2:30am (** Walcott)

CANADA VELIN, 14.288, aboard Schooner Bowdoin in Bay of Fundy, is being heard irregularly.

C.R. TIEP, San Jose, has been operating on 6.673mc, quite consistently (* Oxrieder) * TIGPH, San Jose, is now operating very close to 5.82mc (Oxrieder) ** TIPG, San Jose, "La Voz de la Victor", has moved to 9.55mc, where he is heard nightly (Graham) ** TI4NRH, approx. 9.685, Heredia, owned and operated by A. Cespedes Marin, is on the air again from 7 to 10 and 11:30pm to midnight (Gozen, Roberts, Oxrieder, Marin)

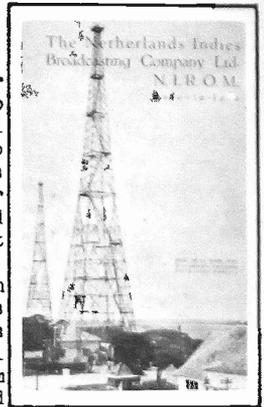
CUBA COCQ, approx. 9.746, Havana, Cuba, relays CMQ from 7am to 1am the next day (* Ansell, Graham, Thomas, Balbi, Oxrieder, Roberts, Gozen) ** New station COCX, Havana, Cuba, announces frequency of 11.65mc, but heard on 12.165 at present, works amateurs near midnight (Oxrieder, Kiesling, Balbi, Peters) COCX heard on new frequency of 11.55mc on August 22 (CAM)

D.R. HI3C, La Romana, has again moved, this time to approximately 6.725mc (Oxrieder) * HI4V, Trujillo, has moved to 6.475mc (Oxrieder) * HI8Q, Trujillo City, is now using name, "La Voz de los Muchachos" (Oxrieder) * HIL, Trujillo City, has been operating on 6.492mc (Oxrieder) ** New station HIN, near 6.25mc, announcing as "Voice of the Dominican Party", Trujillo City, heard Aug. 13 (Oxrieder) * HIX, 6.131 and 12.132, Trujillo City, operates Sun. 7:40-10:40am, weekdays 12:10 to 1:10 and 4:40 to 5:40 pm, Tues and Fri 8:10 to 10:10pm (Stark, CSWRC)

GUATEMALA TGWA, 9.45mc, relays TGW, Guatemala City, from 8 to 10 and 11 to 12midnight and to 5am on Sunday mornings (Kiesling, Murphy, Oxrieder)

HAWAII Hawaii Calls program, Mondays 11:30pm to midnight is now being transmitted by KKP, 16.03, Kahuku (* F. Andrews) * KKP, using call K6XO, 16.03, Kahuku, often calls JFZC, SS. Chchitu Maru, 13.3 or 17.7mc, near midnight (Walcott)

HAITI HH2S, Port-au-Prince, is drifting between 5.91 and 5.92mc (Oxrieder) ** New station HH3NW, Port-au-Prince, is near 6.35mc. Announcements in French and English (Oxrieder) * HH3W, Port-au-Prince, has moved



to 9.64mc (Oxrieder)

MEXICO KEPT, Veracruz, is now on about 9.505mc (* Roberts. XEWI, Mexico D. F., although listing frequencies of 5.8g, 11.95 and 11.90 is apparently only using the last frequency (Graham, Stark, Oxrieder, CAM)

NICARAGUA YNLF, La Voz de Nicaragua, Managua, has moved to 9.63mc (RO)
U.S.A. KNUP, aboard Schooner, "Wander Bird", on trip around world uses frequency of 6.21mc (* ARRL) ** WOEH, aboard Douglas Airplane, on flight from Los Angeles to Siberia via Nome, Alaska, uses frequencies: 4.797.5, 6.425, 8.655 and 12.862mc. Contacts WKP 6.95, WQP 13.9, KEC 5.62 KKL 15.475 and KEL 9.49mc (FCC) * Chicago traffic Dept. using WBPU 4.96 aboard a TWA airliner to direct Chicago traffic on Sunday nights. Also broadcast to motorists, on WBBM, 770kc, at 7-7:15pm (Radio News Bureau) * W2XF, 42 to 56 and 60 to 86mc, New York City, owned by NBC, will increase power to 12kw (FCC) * W2XGB, Press Wireless Inc., Hicksville, L.I., New York, now testing irregularly on 17.31mc (World Radio) * W2XMN, 41.6, 86.5 and 111mc, owned by Edwin H. Armstrong, will use a power of 10kw. (FCC) * W3XAL, 6.1, Boundbrook, N.J., now transmitting programs to Latin America at 7 to 8pm, Mondays, Wednesdays and Saturdays (Sholin, NBC) * W6BGH, 14.2, contacts foreign amateur stations from midnight to 11am Sunday mornings (McDonamy) * W9XAA, 6.0R, 11.8z and 17.7R, Chicago, Ill., has received permit to increase power to 5kw (FCC)

..SOUTH AMERICA..

ARGENTINA LSN, 9.8g, Buenos Aires, is on Thursdays at 6pm (Kiesling) * LRX, 9.66, Buenos Aires, operates daily from 8 to 9pm (Graham, Gozen) * Amateurs heard best 6-9pm: LU5CZ 14.07, LU8AB 14.11, LU6AP 14.3, LU4BH 14.45mc (Ballard, Miller)

BRAZIL Best heard amateurs between 6-9pm: PYLEQ 14.1, PY2ET 14.05 PY7AA 14.285 and PY2CK 14.35 (* Ballard, Miller)

B. GUIANA VF3BG, Georgetown, has moved to about 6.3mc. VF3MR, Georgetown, has moved to about 6.2mc (Thomas-Barbados)

CHILE Best heard amateurs between 7 and 9pm: CE1BC 14.075 and CE1AR 14.14 (Ballard)

COLOMBIA HJ1ABB, Barranquilla, is being heard on 9.57mc irregularly (* Graham) * HJ1ABE, Cartagena, on approximately 9.5mc, operates from about 7 to as late as 10 or 11pm (Oxrieder, Graham, Balbi, Murphy) * HJ1ABG, Emisora Atlantico, Barranquilla, is now on 6.037mc (Oxrieder) * HJ1ABJ, La Voz de Santa Marta, Santa Marta, is now operating near 6.018mc (Oxrieder) HJ1ABJ signs off at 10:30pm (Gozen) * HJ2ABC, Cucuta, is roving around between 9.58z and 9.59mc (Gozen) There is a station on about 9.575mc between DJA and GSC I think is HJ3ABC (Shanks) * HJ3ABD, Bogota, is operating on its assigned frequency of 6.05mc at present (Oxrieder) * HJ3ABF, Bogota, is now operating on approximately 9.59mc, having moved from 6.17 (R.B.Ox.) * A station announcing as "La Voz de Catia" on 6.135mc, is believed to be HJ4ABD moved from the 5.77mc frequency (Oxrieder) * HJ4ABP, Medellin, is now operating on 6.028mc, with 1000 watts power (Oxrieder) (Graham)

ECUADOR HCK, Quito, has moved to 3.75mc, and is operating Mondays, from 8:30 to 10:30pm (* Graham)

PERU A station using the call the "Voice of Peru", presumably an amateur being heard on 14mc irregularly at 6pm (Kiesling) * OA4R 14.12 heard at 12:23am (Ballard)

VENEZUELA YV3RC, Caracas, is operating on 6.155 to 6.157mc (* Oxrieder)

..EUROPE..

BELGIUM Ruysselede is to have new short-wave transmitter with a power of 80,000 watts. Zone transmissions will be used for various parts of the world (** F. Andrews) * Best amateurs are: ON4AP 14.015, ON4VK 14.09, ON4HC 14.1. Heard best 7-9pm (Ballard, Sholin, Schmeichel).

