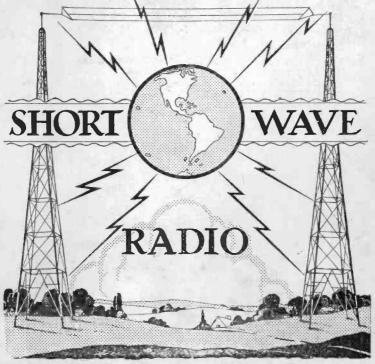
VOL. VI

SEPTEMBER, 1935

NO. 12

INTERNATIONAL



- Short Wave News.
- Accurate Station List.
- Hourly Tuning Guide.
- Police Stations.Aircraft Stations.
- And Other Features.

THE VOICE OF THE

INTERNATIONAL SHORT WAVE CLUB

EAST LIVERPOOL, OHIO, U.S. A.

Don't Let a Poor Aerial Spoil Otherwise Excellent Reception

The BEST Costs No More! Why Be Satisfied with Imitations?

As a result of LYNCH pioneering in the Aerial Field, many hundreds of thousands of antennas have been sold. But LYNCH HI-FI Antennas still maintain their superiority—technically mechanically and electrically.

There's a Reason!

Competitors have copied the fundamentals of noise-free aerials, but they cannot duplicate LYNCH PERFORMANCE.

LYNCH HI-FI Antennas are Patented and Guaranteed.

NOISE-REDUCING TWINS



purposes.......

LYNCH HI-FI ASSEMBLED ANTENNA

All ready to hang. Saves 90% of installation time. Any novice can install it—quickly, easily, correctly. Makes every \$6.75 set perform better on ALL wayes. Results are amazing....

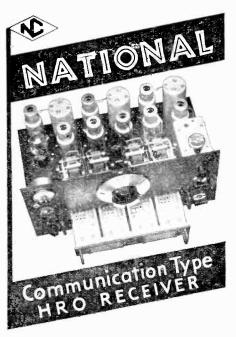
The ONLY Two Companion Devices For Reducing Noise on ALL Waves!

LYNCH FILTERADIO

Cuts out objectionable noise from the light line, consumes no current. Makes interference from circuit breakers, motor generators, etc., practically negligible. Easy to install; simple \$5.00 to adjust. One type serves all



ARTHUR H. LYNCH, Inc., 227 Fulton St., NewYork, N.Y. PIONEER OF NOISE-REDUCING AERIALS



Outstanding Features;

· Nine Tubes, not including Rectifier.

Two Preselector Stages.

Two I.F. Stages with Litz-Wound Coils. Air-dielectric Padding and Tuning Condensers

throughout in I.F. and R.F. Circuits.

. Strictly Single Control Tuning.

· Calibrated Band Spread.

· Four Gang Precision Condenser with preloaded

worm-drive tuning, 20 to 1 ratio.

Direct Reading Micrometer Dial, 500 divisions over a scale length of 12 feet.

Single Signal Crystal Filter built in.
 Automatic or Manual Volume Control.

· Electron Coupled Oscillators.

Beat Frequency Oscillator.

Signal Strength Meter, calibrated in S units.

NATIONAL COMPANY, Inc., Malden, Mass.

Gentlemen: Please send me immediately your bulletin describing the HRO receiver, and your General Catalog No. 240. I enclose 6 cents to cover mailing costs.

THE

Communication Type

RECEIVER

for the

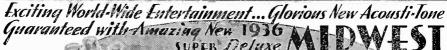
AMATEUR

Designed for reliable reception under adverse conditions, the HRO receiver offers the amateur superlative performance. Its circuit is notable in the use of Two Preselector Stages, giving remarkable image-frequency suppression and weak signal response. The first stage has been designed to give maximum gain to limit background Air-dielectric condensers are used throughout for padding the H.F. circuits, and for tuning the two high-gain Litz-wound I. F. stages. A Single Signal (Crystal) Filter is standard equipment, permitting reception under conditions that are otherwise hopeless. Nine tubes are used, not including the rectifier.

The mechanical design includes such details as ganged plug-in coils, precision worm-drive condensers, and micrometer dial. The latter spreads the tuning range over 500 divisions, numbered every tenth division, and has a scale length of twelve feet.

The new HRO receiver is on display at your dealers. He will be glad to demonstrate its many fea-If more convenient, the coupon below will bring a booklet describing it in detail.

SAVE # 50% by BUYING YOUR RADIO





"Have you seen the new 18-tube, 6-band, Acousti-Tone V-Spread Midwest?" It's an improvement over Midwest's 16-tube set, so popular last season. This amazingly beautiful, bigger, better, more powerful, super selective, 18-tube radio is not obtainable in retail stores but is sold direct to you from Midwest Laboratories at a positive saving of 30% to 50%. Out performs \$250 sets. Approved by over 120,000 customers. Before you

buy any radio write for FREE 40-page catalog. Never before so much radio for so little money. Why pay more? You're triply protected with: One-Year Guarantee, Foreign Reception Guarantee and Money-Back Guarantee.

RAAS AS LOW AS \$

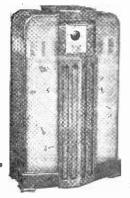
80 ADVANCED 1936 FEATURES

Midwest's brilliant performance made possible by scores of advanced features, many of them exclusive. Only Midwest tunes as low as 41/2 meters and as high as 2400 meters...6 hands...18 tubes ...push button tuning...acousti-tone V-spread design . . . pre-aged adjustments . . Fidel-A-Stat . . Triple Calibration ... etc. See pages 12 to 20 in FREE catalog. Six bands...offered for the first time! E

A. I. M. H and U...makes this super deluxe 18tube set the equivalent of six different radios ... offer wave bands not obtainable in other radios at any price! Now, thrill to new explorations in sections of radio spectrum that are strangers to you. Every type of broadcast from North and South America, Europe, Asia, Africa and Australia is now yours. Send today for money-saving facts!

MIRACO All Codes

Direct from MIDWEST LABORATORIES



Acousti-Tone V-Spread Design

(Pat. Pending) Send for FREE 40 page catalog illustrating new 1936 Midwest models and chassis in four colors. Full Scope High Fidelity Console. at left, shows dispersing vanes and exclusive V front that propel High Fidelity waves uniformly to the ear.

METAL TUBES

This Midwest is furnished with the new glass-metal counterpart tubes. Set sockets are designed to accept glass-metal or METAL tubes, without change.

Write for FREE facts.

DEAL DIRECT WITH LABORATORI

No middlemen's profits to payyou buy at wholesale price direct from labatories, ... saving 30% to 50%. increasing costs

are sure to result in higher radio prices soon. Buy before the big advance. . NOW .. while you can take advantage of Midwest's sensational values. You can order your 1936 Full Scope High Fidelity Acousti-Tone radio from the 40-page catalog with as much certainty of satisfaction as if you were to come yourself to our great radio laboratories. You save 30%, to 50%...you get 30 days FREE trial ... as little as \$5.00 puts a Midwest radio in your home. Satisfaction guaranteed or money back. Write today, for FREE catalog.

MIDWEST RADIO CORP.

Dept. 44-B

CINCINNATI, OHIO, U.S.A.

PUSH-BUTTON TUNING

Now. offered for first time! Simply pushing Silencer Button hushes set between stations while pressing Station Finder Button automatically indicates proper dial position for bringing in extremely weak stations.

Full-Scope High Fidelity . . . Split-Hair Selectivity

Now, get complete range of audible frequencies from 30 to 16,000 cycles as being transmitted by four new High Fidelity Broadcasting stations—W1XBS—W9XBY -W2XR-and W6XAL. Bring in distant, weak foreign stations, with full loud speaker volume, on channels adjacent to powerful locals.

Delighted With Super Performance

Davison, Mich. A radio engineer confirmed my opinion - that no other make of radio will compare with my Midwest for tone, selectivity, volume, ease of tuning and wider range. It is R. F. Collier. great entertainment.