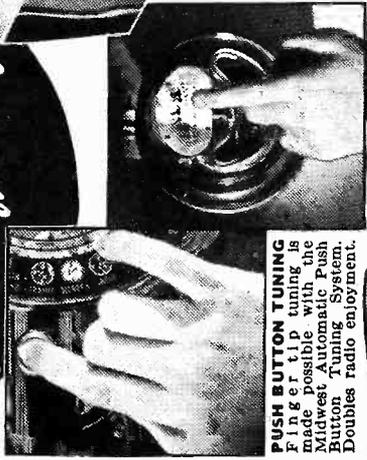
CZECHO- New station OLR, Radio Podebrady, Prague, Czechoslovakia, SLOVAKIA made initial broadcast on July 24, and has been testing irregularly since, on 6.115, 11.76 and 15.23mc. Also authorized to operate on 21.45, 15.32, 11.875, 11.745, 9.504 and 6.01mc. Power is 3kw and directional antennas are used. Programs have consisted of recordings and announcements in English and Czech. Power is tremendous. (** English, Kiesling, Black, Murphy, Graham, Ansell, Gozen, Andrews, Chavez, Oxrieder, Balbi, Peters, Hyde, Morrison)

FRANCE The two new 100kw Govt. short-wave stations are expected to be in operation by the end of 1936 (** Graham, Craft) * Present schedule

Only MIDWEST GIVES YOU
PUSH BUTTON TUNING

plus Exclusive New
ELECTRIK-SAVER
for 1937

*Doubles
 World-Wide
 Enjoyment
 Radio Slashes Bills
 and Current!
 Radio in Half!*



ELECTRIK-SAVER

This exclusive feature cuts radio wattage consumption 50%. Mid-tube radios and 16-tube radios to consume no more current than ordinary 7-tube radios and to operate on voltages as low as 80 volts.

PUSH BUTTON TUNING

Finger tip tuning is made possible with the Midwest Automatic Push Button Tuning System. Doubles radio enjoyment.

NEW 1937 Air Tested
16-TUBE
 MIDWEST
 FIVE-BAND
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NO middlemen's profits to pay! See for yourself that Midwest offers you greater radio values—enables you to buy the more economical factory-to-you way that scores of thousands of radio purchasers have preferred since 1920. Never before so much radio for so little money! Why pay more? The broad Midwest Foreign Reception and Money-Back Guarantees insure your satisfaction. You get 30 days FREE trial in your own home!

Once again, Midwest demonstrates its leadership by offering the world's most powerful and most beautiful ALL-WAVE 16-tube, 5-Band Radio. A startling achievement, it makes the whole world your playground. Powerful Triple-Twin tubes (two tubes in one!) give 18-tube results. This advanced radio is a master achievement, a highly perfected, precisely built, radio-musical instrument that will thrill you with its marvelous super performance...glorious crystal-clear "concert" realism...and magnificent foreign reception. The Dual Audio Program Expander gives MIDWEST uses a living, vital realistic quality to voice and musical reproduction.

I FIND MYSELF SINGING ALONG WITH MIDWEST'S MARVELOUSLY LIFE-LIKE PROGRAMS—
Irene Dunne



MIDWEST USES LESS Fill in coupon NOW, and mail TO DAY!

A COMPARISON CONVINCED ME I SHOULD HAVE A MIDWEST. IT IS A SPLENDID PERFORMER.
Fred Mac Murray



74 ADVANCED 1937 FEATURES
This Super DeLuxe Midwest is so powerful, so amazingly selective, so delicately sensitive that it brings in distant foreign stations with full loud speaker volume on channels adjacent to powerful locals. Scores of marvelous Midwest features, many of them exclusive, make it easy to parade the nations of the world before you. You can switch instantly from American programs...to Canadian, police, amateur, commercial, airplane and ship broadcasts...to the finest and most fascinating foreign programs.

With a Midwest, the finest entertainment in the world has to offer is at your command. It is preferred by famous orchestra leaders, musicians, movie stars, and discriminating radio purchasers everywhere. You can order your Midwest "Air-Tested" radio from the new 40-page catalog with as much certainty of satisfaction as if you were to come yourself to our great factory. (It pictures the beautiful 1937 radios in their actual colors!) You pay a little as \$5.00 down! Three iron-clad guarantees protect you: (1) A Foreign Reception Guarantee — (2) Absolute Guarantee of Satisfaction — (3) One-Year Warranty.

GIANT THEATRE-SONIC SPEAKER
(LESS TUBES)
TERMS AS LOW AS \$5 DOWN

Only **MIDWEST** *Gives You*
16 TUBES • 5 WAVE BANDS

9 TO 2200 METERS • ELECTRIK SAVER
• **PUSH BUTTON TUNING**
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DUAL AUDIO PROGRAM EXPANDER

30 DAYS FREE TRIAL!

MAIL COUPON TODAY for GOOD FOR 30 DAYS
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MIDWEST RADIO CORPORATION Special offer and prices prevail only when dealing direct with factory by mail.
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Without obligation on my part, send me your new FREE catalog and complete details of your liberal 30-day FREE trial offer. This is NOT an order.

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of Pontoise stations: TPA2 15.2h3, 1-1:10am, 4:55-10am; TFA3 11.885, 1 to 1:10am, 1:55-4am and 11:15-5pm; TPA4 11.71, 5:15-7pm and 7pm to 12m (PTT) * TPA4 is actually on 11.714mc (Morrison) * Amateurs heard best: FRPT 14.11, FR11 14.28, FRXN 14.125, FRMG 14.365.

GERMANY Germany's new short-wave center now completed, the largest in the world, has twenty-one beam aeriels. It will now be possible for Zeesen to send out programs to six zones on six different wave lengths simultaneously (** RMA) * Calls to be used for regular zone transmissions are: DJA 9.56, DJB 15.2, DJC 6.02 winter channel, DJD 11.77, DJE 17.76, DJL 15.11, DJN 9.54, DJQ 15.28 and DJK 15.34 (RRG) ** N.A. zone program will also be transmitted by DJL 15.11 from 8 to 10am daily, starting with September 1.

GREECE SVKI, 15mc, Athens, reported heard 3-7pm (Radio News)

ICELAND TFJ, 12.235, Reykjavik, now on Sundays from 1:10 to 2:30pm (Hyde) ** New commercial station TFM, 15.74, Reykjavik, will soon be working GBC, Rugby, England (Roberts)

ITALY Rome's "Mail Bag" is broadcast by 2ROH, 11.81, on Mondays, from about 7:15 to 7:30pm (* RMA) ** IQA, 14.72, Rome, calls Tokio at 2am almost daily (Graham)

LITHUANIA Amateur LYIJ, 14mc, Hipodromo 14, Kaunas-Sanciai, sends out a very attractive QSL card in answer to SWL reports (* Deibe)

NORWAY New LKJL, 9.53, Jeloy, will be operating this month from 6 to 11pm. Beam transmissions will be made and announcements in both English and Norwegian. Other frequencies authorized are: 6.13; 6.99, 9.54 and 9.57. Direct reports to Olav Midttum, Short-Wave Station, Oslo Norway (** Graham, Sholin, Roberts, Andrews)

SWEDEN New station SM5SX, 11.705, owned by Royal Technical University of Stockholm, is now operating daily from 10am to 5pm and to North and South America on Wednesdays from 5 to 6pm. SM5SX relays the Swedish National programs and announcements are made in English, Spanish, French, German and Swedish. SM5SX also works as an amateur on a frequency of 14.344. Power of transmitter is 300 watts (***) Goodeve, Sholin, CSWRC, World Radio)

SWITZER- Swiss commercial phone stations are: HBF 18.54, HBJ 14.54,

LAND HBH 18.45 and HBO 11.38 (* Roberts) Miller)

U.S.S.R. RKI, 15.04, Moscow, works RWJ, 12.19, Alma-Ata, near 6am (Joe-

VATICAN Radio Vaticano, HVJ, 15.12, Vatican City, Italy, is to have a new and much more powerful transmitter.

..AFRICA..

ALGERIA TYA2, 9.04, Paris, France, relays the PTT news to Radio Alger at 2-3am and 12:30-1:30pm daily (** Plieber-Alger) ** The S.S. Ville d'Alger, 8.815mc, phones TYB, 8.075mc, Mon/Wed 3-3:15am, Tues/Sat at 7:30am and 11:30am; phones TYA2, 9.04, Fri/Sun 10am. Ship plies between Alger and Marseilles, France. Power is 300 watts (Plieber-Alger)

ANGOLA According to Egyptian Radio CR6AA, Lobito, 7.18mc, operates on Wednesdays and Saturdays from 3:30 to 5:30pm. English is occasionally used in announcements. Power is 500 watts and address Estacao Radio Difusora CR6AA, Caixa Postal 118, Lobito, Portuguese West Africa.

CANARIAS New station "Radio Tenerife", 10.715mc, Tenerife, is operating daily at 3pm, 5pm and 6pm. Announcements are made in Spanish, German, French and English on the Spanish situation. It is obviously owned by the insurgents, as all news is from the Rebel headquarters of General Franco. Occasionally music is radiated and the station closes down with the Spanish anthem (**** J. Mercieca, Malta)

ETHIOPIA IUC, Addis Abeba, 11.955, is testing with Rome at 3-4pm.

MADAGASCAR FIU, 6.01, Tananarive, operates daily from 9:30 or 9:45 to 10:15am, closing down with the La Marseilles (** A.R.A.)

MOROCCO CNR, Rabat, is generally used for commercial telephony only but recently has been heard broadcasting Arabic music on Sundays, between 3 and 5pm, utilizing its 8.035mc frequency (***) Egyptian Radio)

TUNISIA New station "Tunis Experimental", 7.265mc, is operating from 6 to 8am and noon to 2pm daily (**** Plieber-Alger)

UNION OF ZSS, 18.89, Capetown, is being heard irregularly on the Pac

S.AFRICA ific coast around 7:10am PST (** Andrews) * ZTJ, 6.097, Johannesburg, situated just ten miles from the Maraisburg gold reef, operates daily from 11:45pm to 12:30am, 3:15 to 7am, 9 to 11:15am, 11:45am to 4pm and on Saturdays to 4:45pm. (** African Radio Announcer * Amateur ZSLZ, HF side American phone band, heard 2-2:30am (J. Miller)

..ASIA-AUSTRALASIA..

SPECIAL IDA PROGRAM FROM CQN, MACAO

OCT 12, MONDAY 12:30-1pm GMT.

OCT 12, MONDAY 7:30-8am EST. MACAO, CHINA 9.66 or 9.7mc CQN
 Address reports to J. Estrela, Chief of Radio Station, Government Broadcasting Station CQN, Post Office Building, Macao.

AUSTRALIA VJL, R.63, Cloncurry, is on the air every Friday at 4am (** Graham) * Pedal transmitters are used for communication between Brassert & Co. prospectors at Koolan Island and those at Port Hedland (W.A.W.N.) * **VK2ME**, 9.59, Sydney, sked for Sept: Sundays, 12:30-2:30, 4:30-8:30am and 9:30-11:30am ** New schedule of **VK3LR**, 9.58, Melbourne, 1s weekdays 3:30-8:30am, Sundays 3-7:30am and Fridays 10:30pm-Sat 3am (W.A. Wireless News) ** **VK3LR** is testing each Friday at 3am with **VK8SC**, the Flying Doctor station at Port Hedland (W.A. Wireless News) * **VK3ME**, Melbourne, is actually being received on 9.495mc. Sked 1s weekdays from 4-7am (Oxrieder) ** **VK6ME**, new station of Amalgamated Wireless, (Asia), Ltd., will shortly take the air on 9.59mc. Transmitter, which has a power of 300-400 watts is located at Applecross and the studios at Perth, West Australia (Tune In) ** Amateur phone **VK6MW**, owned by W.A. Weston, 54 Stirling Highway, Nedlands, W. Australia, says he is only **VK6** on 20 meter phone (DeMyer) ** **VK9MT**, aboard the S.S. Kanimbla, power of 250 watts, transmits irregularly on 6.02 and 11.71mc (McCormick)

CEYLON Radio Colombo, 6.16, Colombo, closes down at 11:30am (Wignall)

CHINA The new 35kW Govt. S.W. center at Nanking is now under construction (** Graham, Woo, Andrews) ** **XGOX**, Nanking, has moved to 8.62mc and operates daily from 6:30 to 8:40am, Sundays 7:30 to 9:30am (Sholin, Andrews) ** **XOJ**, 15.785, Shanghai, contacts San Francisco near 6:30am.

F.INDO- New station **FIC3?**, Saigon, being heard on 11.7mc, near 8-9:35

CHINA am. Station announces as "Ici Radio Saigon" (** Balbi). Also reported on a frequency of 11.76mc (Andrews)

HONG KONG Amateur **VS6AQ**, operates on 14.302mc, with a power input of 60 watts. The address is Stanley Conway, R.A.F. Base, Kai Tak, Kowloon, Hong Kong, Hong Kong Colony, China (** DeMyer, Roberts)

JAPAN **JVA**, 18.91, Nazaki, tests with recordings occasionally from 10:30pm-1am (* Roberts) * News bulletins in English are broadcast by **JVH**, 14.6mc, nightly near 12:40am (RMA)

JARVIS Amateur **K6GNW**, with U.S. Dept. of Commerce Airways Expedition,

ISLAND stationed there, operates on 7.144 and 14.228mc (** ARRL)

JAVA The NIROM plan to erect a powerful short-wave outlet for their Eastern (native) network at Bandoeng (** Hardeman). NIROM is now verifying all correct reports on their stations which are accompanied by an IRC Coupon. The veri' is a handsome folder containing photos and much information on the stations. This plan has gone in effect as a result of the special request of IDA Rep. Hardeman. Address all reports to NIROM (Nederlandsch-Indische Radio Omroep Maatschappij), Koningsplein West 5, Batavia-Centrum, Java (** Hardeman) *** New station **PLH**, 15.15, Bandoeng, Java, heard with NIROM program from about 5-10am (Andrews, Balbi) ** **PMH**, 6.72, Bandoeng, being heard from 5:30 to 10am (Britting) ** **PLE**, 18.83, Bandoeng, is testing irregularly from 11:30pm-1am (Balbi)

PALESTINE Jerusalem now transmitting in Arabic and English on a frequency of 11.89mc (** African Radio Announcer)

P.I. The most powerful short-wave station in the Far East is being planned by the owners of **KZRM**, if the government subsidy continues (** RMA) ** **KBB**, 8.71, Manila, is testing frequently and verify reports. Address is F.J.O'Classen, Radio Station **KBB**, Box 1444, Manila, P.I. (Myers) * **KTR**, 10.91, Manila, is testing irregularly from 8 to 11am (Britting)

SIAM Address of **HS8PJ** is Post and Telegraph Dept., Engineer I/C-Lt. Col. Phra Aram, Experimental Radio Broadcasting station **HS8PJ**, Sala-deng, Bangkok, Siam. Station is operating at present as follows: Mondays 8-10am on 10.95 or 15.6mc, occasionally noon to 2pm also; Thursdays 8-10am on 9.35mc. Power is 5kW and reports are solicited (** Balbi, Britting, Sholin, Andrews)

TAHITI **FO8AA**, owned by S.M. Henderson, Radio Club, Papeete, is reported on 7.1, and 7.89mc. Station operates Fri 11pm-mid. (** W.A.W.N.)

U.S.S.R. **RVU**, 17.115, Vladivostok, may be heard phoning Moscow during the early morning hours according to the Quixote Radio Club.

NEW CALEDONIA Noumea, 8.73mc, testing (* NZSWC).