Praises World-Wide Reception Maysville, Ky. My friends envy my Midwest and say it beats theirs in price and performance. It is amazingly sensitive and brings in Holland, Spain, etc. Its full, rich, non-fading tone denotes super quality and advanced workmanship. W. E. Purdon, Rural Route No. 1.



| MAI | L COUPON TODAY! FOR |
|------|----------------------------|
| | 30-DAY TRIAL OFFER and 40- |
| PAGE | FOUR-COLOR FREE CATALOG |

| Dept. 44-B Cincinnati, Ohie. 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. | Make Extra Mo Check He for Details |
|---|---|
| Name | |

| MIDWEST RADIO CORP., Dept. 44-B Cincinnati, Ohio. Without obligation on my part, send me your new FREE catalog and complete de- tails of your liberal 30-day FREE trial offer. This is NOT an order. | User - Agents Make Easy Extra Money Check Here for Details |
|--|--|
| Name,, | |
| Address | |
| TownSta Check here, if interested in a Midwest Auta Rac | |

International Short Wave Radio is published monthly by the International Short Wave Club of East Liverpool, Ohio, U. S. A. Subscription rate \$1.00 per year anywhere. Post Office or Express Company money orders, checks, cash or United States postage stamps accepted. The rate of exchange on \$1.00 may be learned at all postoffices or banks. Single copies, 10c each.

Note:—Readers who may find it more convenient may send their subscriptions to Arthur Bear, 10 St. Mary's Place, Rotherhithe, London, S. E. 16, England.

Readers are asked to be careful not to mistake this organization for others which may have a similar name. This is the original International Short Wave Club and all mass should be addressed to International Short Wave Club, East Liverpool, Ohio.

Text and illustrations in this magazine are copyrighted and must not be reproduced without permissions of the copyright owners. Copyrighted, 1935, by Arthur J. Green.

ARTHUR J. GREEN, Editor. ADVISORY COMMITTEE

JOSEPH B. SESSIONS Pres. Sessions Foundry Co. Bristol, Conn. JACOB KLEIMANS Meyer Koulish Co. New York City CHARLES SCHROEDER
Radio W3ATR
Philadelphia, Pa.

This Beautiful Globe for only \$2.75



F. O. B. Indianapolis, Indiana

A beautiful 12-inch globe showing the short wave stations of the world, with call-letters and location, for only \$2.75 F.O.B. Indianapolis. This globe is made by the world's greatest globe makers. It is modern in every detail, with all the latest changes in spellings and boundaries made. The map used in this globe was just finished in December, 1934.

The base is of walnut, highly finished. The globe itself can be cleaned by merely washing it with a damp cloth. Every short wave fan should have one of these globes for several good reasons. First of all, it marks the location of stations heard. Second, you can measure distances to the stations you hear. Third, it adds charm and beauty to any radio. Fourth, it creates interest in your short wave reception when people see this globe.

A free globe hand-book included in each sale.

PLEASE SEND POSTAGE

This new price does not include postage. Readers are requested to send the necessary postage when ordering. The shipping weight is eight pounds. In cases where more than enough postage is sent, we will return all not used.

Address your letters to-

INTERNATIONAL SHORT WAVE CLUB, East Liverpool, Ohio

ALL OVER THE CONTINENT, THEY'RE SAYING

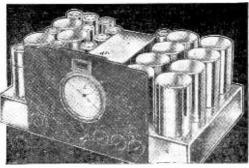
What a Radio Set!

(Telegram)

McMurdo Silver Corporation

Masterpiece Four just received provided more thrills in few hours than all other receivers owned during fifteen years - Stop - Always before had to be satisfied with best by comparison - Stop - Now for first time have receiver that is all I had hoped for - Stop - All I do is decide what characteristics are required for best reception under any set of conditions and adjust the controls to provide it - Stop - I can ask no more Stop - Congratulations on a fine achievement.

HARVEY MERCHANT (Minneapolis).



SILVER MASTERPIECE IV

The Finest Radio of All Time!

PIECE IVs are making performance records which critical owners say are unequalled and alone provides. by any other receivers they have ever operated. Scores of letters and telegrams received at the laboratory praise the amazing performance of the new MASTERPIECE IV.

In Government Service

The fast-growing list of MASTERPIECE IV owners includes governments, engineers, musicians, experienced listeners, broadcast station executives, radio editors—men who know and judge on the basis of merit alone. Officers of the flagship U.S.S. Pennsylvania, The Federal Communications Commission (U.S.A.), and Dr. Antonio Joyce, Director of Broadcasting for the Portuguese Government, were among the first purchasers of the new MASTERPIECE IV.

This custom built, world-wide receiver has all one could wish for in an all-wave set -lifelike tonal fidelity, unlimited distance range, freedom from noise, extreme and variable selectivity, great power without distortion, amazing flexibility of operation-made

McMURDO SILVER CORP.

Division of G. P. H. Inc.

3351 N. PAULINA STREET CHICAGO, ILL., U.S. A.

All over the continent, Silver MASTER- possible by 25 entirely new engineering advance-

All of these features are completely described in the 32-page "Blue Book" which will be sent on request, without cost or obligation. Mail the coupon today and learn what entirely unhampered engineering has done to bring you truly world-wide all-wave reception at its very best.

TRY IT FOR 10 DAYS

Because we know the new MASTERPIECE IV can out-perform any other radio receiver in existence today, at any price, we freely invite you to make us prove it. Try it out in your own home or laboratory, under your own reception conditions. Put it to every test. If you are not entircly satisfied, you can have your money back. The coupon will bring you details of this remarkable 10-Day Trial Offer.

| MAIL COUPON FOR BOOK |
|---|
| McMURDO SILVER CORP., 3351 N. Paulina St., Chicago, U.S.A. |
| Send Free "Blue Book" with complete specifications of Silver MASTERPIECE IV. also details of 10-day Trial offer and 5 year Guarantee |
| Name |
| City State 9SW |

MALL COUDON FOR DOOK

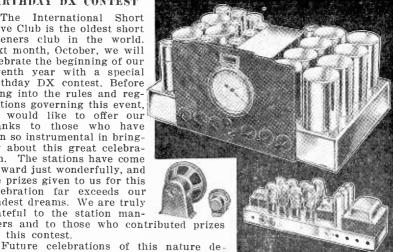
BIRTHDAY DX CONTEST

The International Short Wave Club is the oldest short listeners club in the world. Next month, October, we will celebrate the beginning of our seventh year with a special Birthday DX contest. Before going into the rules and regulations governing this event. we would like to offer our thanks to those who have been so instrumental in bringing about this great celebration. The stations have come forward just wonderfully, and the prizes given to us for this celebration far exceeds our fondest dreams. We are truly grateful to the station man-

agers and to those who contributed prizes for this contest.

pends entirely now on the response we will receive from the listeners and on how many reports we receive on these programs. With stations

spending thousands of dollars for programs and friends Receiver, First Prize contributing wonderful prizes, we must have many reports to show for this trouble and expense. In most contests of this nature, many people simply assume



Masterpiece IV in the contest.

that they have no chance of winning and do not enter. We have arranged this program in a manner unlike any DX contest ever held, and we believe that many people who may think they do not have a chance, will be able to win one of the prizes if they will just put forth a little bit of effort, for the prizes will not be awarded for the number of stations heard. Instead, the accuracy and completeness of the reports will count. This means that a listener with a small set, if he is pains-taking in his reception and in making out his report, will have the same opportunity as someone with a powerful receiver.

Below you will find the list of rules. It is regrettable that some of the stations have picked the same time to broadcast, but we left the date and time of each program up to the station owners, so that no one could say we arranged these programs to favor certain parts of the world. In cases where two stations are on the air at the same time, the listener may choose his own station to report.

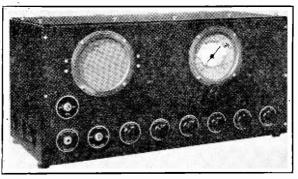
Here are the rules:

1. Any listener, excepting officers of the club, the judges and relatives of the same, may take part. Members and non-members of the I.S.W.C. will receive the same courtesy.

- 2. The Judges are Arthur H. Lynch, Clifford E. Denton, Jacob Kleimans, Arthur E. Bear, Joseph B. Sessions, Joseph Reaney, and Thomas Reaney.
- 3. The persons sending in the best reports on the programs listed will be awarded the prizes. The list shown will be official, and any changes made by the stations will not effect this list whatsoever. All times shown are Eastern Standard which is five hours later than G.M.T.
- 4. All reports must be sent to the International Short Wave Club, East Liverpool, Ohio. Reports should reach us by December 15th. These reports may be sent at the end of each day, or all sent at the same time. Each program should be put on a separate sheet of paper, but this is not absolutely necessary. They do not have to be typewritten.
- 5. Reports will be judged on accuracy and completeness of detail. Titles of selections heard, names of speakers, type of music heard and such details as these should be given in the report.
- 6. Any person found guilty of sending in a false report on one station will be eliminated from the contest entirely. Allowances will be made for discrepancy in time, etc. But anyone sending in a report made up from imagination will be eliminated.