SHORT-WAVE BROADCASTING STATIONS

NOTE: SYMBOLS: New stations-N; Changes in frequency-F; Changes in schedule-S; Changes in frequency and schedule-C; Frequency calibration according to Oxrieder-IDA Frequency Bureau-B; Exact frequency in doubt or unstable frequency-D; Commercial stations-P; Experimental-E.

DIAL	METERS	MEGS	CALL	STATION	TIME	E.S.T.
	P13.45	22.305	GBU	Rugby, England.	Works New York.	
	13.92	21.54	W8XK	Pittsburgh, Penna.	5:45-9am.	
	13.94	21.52	W2XE	Wayne, New Jersey.	6:30-noon.	13M
	13.97	21.47	GSH	Daventry, England.	6-8:45, 9-11:30am.	(6:30am)
	P14.97	20.04	OPL	Leopoldville, Congo	Works ORG 9:45am, 4:30-	
	P15.02	19.98	KAX	Manila, Philippines	Works KWU at 9:20pm & irr	
	P15.28	19.63	VQG4	Nairobi, Kenya.	Works GAD at 8 and 9:25am	
	P15.50	19.345	PMA	Bandoeng, Java.	Phones 6-9:15am.	
	P15.62	19.20	ORG	Ruyselede, Belgium	OPL 9:45am, 4:30-6:30am.	
	P15.80	18.97	GAQ	Rugby, England.	Works ZSS at 8 and 10am.	
	P15.86	18.91	JVA	Nazaki, Japan.	Tests 10:30pm-1am irreg.	
	P15.87	18.89	ZSS	Capetown, S. Africa.	Works GAQ at 8 and 10am.	
	P15.93	18.82	PLE	Bandoeng, Java.	KWU 6:55pm, 11:30pm-1am ir	
	P16.10	18.62	GAU	Rugby, England.	Works WYV at 8am.	
	P16.23	18.48	HBH	Geneva, Switzerland	Experimental.	
	P16.34	18.34	WLA	Lawrenceville, N.J.	Works GAS, Rugby.	
	P16.38	18.304	GAS	Rugby, England.	Works WLA, Lawrenceville.	
	P16.39	18.296	YVR	Maracay, Venezuela.	Works DFB at 9:20am.	
	P16.49	18.18	CGA	Drummondville, Que.	Works Rugby mornings.	
	16.86	17.79	GSG	Daventry, England.	6-8:45, 9-N'n, 3:40-5:45pm.	
	16.87	17.78	W3XAL	Boundbrook, N.J.	8am-4pm.	
	16.88	17.77	PHI	Huizen, Holland.	7:30-9:30am, Sun 1-2pm.	16M
	16.89	17.76	DJE	Zeesen, Germany.	12:05-5:15, 5:55-11am.	
	P16.91	17.74	HSP	Bangkok, Siam.	Works JVG around 4:30pm.	
	P17.11	17.52	DFB	Nauen, Germany.	Works YVR around 9:20am.	
	P17.15	17.48	WYV	Kirkee, India.	Works GAU at 8am.	
	P17.51	17.12	WOO	Ocean Gate, N.J.	Works ships.	
	P17.55	17.08	GBC	Rugby, England.	Works ships.	
	P18.48	16.27	WLK	Lawrenceville, N.J.	Works Rugby days.	
	P18.49	16.24	KTO	Manila, Philippines	JVB 6:30-7pm; KWU 7:30-8pm	
	P18.51	16.20	FZR3	Saigon, F. Indo-China	works FTK at 9 and 10am.	
	P18.61	16.12	IRY	Rome, Italy.	Phones irregularly. (1130p	
	P18.71	16.03	KKP	Kahuku, Hawaii.	Works KWU 1:30-7pm, Mon at	
	P18.89	15.88	FTK	Ste. Assise, France	Works FZR3 at 9 and 10am	
	P18.90	15.86	JVD	Nazaki, Japan.	Works KWU, XOJ at 8:45-9pm	
	P19.00	15.785	XOJ	Shanghai, China.	Works JVD near 9pm.	
	P19.06	15.74	TFM	Reykjavik, Iceland.	Contacts GBC, Rugby.	
	P19.16	15.66	JVE	Nazaki, Japan.	Works PLE 7:30-8pm.	
	P19.21	15.62	JVF	Nazaki, Japan.	Works KWU, XOJ etc.	
	P19.23	15.60	HS8PJ	Bangkok, Siam.	Mondays 8-10am irreg.	
	P19.45	15.415	KWO	Dixon, California.	Works KKP and Manila.	
	19.52	15.37	HAS3	Budapest, Hungary.	Sunday 9-10am.	
	S19.56	15.34	DJR	Zeesen, Germany.	8-10am to C.A.	
	19.57	15.33	W2XAD	Schenectady, N.Y.	10am-3:45pm.	
	19.60	15.31	GSP	Daventry, England.	6-8pm.	
	19.62	15.29	LRU	Buenos Aires, Argen	7am-3:45pm.	
	S19.63	15.28	DJQ	Zeesen, Germany.	7:15-11am, 4:50-10:45pm.	
	19.64	15.27	W2XE	Wayne, New Jersey.	Noon-5pm.	
	19.67	15.25	WLXAL	Boston, Mass.	Irreg. on this frequency.	
	S19.68	15.243	TPA2	Pontoise, France.	1-1:40am, 4:55-10am.	19M
	N19.70	15.23	OLR	Prague, Czechoslovakia	testing.	
	19.71	15.22	PCJ	Eindhoven, Holland.	Sun 7:30-8:30a, Tu 3-6, 11a	
					to 1pm, Wed 7-11pm.	
	19.72	15.21	W8XK	Pittsburgh, Penna.	9am-7pm. (Sun 11:10a-12:20	
	S19.74	15.20	DJB	Zeesen, Germany.	12:05-5:15, 5:55-11am.-	
	19.76	15.18	GSO	Daventry, England.	12:15-3:40pm.	
	19.76	15.18	RV96	Moscow, U.S.S.R.	Sunday 1-2pm.	
	N19.85	15.15	PLH	Bandoeng, Java.	5:30-10:30am.	
	S19.82	15.14	GSF	Daventry, England.	9am-N'n, 3:40-5:45pm, 9-11p	
	19.84	15.12	HVJ	Vatican City, Italy	10:30-10:45am. (Su 6-8am.	
	19.85	15.11	DJL	Zeesen, Germany.	12-2, 8-10am, 11:35-4:30pm,	

19.91	15.07	RKI	Moscow, U.S.S.R.	Sunday 10-11am.	
F19.92	15.055	WNC	Hialeah, Florida.	Works C.A. & S.A. daily.	
P20.03	14.98	KAY	Manila, Philippines	Works DFB 7am etc.	
20.04	14.97	LZA	Sofia, Bulgaria.	Su 12:30-8, 10a-4:30p, M/W F/S 5-7am, Tu/Thur 1-3pm.	
P20.08	14.93	HJB	Bogota, Colombia.	Works WNC	
P20.35	14.74	IRG	Massaua, Eritrea.	Works JVH, IQA etc.	
P20.38	14.72	IQA	Rome, Italy.	Works JVH at 2am; IRG etc.	
P20.45	14.665	DFD	Nauen, Germany.	Works JVH early mornings.	
P20.55	14.60	JVH	Nazaki, Japan.	Europe 2-8am, daily 12-1am Mon/Thur 4-5pm etc.	
P20.64	14.535	HBJ	Geneva, Switzerland	Experimental to U.S.A.	
P20.69	14.50	TIU/HPF	TGF Central America	all work WNC days.	
P20.71	14.485	HRL5	La Lima, Honduras.	Works WNC days.	
E20.75	14.46	DZH	Zeesen, Germany.	Irregularly.	
P20.78	14.44	GBW	Rugby, England.	Works Lawrenceville days.	
E21.57	13.90	WQP	Rocky Point, N.Y.	Experimental. (-1pm.	
P21.71	13.81	SUZ	Cairo, Egypt.	Works GBB 9:30-10am, 12:30	
P21.81	13.745	CGA2	Drummondville, Que.	Works Rugby etc.	
22.00	13.636	SPW	Babice, Poland.	Mon/Wed/Fri 11:30a-12:30p	
P22.08	13.585	GBB	Rugby, England.	Works SUZ and CGA2 days.	
P22.37	13.41	WCT	San Juan, P.R.	Works WNC days.	
P22.42	13.38	IDU	Asmara, Eritrea.	Phones IRY/IQA days.	
P22.48	13.35	YVQ	Maracay, Venezuela.	Works WNC days.	
P22.58	13.285	CGA3	Drummondville, Que.	Works ships and Rugby.	
22.94	13.075	VPD	Suva, Fiji's.	12:35-1:30am ex. Sundays.	
E23.31	12.862	WOEH	Enroute to Siberia	See notes.	
P23.36	12.84	WOO	Ocean Gate, N.J.	Works ships. (am.	
P23.39	12.83	CNR	Rabat, Morocco.	Works Paris Sun 7:30-9:30	
P23.45	12.80	IAC	Coltano, Italy.	Works Italian ships.	
P23.47	12.78	GBC	Rugby, England.	Works ships days.	
P24.21	12.40	DAF	Norden, Germany.	Works ships days.	
P24.48	12.25	TYB	Paris, France.	Irreg.	
24.52	12.235	TFJ	Reykjavik, Iceland.	Sundays 1:40-2:30pm.	
24.53	12.232	HIX	Trujillo City, D.R.	Irregular on this freq.	
E24.73	12.13	DZE	Zeesen, Germany.	Irregular.	
E24.92	12.03	HBO	Geneva, Switzerland	Irregular. (Wed 9-10am.	
74	25.00	12.00	RNE	Moscow, U.S.S.R. 3-6pm, Sun 6-8:45, 10-11am	
25.09	11.955	IUC	Addis Abeba, Ethiopia	testing with Rome 3-4pm	
E25.08	11.95	KKQ	Bolinas, Calif.	Experimental.	
76	F25.21	11.90	XEWI	Mexico D.F. 8pm-midnight irregular.	
N25.23	11.89		Jerusalem, Palestine	testing irregularly.	
F25.24	11.885	TPA3	Pontoise, France.	1-1:40, 1:55-4, 11:15a-5pm.	
101	S25.27	11.87	W8XK	Pittsburgh, Penna. 7-10pm. (3am.	
25.29	11.86	YDB	Sourabaya, Java.	11:30pm-3am, Sat 8pm-Sun-	
25.31	11.85	DJP	Zeesen, Germany.		
107	25.36	11.83	W2XE	Wayne, New Jersey. 5-10pm.	
25.36	11.83	W9XAA	Chicago, Illinois.	Sunday 9am-1am Mondays, 25M	
25.40	11.81	2R04	Rome, Italy.	6:43am-5:30pm, 6-6:20pm, Mon/Wed/Fri 6:20-7:30pm, 5:30-6:30pm, Sun 3:30-7pm. 11:35-4:30pm, 4:50-10:45pm	
25.43	11.79	WLXAL	Boston, Mass.	12:15-2:15am, 12:15-3:25pm 6-8pm.	
119	25.49	11.77	DJD	Zeesen, Germany.	
N25.51	11.76	OLR	Prague, Czechoslovakia	testing irregularly.	
25.53	11.75	GSD	Daventry, England.		
08	25.60	11.72	CJRX	Winnipeg, Canada. 7-12m, S 4pm-1a, Su 3-9:30p	
10	F25.61	11.714	TPA4	Pontoise, France. 5:15-7, 7:15pm-midnight.	
N25.63	11.705	SM5SX	Stockholm, Sweden.	10am-5pm, Wed 5-6pm.	
N25.64	11.70	FIC3?	Saigon, Indo-China.	8-9:35am irreg.	
N25.97	11.55	COCX	Havana, Cuba.	Testing in evenings.	
26.09	11.50	PMK	Bandoeng, Java.	6:30-11am irreg.	
P26.11	11.495	VIZ3	Fiskville, Austral.	Works CGA4 irreg.	
P26.80	11.187	XAM	Merida, Yuca, Mexico	Works XDR 5-7pm irreg.	
E27.27	11.00	XBJQ	Mexico D.F.	Experimental irreg.	
P27.27	11.00	PLP	Bandoeng, Java.	5:30-11am.	
P27.27	11.00	ZLT4	Wellington, N.Z.	Works VLJ 1:30-3:30am.	
27.39	10.955	HS8PJ	Bangkok, Siam.	Monday 8-10am, N'n-2pm irr	
P27.50	10.91	KTR	Manila, Philippines	Works Dixon 8-11am irreg.	