LIST OF PRIZES

The First Grand Prize to be given out is a Masterpiece IV Receiver. complete with twin speakers, tubes, and amplifier. This is the very latmodel Masterpiece, emboying all, the latest developments in radio. This wonderful prize was contributed by the McMurdo Silver Corporation, 3351 North Paulina St., Chicago



Second Prize - A Hallicrafter's Super-Seven

Ill. A picture of this receiver is shown at the beginning of this article.

The Second Grand Prize is a Hallicrafter Super-Seven receiver, the very latest model brought out by Hallicrafter's. This beautiful receiver was contributed for this contest by Hallicrafters, 3001 Southport Street, Chicago, Illinois. We also show a picture of this receiver.

The Third Grand Prize is a Amperite Velocity Microphone, the very latest development in microphones, which was contributed by Amperite Corporation of 561 Broadway, New York City.

Below is listed the other prizes which will be given out in this contest. The judges will decide which prizes are to be awarded the contestants,

as well as to which contestant will take the prize. In doing this, we are making the work lighter for the judges.

THE CONTRIBUTOR

THE PRIZES

| TIID TRUBBO | THE COMPREDE TOR |
|---------------------------------------|--|
| No. 20 Taco Antenna System | .Technical Appliance Corp., Long Island City, New York. |
| All-Wave Deluxe Hi-Fi Antenna gystem | Arthur H. Lynch, Inc., 227 Fulton Street, New York City. |
| National PW-1 Condenser-Dial | National Co., Inc., Malden, Mass. |
| Power-Amplifier | Harrison Radio Co., 142 Liberty St., New York City. |
| All-Wave Antenna Kit | |
| Acme Headphone Set | |
| Phone Receptor | Sol Perlman, 227 Fulton St., New York City. |
| Model 196-F Featherweight Headset | Trimm Mfg. Co., 1528 Armitage Av., |
| Ribbon Battery | . Burgess Battery Co., Freeport, Ill. |
| Alpha Antenna Kit | .Alpha Wire Corp., 50 Howard St., New York City. |
| \$10.00 Credit Check | .P. R. Mallory Co., 3029 E. Wash- |
| Brandes Headphone Set | Sun Radio Co., 2 ² 7 Fulton St., New |
| SW-4 Short Wave Coil Set | L. A. Hammarlund Mfg. Co., 424 W. 33rd St., New York City. |
| SW-4 Short Wave Coil Set | .L. A. Hammarlund Mfg. Co., 424 W. |
| Six Variable Condensers (six prizes). | 33rd St., New York City. Sprague Products Co., N. Adams, Mass. |
| Ten Call-Books (ten prizes) | . Radio Amateur Call-Book, Inc., 608 |
| Drip-O-Lator | S. Dearborn St., Chicago, Illinois. Enterprize Aluminum Co., Oberlin |
| Twelve-Inch World Globe | Road, Massillon, Ohio. .W. D. Martin, 2574 Kolowalu St., Honolulu, Hawaii. |
| Radio Handbock | Radio, Pacific Bldg., San Francisco, |
| Dial | California. Crowe Nameplate & Mfg. Co., 1749 |
| Bud Giant Coil Form | Grace St., Chicago, Illinois. Bud Radio, Inc., 1923 E. 55th St., |
| Bruno Coil Kit | |
| Microphone | Covington, Ky. Frank Grey, 6530 Sinclair Avenue, Berwyn, Illinois. |

| \$5.00 in trade | Federated Purchasers, 20 Murray St., New York City. |
|--------------------------------|---|
| recording) | Meyer Koulish Co., 64 Fulton St., New York City. |
| One 24-hour Clock | Bristol, Conn. |
| Electric Soldering Iron | wich St., New York City. |
| Radio Touch Tynewriting Course | .Candler System Company, Box 331. Asheville, North Carolina. |
| Junior Code Course | .Candler System Company, Box 331. Asheville, North Carolina. |

THE PROGRAMS

Only the programs listed below will be counted in the contest. Reports on other stations and reports on these at times other than shown in this list will not be counted. In cases where two stations are on as the same time the listener may choose which station he wishes to report. The time given is Eastern Standard, which is five hours behind G.M.T.

October 1st, 10:00 P.M. to 11:00 P.M., Station YV5RMO on 51.28 meters,

October 2nd, 6:00 to 7:00 P.M., Station 2RO on 31.13 meters, 9.63 mc. October 2nd, 8:00 P.M. to 9:00 P.M., Station W2XAF on 31.48 meters,

October 2nd, 10:30 P.M. to 11:00 P.M., Station HJ3ABH on 49.90 meters,

6.01 mc. October 3rd, 3:00 P.M. to 4:00 P.M., Station W3XAU on 31.28 meters, 9.59 mc.

October 3rd, 10:00 P.M. to 11:00 P.M., Station W3XAU on 49.50 meters, 6.06 mc.

October 5th, 11:00 A.M. to noon, Station CP7 on 19.60 meters, 15.30 mc. October 6th, 8:00 to 9:00 P.M., Station H14D on 45.40 meters, 6.61 mc. October 8th, 10:30 A.M. to 11 A.M., Station HVJ on 19.84 meters, 15.11 mc. October 9th, 11 A.M. to 11:30 A.M., Station VUB on 31.36 meters, 9.57 mc. October 10th, 1:35 P.M. to 1:45 P.M., Station VQ7LO, on 49.50 meters, 6.06 mc.

October 10th, 7:00 P.M. to 7:30 P.M., Station EAQ on 30.40 meters, 9.87 mc. October 10th, 8:00 to 10:00 P.M., Station HJ5ABC on 48.78 meters, 6.15 mc. October 13th, 1:00 to 2:00 A.M., Station W8XAL on 49.50 meters, 6.06 mc. October 15th, 9:15 P.M. to 11:15 P.M., Station HC2RL on 45.00 meters, 6.66 mc.

October 17th, 10 P.M. to 10:30 P.M., Station HP5B on 49.75 meters, 6.03 mc. October 18th, 8:00 to 10:00 P.M., Station TIRCC on 45.81 meters, 6.55 mc. October 19th, 10:30 P.M. to 11:30 P.M., Station HJ1ABG on 49.65 meters, 6.04 mc.

October 19th, 10:40 P.M. to 11:40 P.M., Station HIZ on 47.50 meters, 6:31 mc.

October 20th, 7:00 A.M. to 7:30 A.M., Station VK2ME on 31.28 meters, 9:59 mc.

October 20th, 5 P.M. to 7 P.M., Station W1XAL on 25.42 meters, 11.79 mc,

October 20th, 6:00 P.M. to 7:00 P.M., Station XECR on 40.65 meters,

October 20th, 7:30 to 8:00 P.M., Station YV6RV on 46.01 meters, 6.52 mc. October 20th, 10:30 P.M. to 11:30 P.M., Station HJ1ABE, on 49.05 meters,

October 20th, 11:30 P.M. to 12:30 A.M., Station W2XE on 49.02 meters,

6.12 mc.

October 22nd, 8:30 to 9:00 P.M., Station YV2RC on 49.08 meters, 6.11 mc. October 23rd, 8:00 A.M. to 10 A.M., Station PCJ on 19.71 meters, 15.22 mc. October 26th, 2:00 to 3:00 P.M., Station LKJ1 on 31.48 meters, 9.53 mc. October 26th, Series of Programs from PI1J on 42.35 meters, 7.082 mc.

8:40 to 9:00 A.M., 10:40 to 11:00 A.M., 12:40 to 1:00 P.M., 2:40 to 3:00

P.M., 4:40 to 5:00 P.M. and 6:40 to 7:00 P.M.

October 26th, 2.45 to 3:00 P.M., Station CR6AA on 41.8 meters, 7.177 mc. October 26th, 7:00 P.M. to 8:00 P.M., Station VE9GW on 49.22 meters,

6:09 mc.

October 27th, 12:01 to 3:00 A.M., Station CJRX on 25.60 meters, 11.72 mc. October 27th, 12:01 A.M. to 3:00 .A.M., Station CJRO on 48.85 meters,

6.15 mc.

October 28th, 12:01 A.M. to 2:00 A.M.. Station W9XAA on 25.30 meters,

11.83 mc.

October 30th, 7:00 to 11:30 P.M., Station OAX4G on 48.22 meters, 6.22 mc. October 31st, 9:00 P.M. to 10:00 P.M., Station HJ1ABD on 41.20 meters, 7.28 mc.

Greetings will also be sent from stations at Zeesen, Germany, but since no definite time has been arranged for these, they will not be counted in the contest. We would be glad to have reports on these broadcasts, of course, but they will not be counted by the judges. The B. B. C. at Daventry, England, will also send greetings at 7:45 P. M. on October 7th. Listen for this.