F27.68	10.84	KWV	Dixon, California	Works KTR at 10am irreg.
27.93	10.74	JVM	Nazaki, Japan.	1:50-7:40am, Tu/F 2-3p irr
N28.00	10.715		Tenerife, Canarias	3, 5 and 6pm.
P28.09	10.675	WNB	Lawrenceville, N.J	Works ZFD afternoons.
P28.12	10.67	CEC	Santiago, Chile.	7-7:15pm.
S28.14	10.66	JVN	Nazaki, Japan.	Tu/F 2-3pm irreg.
P28.47	10.53	JIB	Taihoku, Taiwan.	Works JVO early mornings.
P28.50	10.52	VLK	Sydney, Australia.	Works GBP 2-4:20am.
P28.77	10.42	XGW	Shanghai, China.	Works Dixon 9:20-10:30am.
P28.76	10.43	YBG	Medan, Sumatra.	Works PLV 5:30-6:30am.
E28.90	10.38	WCG	Rocky Point, N.Y.	Experimental.
F28.91	10.375	JVO	Nazaki, Japan.	Works TDE and JIB.
E28.98	10.35	LSX	Buenos Aires, Arg.	Experimental irregular.
P29.01	10.335	ZFD	Hamilton, Bermuda.	Works WNB until 8:15pm.
29.04	10.33	ORK	Ruyselede, Belgium.	1:30-3pm.
E29.15	10.29	DZC	Zeesen, Germany.	Experimental.
29.24	10.26	PMN	Bandoeng, Java.	5:30-10am to Sumatra.
P29.24	10.20	PSH	Rio de Janeiro, Br	Works B.A. & CEC 6-7pm.
P29.50	10.17	RIO	Bakou, U.S.S.R.	Works RNE/RIR mid-2am.
P29.58	10.135	OPM	Leopoldville, Congo	Works ORK early mornings
P29.84	10.055	SUV	Cairo, Egypt.	Afternoons 3:30-5pm.
E29.87	10.042	DZB	Zeesen, Germany.	Experimental. (Dixon 10am.
P30.01	9.99	KAZ	Manila, Philippines	Relays KZRM 5-7am, Works
E30.32	9.89	LSN3	Buenos Aires, Arg.	Thurs at 6pm.
30.43	9.86	EAQ	Madrid, Spain.	5:15-9:30pm, Sat 1-3pm.
E30.47	9.84	JYS	Kemikawa-Cho, Japan	works irreg at night.
P30.75	9.76	VLJ	Sydney, Australia.	Works ZLT4 mid.-1:30am.
B30.78	9.746	COCQ	Havana, Cuba.	Relays CMQ 7am to 1am.
N30.98	9.685	TLNRH	Heredia, C.R.	7-10pm, 11:30pm-midnight.
E31.01	9.675	DZA	Zeesen, Germany.	Experimental.
31.04	9.666	CQN	Macao, Macao.	Mon/Fri 7-8:30am.
S31.06	9.66	LRX	Buenos Aires, Arg.	8-9pm.
31.09	9.65	CT1AA	Lisbon, Portugal.	Tues/Thur/Sat 3-6pm.
31.12	9.64	YDB	Soerabaja, Java.	5:30-11am.
B31.12	9.64	HH3W	Port-au-Prince, Haiti,	1-2, 7-8:30pm.
31.13	9.635	2R03	Rome, Italy.	Tues/Thur/Sat 6:20-7:45pm
B31.15	9.63	YNLF	Managua, Nicaragua	6:15-9:45pm.
31.20-	9.616	HJLABP	Cartagena, Colom.	11am-1pm, 5-11pm, Sun 5-8pm
31.23	9.605	HP5J	Panama City, Panama	11:45-1:15pm, 7-10pm.
31.25	9.60	CB960	Santiago, Chile.	11am-1pm, 9-11pm.
31.27	9.595	HLB	Geneva, Switzerland	Sat 5:30-6:15pm.
31.28	9.59	PCJ	Eindhoven, Holland.	Sun 7-8pm, Wed 7-10pm.
31.28	9.59	VK6ME	Perth, W. Australia	will be operating soon.
31.28	9.59	VK2ME	Sydney, Australia.	12:30-2:30, 4:30-8:30 and 9:30-11:30am Sundays only
31.28	9.59	W3XAU	Philadelphia, Penn	11am-7pm, Sun 11am-6pm. 31M
F31.28	9.59	HJ3ABF	Bogota, Colombia.	7-11pm except Sundays.
31.32	9.58	GSC	Daventry, England.	6-8 and 9-11pm. (Fr 10:30p
S31.32	9.58	VK3LR	Melbourne, Austr.	3:30-8:30am, Sun 3-7:30am,
31.34	9.575	HJ2ABC	Cucuta, Colombia.	6-10pm ex. Sunday.
31.35	9.57	W1XK	Springfield, Mass.	6am-mid., Sun 7am-midnight
F31.35	9.57	HJLABB	Barranquilla, Col.	Heard testing here.
31.36	9.565	VUB	Bombay, India.	Su 1-2:30am, Tu/Sa 11:30am
31.38	9.56	DJA	Zeesen, Germany.	12:05-5:15am, 4:50-10:45pm
F31.41	9.55	TIPG	San Jose, C.R.	6-11:15pm.
31.45	9.54	DJN	Zeesen, Germany.	12:05-5:15am, 4:50-10:45pm
31.45	9.54	CB954	Santiago, Chile.	Will be operating shortly
31.48	9.53	W2XAF	Schenectady, N.Y.	4pm-midnight.
N31.48	9.53	HLJL	Jeloy, Norway.	6-11pm.
31.51	9.52	RAN	Moscow, U.S.S.R.	6-7:30pm, Sun/Wd/Fr 6-8pm.
31.55	9.51	GSB	Daventry, England.	12:05-5:15am, 12:15-5:45pm
31.55	9.51	HJU	Buenaventura, Col.	Mon/Wed/Fri N'n-2, 8-11pm.
F31.55	9.51	HC2JSB	Guayaquil, Ecuador	6:19-11:19pm ex. Sunday.
F31.57	9.505	XEFT	Veracruz, Mexico.	Evenings irreg.
31.58	9.50	HJLABE	Cartagena, Colom.	7:30-9pm except Sundays.
B31.60	9.495	VK3ME	Melbourne, Austr.	4-7am except Sundays.
F31.73	9.45	TGWA	Guatemala, Guat.	8-10, 11pm-mid, to 5am Sun.
E31.73	9.45	WES	Rocky Point, N.Y.	Experimental

31.80	9.428	GOCH	Havana, Cuba.	6-10am, 4-10pm or later.
P31.84	9.415	PLV	Bandoeng, Java.	Works Dixon near 10am
E31.92	9.40	XDR	Mexico D.F.	Works XAM, XFA2 5-7pm irr.
N32.09	9.35	HSEPJ	Bangkok, Siam.	Thurs 8-10am
P32.33	9.28	GCB	Rugby, England.	Works CGA4 4-6pm & SUV.
P32.70	9.17	WNA	Lawrenceville, N.J.	Works GCB.
32.88	9.125	HAT4	Budapest, Hungary.	Sunday 6-7pm. (1:30pm.
P33.17	9.04	TYA2	Pontoise, France.	Works FVA 2-3am, 12:30-
P33.47	8.963	FVA	Alger, Algeria.	Works TYA2 2-3a, 12:30pm.
33.53	8.948	HCJB	Quito, Ecuador.	7-11:30pm ex. Monday.
34.26	8.75	ZBW	Hong Kong, China.	4-10am.
P34.44	8.71	KBB	Manila, Philippines	Irregular.
34.66	8.665	CO9JQ	Camaguey, Cuba.	8-9pm etc.
P34.76	8.63	VJI	Cloncurry, Austr.	Fridays at 4am. (am
F34.80	8.62	VGX	Nanking, China.	6:30-8:40am, Sun 7:30-9:30
35.69	8.404	HC2CW	Guayaquil, Ecuador.	8-11pm ex. Sunday.
P37.15	8.075	TYB	Pontoise, France.	Works FVA.
P37.33	8.035	CNR	Rabat, Morocco.	Sun 3-5pm and irreg.
D38.02	7.89	FO8AA	Papeete, Tahiti.	Fri 11pm-midnight.
38.47	7.797	HBP	Geneva, Switzerland	Sat 5:30-6:15pm.
E38.86	7.715	KBE	Bolinas, California	Works KKH.
F39.87	7.52	KKH	Kahuku, Hawaii.	Works Bolinas irreg.
39.92	7.51	JVP	Nazaki, Japan.	Irreg.
40.65	7.38	XECR	Mexico D.F.	Sunday 7-8pm.
N41.30	7.265		Tunis, Tunisia.	6-8am and noon-2pm.
41.80	7.18	GR6AA	Lobito, Angola.	Wed/Sat 2:45-4:45pm.
D42.25	7.10	FO8AA	Papeete, Tahiti.	Fri 11pm-midnight.
E42.40	7.08	PI1J	Dordrecht, Holland.	Sunday 11:10am-12:10pm. (P
D42.80	7.01	EA8AB	Tenerife, Canarias.	Mon/Wed/Fri/Sat 3:15-4:15
42.97	6.996	PZH	Paramaribo, D.Guiana	Mon/Wed/Fri 5:40-9:40pm.
43.51	6.895	HCFTC	Quito, Ecuador.	Thurs 8:19-10:49pm.
44.25	6.78	HIH	San Pedro, D.R.	7:40-9:10pm ex. Sundays.
44.51	6.74	HC1TQ	Quito, Ecuador.	Sunday 5:14-7:14pm.
B44.57	6.725	HI3C	La Romana, D.R.	6:10-7:40pm.
E44.57	6.725	WQO	Rocky Point, N.Y.	Experimental.
N44.64	6.72	PMH	Bandoeng, Java.	5:30-10am.
B44.96	6.673	TIEP	San Jose, C.R.	7-10:30pm ex. Sundays. (11p
E45.22	6.635	HC2RL	Guayaquil, Ecuador.	Sun 5:45-7:45p, Tu 9:20-
45.25	6.63	HIT	Trujillo City, D.R.	12:10-1:40pm, 5:40-8:40pm.
B45.29	6.625	PRADO	Riobamba, Ecuador.	Thurs 9:20-11:40pm.
P45.45	6.60	XFA2	Veracruz, Mexico.	Works XDR and XAM. 49M
45.76	6.555	HI4D	Trujillo City, D.R.	4:40-7:40pm ex. Sunday.
45.80	6.55	TIRCC	San Jose, C.R.	N'n-2, 6-7pm, Thur 6-11pm.
45.84	6.545	YV11RB	Bolivar, Venezuela.	
46.01	6.52	YV6RV	Valencia, Venezuela	5:30-9:30pm.
B46.21	6.492	HIL	Trujillo City, D.R.	5:40-7:40pm ex. Sunday.
B46.34	6.475	HI4V	Trujillo City, D.R.	5:10-6:40pm ex. Sunday.
46.51	6.45	HI8A	Trujillo City, D.R.	5:40-7:40pm ex. Sunday.
46.70	6.425	VE9AS	Fredericton, N.B.	Thurs 10:30pm-1:30am.
46.70	6.425	OAX4K	Lima, Peru.	7 p.m. daily.
46.70	6.425	W2XGB	Hicksville, L.I.	Testing 8-10pm irreg.
46.69	6.425	W3XL	Boundbrook, N.J.	NBC Experimental.
46.73	6.42	HILS	Puerto Plata, D.R.	6:10-8:10pm ex. Sunday.
46.80	6.41	TIPG	San Jose, C.R.	See 9.55mc.
46.88	6.40	YV9RC	El Valle, Venezuela	5:30-9:30pm ex. Sunday.
47.02	6.38	YV4RC	Caracas, Venezuela.	11am-1pm, 5:30-9:30pm ex S.
47.20	6.357	HRP1	San Pedro Sula, Hon	7-9pm ex. Sunday.
N47.24	6.35	HH3NW	Port-au-Prince, Haiti	testing in evenings.
47.54	6.31	HIZ	Trujillo City, D.R.	5:10-7:40pm ex. Sundays.
S47.62	6.30	YV12RM	Maracay, Venezuela.	6-10pm except Sundays.
D47.62	6.30	VP3BG	Georgetown, B.Guiana	
47.76	6.282	CO9WR	Sancti Spiritus, Cuba	N'n-1, 4-6, 9-11pm.
47.77	6.28	HIG	Trujillo City, D.R.	8:10-9:40p, T/F 6:40-8:10pm
48.00	6.25	CO5RY	Matanzas, Cuba.	7-9pm.
N48.00	6.25	HIN	Trujillo City, D.R.	Operating in evenings.
48.11	6.235	HRD	La Ceiba, Honduras	Sun 1pm-1am, daily 8-11pm.
48.15	6.23	OAX4G	Lima, Peru.	7-11pm, Wed 6-11pm.
48.39	6.20	VP3MR	Georgetown, B.Guiana	4:45-8:45pm, Sun 7:45-10am