MEMBERSHIP CONTEST

The membership contest which started in January and ended August 15th was won by J. W. Cope, Kelowona, B. C.. Canada, with a total of 60 members. He wins the beautiful Midwest 16-tube all-wave receiver which was offered for the first prize. Second place was won by L. E. Hansen, Esplanade, Durban, South Africa. He gets a world globe. Third place was won by W. D. Martin, of Honolulu, Hawaii, who gets a world globe. This means that the first three prizes were won by members from over-seas. It is strange that these contests are always won by over-seas members. Mr. Hansen sent us 19 memberships while Mr. Martin sent us fifteen.

M Kyaw Min, Pyapon, Burma, near India; Arthur Bowes of Cicero, Illinois, and I. S. Milman of Bronx, New York, each sent us eight new members and win a years membership. Forrest D. Poole, Portsmouth, Ohio; John E. Davenport of Stamford, Conn.; A. H. Dalal of Broach, India; Rud Myhol of Carolina, Puerto Rico; D. R. D. Wadia of Bombay, India; Charles Nick, Philadelphia, Pa., each win a world atlas.

IN MEMORIAM

William D. Martin, 2574 Kolowolu St., Honolulu, Hawaii. John Swain, Post Office Dept., Honolulu, Hawaii.

Ernie West, Indio, California.

Mrs. R. G. Summers, 426 University Ave., Buffalo, N. Y.

These are perhaps the hardest lines to write that we have ever written. William D. (Bill) Martin was very close to us. All through the pages of this magazine you will read news sent to us by Mr. Martin just before his death. You will also notice where he won third place in the membership contest. And in another place you will see where he contributed a globe for our Birthday Celebration. Mr. Martin will not soon be forgotten by short wave listeners of the world, and particularly so by the members of this organization. His passing leaves us with a feeling not easily described. It is one of the severest blows we have ever received.

John Swain of Honolulu was also quite a short wave fan. For Honolulu to lose two such men as Bill Martin and John Swain that must have

heen a terrible blow.

Ernie West of Indio, California, was also an active member, although his name did not appear often in print. Mrs. R. G. Summers is the wife of Club-member R. G. Summers, who wishes us to notify friends of Mrs. Summers in England and South Africa. Never before in the history of the ISWC has one month taken from us such wonderful friends.

BOOSTERS

As we come to the end of another year in the history of this organization, we are deeply grateful to those who have contributed to our success. Without the fine friendship which exists toward this organization, we would not last long. We are grateful to those who helped us by word of mouth, to those who have sent reports and suggestions, to those manufacturers who have recommended the club, to those publishers that have helped us, to the station operators who have sent special programs and

everyone who has helped us in any manner whatsoever.

We have special thanks this month to J. W. Brown of Barbados for his recommendation in a newspaper printed there and one for Philco of London, England, for their excellent recommendation. We also thank the following members for securing new members for us. Ernest Eckel. Portof-Spain, Trinidad; K. Masumoto, Honolulu, Hawaii; Commander G. W. Stewart, San Juan, Puerto Rico; E. C. Connell, San Juancito, Honduras; Warren Rosenlund, Worcester, Mass.; Roy Duggan, Sandersville, Ga.; 1. Wild, Middleton, Manchester, England; Philco Midland Distributors, England; H. Macomber, Rutland, Vt.; W. P. Taylor, Olympia, Wash.; Geo. Van Honk, Erie, Pa.; Albert Guy, Worcester, Mass.; Frank Ballintine, Philadelphia, Pa.; Wallace W. Smith, Louisville, Ky.; Jules Meloche, St. Lambert, Quebec; H. S. Bradley, Hamilton, N. Y.; C. Cramp, Leicester, England; R. Sanger, Hong Kong, China; E. D. Godfrey, Tarrytown, N.Y.; Howard Muir, Racine, Wisconsin; Don Cooper, Norwood, Ohio; Chester B. Myers, Cedar Rapids, Iowa; Charles Kassman, Gasconade, Mo.: J. M. Aaron, Manila, Philippines.

SHORT WAVE NEWS

What many people call "skill" in tuning for short wave stations is nothing more or less than knowing WHEN and WHERE to tune for stations. Nearly all short wave stations are experimental and change their wave lengths or schedules almost without notice. To know when these changes take place is as important to successful reception as having a

good receiver.

The average short wave station list contains hundreds of stations that have closed down, changed wavelengths or schedules, or have never really operated. The only reliable and helpful information comes direct from listeners, and even this must be published quickly in order to be of help. The information in this magazine is gathered by members of the club living in practically all parts of the world. Without this information, hundreds, or even thousands, of programs would be missed by readers. And without it, we would not be able to produce such a magazine. So, we say to all, "Thank You." This information is corrected up to within three days of the date of mailing. Other magazines usually make up copy from two to four months in advance of publishing.

The time is given in Eastern Standard. Add five hours for Greenwich Mean Time.

THE AMATEURS

A total of 73 foreign amateur stations from 24 countries was reported to us last month, and it would be a big job to list them. Since some of the call-signs are conflicting in the reports, too, it seems best not to mention call-signs. There were eight Australian stations heard, all on the 20 meter or 14 mc. band. This might help some members in their H-A-C grades. We suggest that every member tune for these amateurs near 21 meters, or 14.30 mc. from noon till around 11:00 P.M. There are also a good many foreign amateurs heard on voice near 41 meters or 7.00 mc. These are heard after dark. One member reports 112 amateurs on the 21 meter band on voice. We suggest that everyone interested in these stations, and in getting verifications from them, send for a copy of Radio Amateur Call-Book, which lists over 50,000 amateurs all over the world. Last month we answered over 50 letters asking for addresses of amateurs. Many did not send postage, either. We can not keep this up long, as it not only takes postage, but takes up a lot of time. Reports have come from members Al. Leonhardt, Thomas Grey, Frank Grey, Charles Miller, J. B. Wooten, George Zehner, Bob Everard, Donald Teague, John Wojtkiewis, H. S. Bradley, Robert Legge, L. Papernow, Robert Hughes, Abe Federing. R. B. Nance, Ernest Orchard, W. D. Martin.

THE SHIPS

The "Effie Morrisey," with Capt. Bob Bartlett, is again at sea. Under the call W10XFP, the "Morrissey" is heard working on voice on 21.14 meters, or 14.19 mc. Julius Ross is the operator, and we do not yet know

where reports should be sent. They are also on 12.862 mc. and 8.655 mc.

using code. Quite a few members report this station.

Lt.-Col. A. R. Budd, of Windsor, Mass., jumps on us over our list of ships, but does not send any help except to say that the "Leviathan" is no more. It would surprise him to know the Leviathan was heard not so long ago, long after it was docked. We want to fix this list up, of course, and thank Colonel Budd, but must have the dope before we can do anything. The "Normandie" is the latest "splash" in the ship lanes. It is ships in the channels shown in our list.

SOUTH AMERICANS

YV8RB, Barquisimeto, Venezuela, on 51.60 meters, 5.88 mc. A. Franceschi Calvani of Rie Caribe, Venezuela, says this station is on 51.2 meters. It is known as "La Voz de Lara." Charles Hart, operator on the S. S. Trujillo has a letter from them saying they are on 51.60 meters, 5.88 mc., with 400 watts power and they broadcast from 6:00 to 10:00 P.M. We have not listed this one yet, because we do not have exact details. Mr. Calvani also reports YV5AM on the air from 3:00 to 4:00 P.M., and he mentions stations YV4AC and YV7AC but gives no waves or time. He also says YVQ and YVR broadcast Sundays 11:00 A.M. to noon.

YV10RSC, Santa Cristobal, Venezuela. On 52.45 meters, 5.72 mc. A new station. Heard around midnight calling Panama, Santa Marta, Maracay and other cities, using mostly English, by Ashley Walcott, San Francisco, Calif. It is licensed for 52.45 meters, 5.72 mc. but heard on 5.74 mc. The owner is Jesus M. Diaz Gonzales, according to Radio Club. Venezuela.

YV2RC, Caracas, Venezuela. 49.08 meters, 6.112 mc. Heard testing after regular broadcast period, up until 1:13 A.M., by Bob Everard, Standon, England, and F. A. Beane, Ridgewell, England.

YV6RV. Velencia, Venezuela. 46.01 meters, 6.52 mc. Schedule is 6:00 P.M. to 10:00 P.M., but heard at 5:30 A.M. by F. A. Beane, England.

YVQ, Maracay, Venezuela, 44.96 meters, 6.67 mc., is a regular phone station, but is now broadcasting a program every Saturday night from 8:00 to 8:30 P.M., but can be heard before and after that time. Gave address as Radiodifusora Nacional, Maracay, Venezuela. Reported by members L. Papernow, Bob Everard, Dr. R. C. Kash, Sam Solito, H. J. Davison, G. C. Gallagher, H. Frost and Alf Mann.

The phones YVR on 32.83 meters, 9.14 mc., and 16.39 meters, or 18.30 mc., are reported by many. On 32.83 meters they work EHY, Spain, daily at 4:00 P.M.

PRF5, Rio de Janeiro, Brazil, 31.56 meters, 9.50 mc. This station has apparently changed schedule and is broadcasting now from 4:45 to 5:45 P.M. This comes from members Mrs. Irving Heglund, Lake Worth, Florida; E. Orchard, Weymouth, England; Flavio Mascarenhas, Bordeaux, France; Gerald Taylor, Oxford, England; F. A. Beane, Ridgewell, England and XDX, Philadelphia. During the past month they tested many times with stations in Rocky Point, New York, between 9:00 and 10:45 P.M. This news comes from members G. C. Gallagher, San Francisco; H. J. Davison, Bayamon, Puerto Rico; H. S. Bradley, Hamilton, N. Y.; Don

Teague, Santa Paula, California: Ken McKinley, Vancouver, B. C.: Ashley Walcott, San Francisco: Robert Muncie, Kalamazoo, Michigan, and Frank

Grev. Berwyn. Illinois.

PRAS, Radio Club Pernambuco, Brazil, 49.67 meters, 6.04 mc., has increased power to 3,000 watts and broadcasts daily 9:30 to 11:00 A.M.: 1:00 to 3:00 P.M. and 4:00 to 7:30 P.M. This comes from Flavio Mascarenhas, Bordeaux, France. This station is heard in Europe far better than in the United States.

CEC, Santiago, Chile, on 28.12 meters, 10.67 mc. Cards from this station say they broadcast Thursdays from 8:30 to 9:00 P.M. with 2,000 watts power. They have also been heard on Sundays at the same time. The address of the station is given as Cia Internacional de Radio, S.A., Santiago, Chile. Some say it is Cassilla (Post office box) 16D. These programs and cards are reported by members Nick Gaug, Ed Lips, August Balbi, Edward Houlgate, Arthur Lunn, Sam Solito, Roger Legge, Jack Watrous, Don Teague, G. C. Gallagher, Dr. R. C. Kash, George Van Honk, Alden Fowler, Lewis Greenman, L. D. Brewer, Sidney Fink, and A. An-We suggest members tuning for these programs as they are heard well. Art Lunn says that CEC is also on 15.24 meters, 19.69 mc., working HJY, Colombia, daily at 10:00 A.M. and 5:00 P.M.

VP3MR, Georgetown, British Guiana. On 42.37 meters, 7.08 mc. H. S. Bradley of Hamilton, New York, has a letter from this station giving the the schedule as Sundays 7:45 A.M. to 10:15 A.M., Mondays 3:45 to 4:45 P. M., and 6:45 to 7:45 P.M. Wednesdays 6:45 to 7:45 P.M., Thursdays 5:00 P.M. to 6:45 P.M. and Saturdays 6:45 to 7:45 P.M. Heard from 6:57 to 8:53 P.M. once, according to Bob Everard, Standon, England. Lionel F. Stetson of Chicago, says a VP2BG on 41.00 meters, 7.135 mc., in the same city is broadcasting daily 4:30 P.M. to 6:00 P.M. and 6:30 P.M. to 8:00 P. M., but no one reports reception of it this month.

PZH, Paramaibo, Surinam, Dutch Guiana. On 42.00 meters, 7.14 mc., broadcasting daily till 5:00 P.M. and on Mondays and Thursdays 6:40 to 9:00 P.M. according to Samuel Sternberg, Far Rockaway, N Y. This news was given last month, and no one has reported this station as yet.

OAX4G, Lima, Peru. A letter from the owners say the call-sign is now OAX4G instead of OAX4B. Our letter gave the schedule as Wednesdays only from 7:00 to 11:30 P.M., but Wilfred Siddle, Birmingham, Alabama, says it is daily from 7:00 to 11:30 P.M. They are on 48.00 meters 6.23 mc.

OAX4D, Lima, Peru. On 51.90 meters, 5.78 mc. A letter to this station should be sent to All-American Cables, Casilla 2336, according to Ed. Lips. Pittsburgh, Pa., and Dr. R. C. Kash, Seiverville. Tenn.

OCJ, Lima, Peru. Someone reports this station has moved to 20.72

meters, 14.48 mc., from 20.19 meters or 14.86 mc. Please check.

LSM, Buenos Aires, Argentina. On 15.68 meters, 19.13 mc. Broadcasting a program one Friday from 5:00 to 5:30 P.M., according to Art Lunn, Maplewood, New Jersey. Phones London at 1:00 P.M., according to Charles Miller, Covington, Ky. LSX, Buenos Aires, on 28.98 meters, 10:35 mc., was broadcasting a program one Monday at 7:30 P.M., says Frank Grey, Berwyn, Ill.

CP5, La Paz, Bolivia. On 49.34 meters, 6.08 mc. Schedule is 8:00 P.

M. to 9:00 P.M. daily, but is reported at 7:00 P.M. instead of 8:00 by Ernest Orchard, Weymouth, England. CP6 on 32.88 meters, 9.12 mc. was supposed to start broadcasting August 15th every day up till 10:30 P.M. according to Art Lunn, Maplewood, New Jersey. No one reports reception. CP7, on 19.6 meters or 15.30 mc. will broadcast a part of our Birthday program on October 5th, from 11:00 A.M. to noon.

HC2JSB, Guayquil, Ecuador. Charles Miller, Covington, Ky., says they are on 38.51 meters, 7.79 mc., now, have increased power and can be heard from 8:15 to 11:15 P.M. Sam Solito, Leetsdale, Pa., also says they are

on 7.79 mc. now.

HC2AT. Sent us a card saying they are no longer on the air, but Frank Grey, Berwyn, Illinois, claims they are. Were on 35.72 meters, 8.45

mc. from 8:00 to 10:00 P.M.

Prado, Rio Bamba, Ecuador. On 45.31 meters, 6.62 mc. Was on the air Thursdays from 9:00 to 11:00 P.M., but reported by Dr. R. C. Kash one Saturday up until 10:50 P.M. relaying another station.

HC2ET, Guayquil, Ecuador. On 65.22 meters, 4.60 mc. Heard good on Wednesdays and Saturdays from 9:30 P.M. to 11:00 P.M. Use a set of chimes. This is from John Stewart, Houston, Texas. Also reported on Tuesdays at the same time by Max Horlick, Youngstown, Ohio.

HCK. Quito. Ecuador. Reported in several places on the dial. Heard on 5.89 mc. phoning YV4RC, TIGP from 11:30 P.M. to 1:00 A.M. by Sam Solito, Leetsdale, Pa. Heard on 48.7 meters from 10:30 to 11:30 P.M. by Dr. Kash, Seiverville, Tenn. Was on 5.885 mc. at 11:08 P.M. when heard by Wilfred Siddle, Birmingham, Ala. On 5.880 mc working HJ3ABF (HKF) one Tuesday at midnight, according to Sidney Fink, Detroit, Mich.

HCJB, Quito, Ecuador, on 36.50 meters, 8.21 mc. Heard quite well now daily excepting Mondays, 7:30 to about 10:00 P.M. Sometimes later on tests.

Short Wave Book REGULAR PRICE . . \$1.00

OVER 200 PAGES

The Ninth Edition of QST Hand Book given away FREE with every pair of Genuine Nathaniel \$4.75 Baldwin Mica Diaphragm Phones

BLAN, THE RADIO MAN, Inc.

177 GREENWICH STREET

Established 1923

NEW YORK, N. Y.