48.47	6.19	HILA	Santiago, D.R.	10:40a-2:40p, 6:40-9:40pm
48.62	6.17	XEXA	Mexico D.F.	8-8:30am, 6-11:15pm
48.62	6.17	HJ2ABA	Tunja, Colombia.	7-10pm ex. Sunday.
48.70	6.16		Colombo, Ceylon.	Signs off at 11:30am.
B48.73	6.156	YV3RC	Caracas, Venezuela	3:30-10pm.
48.78	6.15	CB615	Santiago, Chile	11am-1pm, 7-10pm. (10:30pm
48.78	6.15	CJRO	Winnipeg, Canada.	7-mid, Sat 4pm-1am, S 3pm-
48.81	6.147	COKG	Santiago, Cuba.	8-9am, 11am-2pm, 5-9pm.
48.81	6.147	ZEB	Bulawayo, S. Rhodesia	Tu/F 12:15-3:15p, M 11am-N'n, Th 10am-N'n, S 3:30-6p
48.82	6.145	HJ4ABU	Pereira, Colombia.	7-8pm except Sunday.
48.86	6.140	W8XK	Pittsburgh, Penna.	10pm-1am.
48.89	6.137	CR7AA	Laurence, Mozambique	12:45-3pm, Sun 8-10:30am
F48.90	6.135	HJ4ABD	Medellin, Colombia.	8-11pm except Sundays.
48.91	6.134	CHNX	Halifax, NS, Canada.	Relays CHNS.
48.93	6.132	HIX	Trujillo City, D.R.	Tues/Fri 8:10-10:10pm.
48.94	6.13	ZGE	Kuala Lumpur, FMS.	Sun/Tues/Fri 6:40-8:40am.
48.94	6.13	COCD	Havana, Cuba.	11am-12 mid., Sun 5-11pm.
S48.95	6.128	HJ1ABB	Barranquilla, Col.	8-10pm except Sundays.
49.01	6.122	HJ3ABX	Bogota, Colombia.	6-11:30pm except Sundays.
49.01	6.122	OAX4P	Lima, Peru.	Noon-1pm, 9-11pm.
49.02	6.12	W2XF	Wayne, New Jersey.	9-10pm.
49.02	6.12	XEFT	Veracruz, Mexico.	7:30-mid. See 9.505mc.
49.02	6.12	HP5Z	Panama City, Panama	
N49.06	6.115	OLR	Prague, Czechoslovakia	testing irregularly.
49.11	6.109	VUC	Calcutta, India.	Sat 9:35pm-Sun 2:05am, Sun 7:05-10:35, dly 1:35a-1120
49.11	6.108	HJ4ABB	Manizales, Colombia	8-10pm except Sundays.
49.18	6.10	W3XAL	Boundbrook, N.J.	Mon/Wed/Sat 4pm-midnight.
49.18	6.10	W9XF	Chicago, Illinois.	Su/T/Th/F 8pm-1am, M/W/S 7am-7pm, 10pm-12:30am.
49.18	6.10		Seville, Morocco.	Testing irregularly.
S49.20	6.097	ZTJ	Johannesburg, S. Afr	11:45-12:30a, 3:15-7am, 9-11:15am, 11:45-4pm.
49.25	6.092	HJ4ABE	Medellin, Colombia.	7:30-10:30pm.
49.26	6.09	CFCX	Bowmanville, Ont.	4:30-10:30pm, Sun N'n-8pm.
S49.26	6.09		Belgrade, Yugoslavia	2-3:45am, 7-8:30a, 11:30am
49.27	6.085	2R01	Rome, Italy.	(to 4:45pm daily.
49.27	6.085	HJ5ABD	Cali, Colombia.	7-10pm.
49.33	6.082	V07L0	Nairobi, Kenya.	5:45-6:15am ex. Sat/Sun et
49.34	6.08	HP5F	Colon, Panama.	7-10:30pm ex. Sundays.
49.34	6.08	W9XAA	Chicago, Illinois.	6:30am-midnight ex. Sunday
49.34	6.08	ZHJ	Penang, F.M.S'.	6:40-8:40am ex. Sundays.
49.34	6.08	CP5	La Paz, Bolivia.	8-9:30pm.
49.42	6.072	QER2	Vienna, Austria.	9am-5pm Ex. Sun, Sat 9am-6p
49.42	6.07	YV7RMO	Maracaibo, Venezuela.	Testing.
49.46	6.065	HJ4ABH	Manizales, Colombia	6-7:45pm.
49.50	6.06	OXY	Skamlebaek, Denmark	1-6:30pm, Sun 11am-7pm.
49.50	6.06	W3XAU	Philadelphia, Penna	7-10pm.
49.50	6.06	W8XAL	Cincinnati, Ohio.	6:30am-7pm, 10pm-12:30am. Sun 7am-7pm, 10pm-12:30am
49.55	6.055	XEUW	Veracruz, Mexico.	7-12mid.
B49.59	6.05	HJ3ABD	Bogota, Colombia.	7-11:30pm.
49.63	6.045	H19B	Santiago, D.R.	11am-9pm, Sun 12:15-1:15am
49.67	6.04	W4XB	Miami, Florida.	N'n-2:30pm, Sun/Tues/Thur 9:15-10:30p, M/W/F/S/ 8:30
49.65	6.04	W1XAL	Boston, Mass.	Tues/Thur 7-9pm.
B49.69	6.037	HJ1ABG	Barranquilla, Col.	6:30-10pm except Sundays.
49.71	6.035	HJ4ABC	Ibague, Colombia.	8-10pm except Sundays.
49.75	6.03	HP5B	Panama City, Panama	8-10:30pm.
49.75	6.03	VE9CA	Calgary, Canada.	9am-midnight.
49.77	6.028	PRA8	Pernambuco, Brazil	2:30-8:30pm.
B49.77	6.028	HJ4ABP	Medellin, Colombia.	7-11pm except Sundays.
49.85	6.018	ZHI	Singapore, S.S.	Sat 10:40pm-1:10am, Mon/Wd Thur 5:40-8:10am.
B49.85	6.018	HJ1ABJ	Santa Marta, Col.	6-10pm.
49.88	6.015	HI3U	Santiago, D.R.	5:40-7:40pm.
49.91	6.012	HJ3ABH	Bogota, Colombia.	4-11pm, Sunday 4-9pm.