The following list of Colombian stations was sent to us by the officials there:

| Call Sign City Meters | Meg. | Owner | Power | • |
|---------------------------|-------|---------------------|---------------|-----|
| HJ1ABB, Barranguilla46.51 | 6.45 | Elias J. Pellett B. | 100 wa | tts |
| HJ1ABD, Cartagena41.28 | 7.2 | I. Villarreal | 180 wa | tts |
| HJ1ABE, Cartagena48.98 | 6.13 | J. M. Fuentes L. | 180 wa | tts |
| HJ1ABG, Barranquilla49.60 | 6.04 | Jimeno G & Cia | 150 wa | tts |
| HJ1ABJ, Santa Marta49.95 | 6.00 | Julio Sanchez I. | 50 wa | |
| HJ2ABA, Tunja48.60 | 6.17 | P. Sanchez | 50 wa | tts |
| HJ2ABC, Cucuta50.90 | 5.89 | | 50 w a | tts |
| HJ2ABD, Bmanga50.85 | 5.90 | Sociedad Radio | 50 wa | |
| HJ3ABD, Bogota40.55 | 7.40 | Alford Radio | 50 wa | |
| HJ3ABF, Bogota48.62 | 6.17 | Uribe & Moreno | 50 wa | |
| HJ3ABH, Bogota49.83 | 6.01 | M. J. Gaitan | 1000 wa | |
| HJ4ABA, Medellin25.60 | 11.71 | | 100 wa | |
| HJ4ABB, Manizales49.15 | 6.10 | A. Estrada | 300 wa | |
| HJ4ABC, Pereira48.00 | 6.25 | | 50 wa | |
| HJ4ABE, Medellin50.60 | 5.93 | | 1000 wa | |
| HJ4ABL, Manizales49.40 | 6.07 | A. Estrada | 50 wa. | |
| HJ5ABC, Cali48.78 | 6.15 | R. Angulo | 15 wa | |
| HJ5ABD, Cali46.30 | 6.48 | | 15 wa | tts |
| HJ5ABE, Cali42.46 | 7.05 | J. T. Calderon N. | | |

HJ5ABE is heard on 21.26 meters, or 14.10 mc., broadcasting from 7:00 P.M. till midnight and sometimes till 1:00 A.M. They announce the wavelength as 21 meters. The address is Apartado 50. It is reported this month by close on to a hundred members, so they are getting out well.

HJ4ABA, Medellin, on 25.62 meters, 11.71 mc. Card says they are known as "Ecos de la Montana," have 100 watts power, and broadcast daily 11:30 A.M. to 1:00 P.M. and 6:30 P.M. to 10:30 P.M. This is from Don Gross, Asheville, North Carolina. Heard later than this by Bob Everard, Standon, England, and A. J. Hayward, Trowbridge, England.

HJ4ABE, Medellin, on 50.60 meters, 5.93 mc. A card says they broadcast daily 11:00 A.M. to noon and 6:00 P.M. till 10:30 P.M. This is from Don Gross. Reported signing off with English announcements now, giving the wavelegth as 51.60 meters, which is wrong. Sometimes they sign off at 10:30 P.M., other times at 11:00 P.M., and this is reported by members J. Wajtkiewic, Thomas Grey and Ken McKinley.

HJ4ABG, Medellin, an amateur station on 42.2 meters or 7.11 mc. broadcasts music at times, and is heard from 10:00 P.M. till 1:00 A.M., by Jimmie Reese, New York City. Their address is Apartado 239.

HJ4ABC, Periera, has moved. Heard on 49.67 meters, 6.04 mc. from 7:30 to 8:30 P.M. according to Sam Solito, Leetsdale, Pa., and on 50.00 meters or 6.00 mc., from 6:00 to 9:00 P.M. by Dr. G. G. Villalobos of New Orleans, La. They are not on 48.00 meters now.

HJ3ABF, Bogota, on 48.62 meters, 6.17 mc. This station sometimes uses their old call HKF. Are now on 6.18 mc. and will increase power to 1,000 watts soon according to Charles Miller, Covington, Ky. Tested with W2XAF New York one Thursday at 10:30 P.M. according to Sam Solito, Leetsdale, Pa.

HJ1ABJ, Santa Marta. Exact wave not known. Was on 49.95 meters, 6.006 mc., working YV5RMO at 11:35 P.M. says Ernest Orchard, Weymouth, England. At 12:15 A.M. on that wave according to John Wojtkiewic, Philadelphia. Was on 50.50 meters, 5.94 mc., from 7:00 to 9:00 P.M. according to many other reports.

HJ1ABE, Cartagena. Was on 49.05 meters, or 6.11 mc. for months, then moved to 48.98 meters or 6.13 mc. Still say they are on 49.05 meters Schedule is daily 7:30 to 9:00 P.M. and Mondays 10:30 to 11:30 P.M. Heard one Friday at 10:45 P.M. according to Cyril Gilmour, Kingston, Ont.

HJ4ABJ, "Ecos del Combeima," at Ibaque, on 47.60 meters, 6.30 mc. is reported from 6:00 to 9:00 P.M. by Dr. Villalobos, New Orleans, who also/says HKV has moved to 42.50 meters, and is heard Tuesdays. Thursdays and Saturdays 7:00 to 9:00 P.M. Wonder if it isn't HKE he is hearing?

HJA3, the phone station at Bogota is reported on 29.85 meters or 10.04 mc. now at 4:30 P.M., by Charles Miller, Covington, Ky. Heard on 14.96 phoning WNC between 6:00 and 7:00 P.M. is reported by Fred Karpen, Johnstown, Pa. The phone HKB on 30.21 meters, 9.93 mc. sent music to PSK one Friday from 8:20 to 9:30 P.M. according to Jimmie Reese, New York City.

Queer report. A letter from Eugenio Quintero, director of station "La Voz de Sincelejo" at Sincelejo, Bolivar, Colombia, to H. S. Bradley of Hamilton, New York, said they were on 42.25 meters, or 7.10 mc., from 6:30 to 8:00 P.M. and sometimes at 4:00 P.M. Next day after the letter

ASTATIC CRYSTAL MICROPHONES AND PICK-UPS

With world-wide reputation for performance and dependability, all Astatic instruments carry a one-year guarantee. D-104 (left), S-type Pickup (center), D-104 HS (right), See your Jobber.





ASTATIC MICROPHONE LAB. INC., YOUNGSTOWN, OHIO "Pioneer Manufacturers of Quality Crystal Devices"

arrived a card arrived with the same information printed in black ink and across the card in red letters are the letters HJ1ABE, the call-sign of the station at Cartagena on 48.98 meters. Both stations must be using the same call-sign, for this card also said HJ1ABE was located at Sinceljo, Colombia.

CENTRAL AMERICANS

TIEP, San Jose, Costa Rica, on 44.71 meters, 6.71 mc., heard much later than schedule testing with other stations. Heard by members Chas. Miller, John WoJtkiewic, Thomas Grey and Bob Everard. They are supposed to sign off at 10:00 P.M. but are heard as late as 1:30 A.M.

TIGP, San Jose. Costa Rica, known as "La Voz de la Victor." Owned by Perry Girton, Box 225. Reported on various wavelengths and at irregular times. Here are the reports: On 46.7 meters from 10:00 to 11:00 P.M.—Dr. R. C. Kash, Sevierville, Tenn. On 46.30 meters at 12:45 A.M.—John Wojtkiewic, Philadelphia. On 46.3 at 11:00 P.M.—Roger Legge, Jr., Binghamton, N. Y. On 6.37 mc., and on 6.40 mc., both at different times—G. C. Gallagher, San Francisco. On 6.40 mc., 9:00 P.M. to Midnight—Fred Karpen, Johnstown, Pa. At 12:30 A.M. once—Bob Everad, Standon. England. On 6.38 mc., between 10:00 and 10:30 P.M.—P. A. Portmann, Woodside, New York.

TIRCC, San Jose, Costa Rica, on 45.81 meters, or 6.55 mc., operated by Amando Cespedes Marin for a Catholic Church in San Jose. It has a powerful harmonic on 13.10 mc. that is sometimes heard better than the original wave. Broadcasts nearly all day Sundays according to John Stewart, Houston, Texas. At 12:15 A.M. once according to F. A. Beane, Ridgewell, England. Heard from 10:30 to 11:30 P.M. once—W. D. Martin, Honolulu, who passed away shortly after this report was received.

HP5J, Panama City, on 31.28 meters or 9.59 mc. Schedule is 7:00 to 10:00 P.M. but heard until 11:00 P.M. according to Sam Solito, Leetsdale, Pa. Heard once at 6:45 P.M. between W3XAU and 2RO according to H. J. Dawison, Bayamon, Puerto Rico. HP5B, Panama City, on 49.75 meters sent a special program one morning at 2:00 A.M. according to Wojtkeiwic, Philadelphia. Neither of the two new Panama stations, HP50, wave not known, and HP5H on 49.40 meters, 6.07 mc., have been heard as yet.

YN1GG, Managua, Nicaragua, on 46.51 meters, 6.45 mc. A letter from Amando Cespedes Marin who built this station says it has closed down and has been moved to Grenada. But Dr. Kash of Seviersville, Tenn., says it is heard, having heard it one Saturday between 10:45 and 11:45 P.M.

HRP1, San Pedro Sula, Honduras, was supposed to be heard by Wilfred Siddle, Birmingham, Aalabama, on 49.67 meters, or 6.04 mc., broadcasting from 7:30 to 7:55 P.M. Can anyone help with this?

TGW and TGX. Although the manager of TGW, Guatemala City says they are not on short waves, this station was heard on 50.00 meters, or 6.00 mc., one Sunday by H. S. Bradley of Hamilton, N. Y. They announced they were on each Sunday from 3:00 to 5:00 A.M. (mornings). Station TGX is now operated by the government according to a letter sent to L. D. Brewer, Phoenix, Arizona. It is on 50.93 meters or 5.89 mc.

XECR, Mexico City, on 40.65 meters or 7.38 mc. Broadcasts Sundays

6:00 to 7:00 P.M. but can sometimes be heard until 8:00 P.M. Reported by many, but John McConomy of Philadelphia, tells us they offer a 375 page book on the history of Mexico to anyone who asks for it. It is free.

THE WEST INDIES

COCD, Havana, Cuba, on 48.92 meters, or 6.13 mc., is heard quite well now and seems to be broadcasting irregularly from 6:00 P.M. to Midnight. It is heard best after 11:00 P.M. The schedule is supposed to be 11:30 A.M. to 4:00 P.M. and 6:00 to Midnight on week-days and Noon to 2:00 P.M. and 8:00 to 10:30 P.M. on Sundays. They use the records "Smoke Gets in Your Eyes" and "The Peanut Vender" as identification songs. We have reports from members W. D. Martin, Aug Balbi, Ernest Orchard, Bob Everard, E. Collins, Al Leonhardt, W. Rosenlund, Sam Solito, F. Wade, J. Wojtkeiwic, Don Teague, F. A. Beane and Max Horlick.

COH, Havana, Cuba, on 31.80 meters or 9.43 mc. Schedule given out is 10:00 A.M. to Noon, 4:00 to 6:30 and 8:00 to 10:00 P.M. Heard until 11:00 P. M. by August Balbi, Los Angeles, California. Heard Noon to 1:30 P.M. by Dr. R. C. Kash, Seivierville, Tenn. From 3:00 to 3:30 P.M. by XDX, Philadelphia and R. B. Nance, East Radford, Va. Also heard at 11:00 P.M.

by E. Orchard, Weymouth, England.

CO9WR, Sancti Spiritus, Cuba, on 25.42 meters, or 11.80 mc. When this station moved to this wave, they just about moved off the air, but Ernest Orchard of Weymouth, England, reports them at 6:17 P.M. once.

New Cubans. A CO2FU on 36.1 meters from 8:20 to 9:00 P.M. is reported by Dr. Kash, of Tennessee. A CO9WCM, Havana, on 11.69 mc. was reported broadcasting between 6:30 and 9:30 P.M. by Max Horlick, Youngstown, Ohio. A CO9JO was on 8.886 mc. between 7:00 and 10:00 P.M. testing according to G. Van Honk, Erie, Pa. They are at Camaguey.

HIZ, Santo Domingo, Dominican Republic, on 47.50 meters, 6.31 mc. is supposed to broadcast daily 5:00 to 6:00 P.M. and Saturday nights at 11:00 P.M. It is reported at 7:00 P.M. by F. A. Beane, Ridgewell, England.

Dr. Kash has a letter from them, but it gives no schedule.

HIIJ, San Pedro de Macoris. D. R. A card says they are on 51.25 meters or 5.86 mc. daily, 6:30 to 9:00 P.M. and 12:30 to 2:00 P.M., which is 6:10 to 8:40 and 12:10 to 1:40 P. M., E.S.T. The address is Box 204.

But they are heard on 51.90 meters or 5.78 mc. instead.

HIH, in the same city as HIIJ is on 44.12 meters or 6.81 mc. Scheduled for 6:40 to 7:40 P.M. daily and 3:00 to 4:00 A.M. and 4:00 to 5:00 P. M. Sundays, but reports differ from that. Heard from 7:38 to 8:13 P.M., saying they were on each Friday at that time, by J. C. Coleman, Brooklyn, N. Y. Heard till 9:00 P.M. by Dr. R. C. Kash. Sevierville, Tenn. Heard at 4:20 A.M. one Sunday by H. S. Bradley and at 3:00 to 4:00 A.M. by L. D. Brewer, Phoenix, Arizona.

HI3C, La Romana, D. R. A letter from the owner, Roberto Palli Bernado, says they are on 43.05 meters from 12 noon to 2:00 P.M. and 6:30 P.M. to 7:30 P.M. This came to George Van Honk, Erie, Pa. Old letters and cards said they were on 43.48 meters, or 6.90 mc. and gave the schedule as 12:30 noon to 2:00 P.M. and 6:30 P.M. to 9:30 P.M. Please

check up on this station, for both wave and time.

HII and HIR. This new phone station is reported by dozens now. James Pickering of Hightstown, New Jersey, says they are not on 19.94 meters, but on 20.06 meters under the call HII and on 29.80 meters, 10.07 mc. with the call HIR. Please check this one for us, too.

VP2KN or M, an amateur station at St. Kitts, B. W. I. is on 21 meters or 14 mc, from 6:00 to 7:00P.M., on 42.00 meters or 7.10 mc. from 8:00 to 11:00 P.M. sending music and working other amateurs. The address is Box 152. This is a new country. Reports have come from members Roger Legge, Jr., Binghamton, N. Y.; Ed Lips, Pitsburgh, Pa.; H. S. Bradley, Hamilton, N. Y.; Bob Everard, Standon, England, and Frank Grey, Berwyn, Ill. A VP4TC an amateur in Barbados on 42 meters was supposed to broadcast sports events from 5:00 to 5:30 P.M. several stimes last month according to Bob Everard.

AFRICA

1RG at Massua, Eritrea, is a new station for Africa. It is on about 20.35 meters or 14.737 mc. and it phones JVH Japan, Mondays, Wednesdays and Fridays from 5:00 to 7:00 A.M. (mornings) but can also be heard at the same time on other days. They use quite a bit of English and sometimes relay a program from Rome. All this comes from Arthur Lunn, Jr., Maplewood, New Jersey. Sam Solito, Leetsdale, Pa., also reports it on 20.39 meters or 14.71 mc. from 5:45 to 6:15 A.M.

Radio Tunis. Carl Cochrane, of West Pittsburgh, Pa., reports a station announcing as "Radio Tunis" near 32.05 meters broadcasting near 6:00 P.M. The Radio Twins of Delaware, Ohio, report a station near the same wave. Fred Karpen of Johnstown, Pa., says ICK, Tripoli, on 31.71 meters, 9.45 mc., was working Italy one Friday at 5:00 P.M., while Alf. Mann of Middlesborough, England, reports them at 1:22 P.M. Members can work this out to suit themselves.

ZTJ, Johannesburg, Africa. A. R. Kuys of Grahamstown, South Africa, sends the schedule as Mondays to Fridays inclusive, 11:45 P.M. to 12:30 A.M., 5:30 A.M. to 7:00 A.M. and 9:00 A.M. to 4:00 P.M. Saturdays till 4:45 P.M. on the last program, and Sundays 8:00 A.M. to 10:15 A.M. and 12:30 P.M. to 3:00 P.M. The second Sundays in the month from 3:30 A.M. to 4:30 A.M. For all this station is heard, we do not think it best to list all these programs. It is reported in Honolulu by W. D. Martin, and in Los Angeles by August Balbi between 11:445 P.M. and 12:30 A.M.

VQ7LO, Nariobi, Kenya Colony. Moved back to 49.50 meters or 6.06 mc. according to W. D. Martin, Hononlulu, and a letter direct from the station. Schedule remains the same according to Robt. Hughes, of England.

Rabat, Africa. We sincerely believe the broadcasts from these two stations have been discontinued and we have taken them from our list. Reports by the hundreds from Africa and Europe bear us out in this.

ZSS, Klipkewval, a phone station, at 5:44 A.M. was heard phoning London and gave their address as Box 962. They gave the wave as 18.89 mc., which is 15.88 meters. This from Frank Grey, Berwyn, Illinois.