49.92	6.01	COCO	Havana, Cuba.	7:55am-7pm, Sun 8-10pm.
49.92	6.01	CJXC	Sydney, NS, Canada.	Will soon be in operation
49.92	6.01	FIU	Tananarive, Madagascar	4-4:45am, 9:45-10:15am.
49.95	6.005	CFCX	Montreal, Canada.	7am-midnight, Sun 8am-10p
49.95	6.005	HP5K	Panama City, Panama	8:30-10am, 1-2, 7-10pm.
50.00	6.00	XEBT	Mexico D.F.	10am-1:15am.
50.00	6.00	OAX4J	Lima, Peru.	7-11pm.
50.00	6.00	HJ5ABD	Calli, Colombia.	7-10pm except Sunday.
50.26	5.969	HVJ	Vatican City, Italy	2-2:15pm, Sunday 5-5:15pm.
50.29	5.966	HJ1ABC	Quibdo, Colombia.	5-6pm, Sunday 3-5pm.
50.42	5.95	HJN	Bogota, Colombia.	8:30-10:30pm ex. Sunday.
50.51	5.94	TG2X	Guatemala, Guatemala	Mon/Wed/Sat 9-10:30pm.
50.72	5.914	HH2S	Port-au-Prince, Haiti	7:30-9:30pm ex. Sunday.
50.76	5.91	YV15RV	Valencia, Venezuela,	will be in operation soon
50.86	5.899	YV8RB	Barquisimeto, Venez.	5:30-9:30pm ex. Sunday.
50.93	5.89	XEWI	Mexico D.F.	See 11.9mc.
51.07	5.875	HRN	Tegucigalpa, Hon.	6:30-8, 8:30-10pm. (ex. Sun
51.16	5.863	H11J	San Pedro, D.R.	11:40a-1:40p, 6:10-8:40p-
51.28	5.85	YV5RMO	Maracaibo, Venez.	8:30-9:30a, 11am-N'n, 4:30-9:30pm ex. Sundays.
B51.55	5.82	TIGPH	San Jose, C.R.	N'n-2pm, 7-11pm ex. Sunday
51.72	5.80	YV2RC	Caracas, Venezuela.	5:15-9:30pm.
51.72	5.80	ZEC	Salisbury, S. Rhodesia	Tu/F 12:15-3:15pm, M-11a Nn, Th 10am-Nn, Su 3:30-6am. Wed/Sat 9-11:30pm.
51.90	5.78	OAX4D	Lima, Peru.	5:30-midnight ex. Sundays.
52.45	5.72	YV1ORSC	San Cristobal, Ven	Sun/Wed/Th 6-9pm
52.51	5.713	TGS	Guatemala, Guatemala	4:30-10:30am, 5:30-7:30pm.
58.03	5.17	PMY	Bandoeng, Java.	Wed/Sat 8:19-10:19pm.
65.22	4.60	HC2ET	Guayaquil, Ecuador.	11pm-11:30am.
70.65	4.25	RV15	Khabarovsk, U.S.S.R	5:30-10am, 10:30pm-1:30am.
98.70	3.04	YDA	Tandjongpriok, Java	

A WORLD TIME CLOCK

Can be SET at ANY Time
Zone - In ANY City or
Country

Instantly Tells Corresponding
Time In Every Other Time
Zone "Around the World"

Actual size is 5 1/4 inches high
4 1/4 inches wide

Convex Crystal

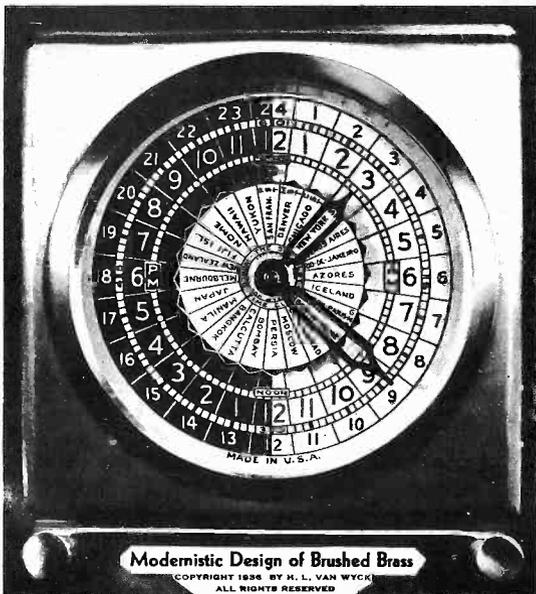
Indicates Minutes - Quarter Hours

Has A. M. and P. M. divided Dial

RETAIL PRICE

\$3.95

Postage extra in foreign
countries. Weight 2 lb



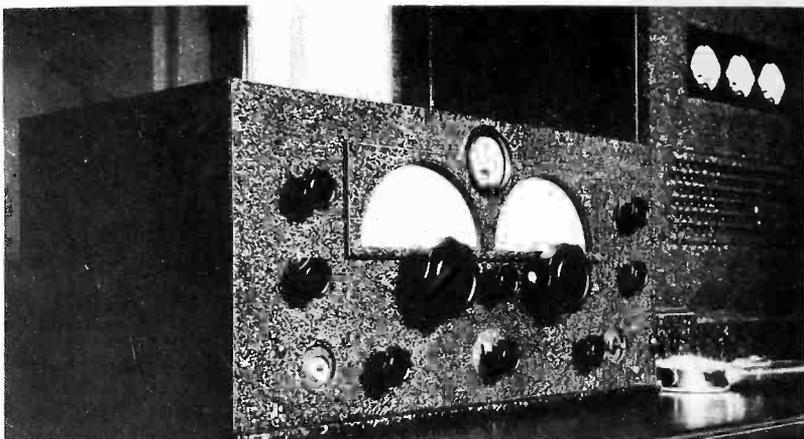
Modernistic Design of Brushed Brass

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UNITED STATES OF AMERICA

THE RME-69 SINGLE SIGNAL SUPER



A TYPICAL RME-69 RECEIVER INSTALLATION.

AN IDEAL SET FOR THE DISCRIMINATING DX'ER OR HAM
WHO WISHES THE ULTIMATE IN RECEPTION

* R.F. stage ahead of 1st detector builds up high ratio of signal to noise level and reduces image frequency response to a minimum..... Optional crystal filter, with variable selectivity control, for knife-edge selectivity on either phone or CW signals... Maximum sensitivity below one micro volt absolute..... Built in coil arrangement with wiping silver contacts on all switches.... Band spread continuous over entire range of 550 to 32000KC... Regular tuning dial calibrated accurately in megacycles..... Separate trimmer used for maximum resonance of R.F. circuits..... Carrier level indicator calibrated in R's and DB's.. CW beat pitch control... Head phone jack... Optional beat oscillator... Manual gain control... Optional AVC control.. All elements carefully treated for tropical use*.

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RME

The RME-69 Single Signal Super receiver is a custom-built, precision instrument. Its design and construction, including final calibration, is not a routine factory job, but comes under the class of model laboratory equipment. It is offered to those amateurs, experimenters, and engineers, who desire only the most up-to-date and complete high frequency receiver which an organization can produce. Each instrument is unconditionally guaranteed.



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