OPM, Leopoldsville, Belgian Congo. One letter from this station will give the wave as 29.59 meters and another 29.63 meters. Ed Lips, Pittsburg, Pa., has one of both, and Albert Larkman, London, England, also. This station has been broadcasting a musical program each Saturday from 3:00 P.M. to 4:30 P.M. and we suggest members try for them at this time. Charles Miller, Covington, Ky.; Sam Solito, Leetsdale, Pa., and Frank Grey, Berwyn, Illinois, all report this. It is also reported at 2:00 P.M. one Tuesday by Fred Karpen, Johnstown, Pa., and at 1:40 A.M. (morning) by Wade Chambers, Tulsa, Okla. They were phoning then. OPL on 14.97 meters or 20.04 mc., works ORG. Belgium, daily except Sundays from 11:45 A.M. until Noon according to Art Lunn, Maplewood, New Jersey.

The Egyptian phones are heard quite often phoning Germany, Italy, and England. SUZ on 21.70 meters or 13.83mc., is reported at 4:00 P.M. and 4:50 P.M. We thank members Alden Fowler, Charles Miller, L. D. Brewer, and Thomas Grey.

THE NORTH AMERICANS

Ashley Walcott of San Francisco, sends us news on the following, all above 100 meters in wavelength: A KDK, Wrangell, on 2.538 mc., a KFF, Union Bay, on 2.566 mc., a KIJU, Tod, on 2.986 mc., a KIJB, Cape Pole, on 2.994 mc., a KGQ, location not known, on 2.986 mc., and the ship "Seyelyn (GBG) on 2.738 mc., and "Alaskan" (WLFP) are all heard between 1:00 and 4:00 A.M. Also KLA, Waterfall, on 2.566 mc.; KLD at Hidden Inlet, on 2.56 mc., works W7XK, Seattle, Washington. A letter from W7XK says they work Tuesdays, Thursdays and Saturdays from 1:00 to 2:30 A.M., on 3.492 mc., and they are owned by the Northern Radio Co., Seattle.

WXH, Ketchiken, Alaska, on 5.99 mc., talking to WXT, Fairbanks, is reported by Ken. McKinley, Vancouver, B. C., at 1:00 A.M. WXV Fairbank, is given as the call by Wade Chambers, Tulsa, Okla., who reports them on 34.35 meters at 1:40 A.M., while Delmar Sopher of Steger, Illinois, reports them at 10:00 P.M. WXH was on 2.604 mc., too, according to Mr. Walcott, while A. Antognini of Greenfield, California, reports WVD, Seattle, Washington, on 34.7 meters (instead of 34.68 meters or 8.65 mc.) working WXH at 7:40 P.M.

W4XB, Miami, Florida, on 49.67 meters or 6.04 mc. Reported now between 8:00 P.M. and Midnight by members Carl Foresteiri, August Balbi, W. D. Martin, Sam Solito, Ken McKinley, E. Orchard, Gerald Taylor and Delner Sopher.

W2XE, Wayne, New Jersey. Latest schedule given out is on 19.64 meters or 15.27 mc., from 10:00 A.M. to 5:00 P.M., on 25.36 meters, 11.82 mc., from 5:00 to 7:00 P.M. and on 49.02 meters, 6.12 mc., from 7:00 to 10:00 P.M. We thank members Parrl Honkavaara, Mrs. Irving Heglund, E. Orchard, A. J. Hayward, Jack Watrous, H. J. Davison, Jo:hn Stewart, Gerald Taylor, Stanley Fink, R. B. Nance, L. B. Brewer and Ken McKinley.

W3XAU, Philadelphia, Pa. Schedule is given by George Zehner, Jr., of Philadelphia, as on 31.28 meters or 9.59 mc., from 11:00 A.M. to 6:45 P.M. and on 49.50 meters, or 6.06 mc., from 7:00 to 10:00 P.M. Address is 1622 Chestnut St., Philadelphia. L. D. Brewer, Phoenix, Arizona, says they announced it Noon until 6:45 P.M. instead of 11:00 A.M.

Wixal, Boston, Mass., was on both 25.42 meters or 11.79 mc., and on 19.67 meters or 15.25 mc., last month. Seemed to have no schedule, as it was heard on both waves on different afternoons from 2:30 to 5:30 P.M. broadcasting baseball games, and also on both waves at other times, as early as 10:00 A.M. and as late as 8:00 P.M. They were never on both waves at once, of course. We have reports from members: Sam Solito, J. B. Wooten, R. B. Nance, Max Horlick, Fred Karpen, Don Teague. F. D. Gilliland and Wilfred Siddle.

W3XAL, Bound Brook, New Jersey. Can't seem to get this schedule correct because reports differ. While most everyone reports them on 16.88 meters or 17.78 mc., daily from 8:00 to 10:00 A.M., L. D. Brewer of Phoenix, Arizonia, says it is not on the air on Saturdays and Sundays. He also heard them August 17th at 2:30 P.M. They are also on 49.18 meters or 6.10 mc., Mondays, Wednesdays and Saturdays from 5:00 to 11:00 P.M. according to E. Orchard, Jack Watrous, H. J. Davison, John Stewart.

W2XAD and W2XAF. The station directors send us this schedule W2XAD daily 2:00 to 3:00 P.M. and Sundays 10:30 to 4:00 P.M. W2XAF daily from 5:30 to 11:00 P.M. and Sundays from 4:30 P.M. until Midnight. W. D. Martin and Robert Muncie also send this schedule. W2XAF was also heard by many testing with HJ1ABB around 10:00 P.M. several nights and with VK2ME around 6:00 to 7:00 A.M. This comes from many of our members.

The phone station WKF at Lawrenceville on 19.22 mc. works GAU, England, at 9:30 A.M. until late afternoon according to Art Lunn, Maplewood, New Jersey. This is a new one to us. KIO, Kauhuku, Hawaii, is giving an argument. Some say it is listed on the wrong wave, as it could not be in the broadcast band. Do you know that it has never received a license to use voice. That may be news to many, as the station has been heard for at least four years. We believe we have it listed right on 25.63 meters or 11.71 mc. Was heard broadcasting at 7:45 P.M. once by G. C. Gallagher, San Francisco.

CJRO and CJRX, Winnipeg, Canada. Everyone knows the wavelengths. These stations broadcast from 8:00 P.M. to Midnight and not 7:00 to 11:00 P.M. as we had them listed. This comes from members Max Horlick, L. D. Brewer, Warren Rosenlund, Stanley Fink, who says he heard them at 5:00 P.M. many Sundays.

VE9CA, Calgary, Canada, on 49.67 meters or 6.03 mc. Jack Watrous of San Mateo, California, insists this station is closed down, while G. C. Gallagher of San Francisco, reports it at 1:15 to 1:45 A.M. relaying CFCN. Donald Teague, Santa Paula, California, hears them at the same time, while Ashley Walcott of San Francisco also hears them from Midnight until 1:00 A.M. often. Looks like Mr. Watrous is out-numbered.

VE9GW on 49.22 meters or 6.09 mc. Sending out two different schedules and reported on three. We believe, however, that the true schedule is Thursdays, Fridays, and Saturdays from 7:00 A.M. to 4:00 P.M. and Sundays Noon to 8:00 P.M. This comes from many. Stanley Fink says they broadcast these four days at the same time which is Noon to 8:00 P.M. But members report them coming on the air at 7:00 A.M.

The station CFU mentioned some time ago is owned by the Consoldated Mining and Smelting Company of Canada, Rossland, B. C., according to Dr. R. C. Kash, Sevierville, Tenn., who got a card from them.

ASIA

The Philippines. Here are the reports on this place: A KPR, Manila, on 27.52 meters or 10.90 mc., was working KWV, Dixon, once at 10:30 A.M. according to Art Lunn, Maplewood, New Jersey. A KTR was heard at 2:50 A.M. once saying they were on 10.91 mc., by Ashley Walcott, San Francisco. This must be the same station. A KAY, Manila, on 20.03 meters or 14.98 mc., was working DFB, Germany, at 8:30 A.M. according to J. R. Pickering, Hightstown, New Jersey. Also heard at 7:45 P.M. by G. C. Gallagher, San Francisco. A KTP, Manila, on 36.95 meters or 8.12 mc., is reported between 10:00 and 11:00 A.M. almost daily by Antognini, Greenfield, California. KTO, Manila, on 18.47 meters or 16.24 mc., is reported by many. They seem to be heard 24 hours a day. There are too many reports to mention names.

From the chief engineer of the Kokusai Kenwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo, Japan, comes the following list of telephone stations now in use in Nazaki, Japan. They verify, letters are to be sent to the above address.

```
JVB—15.63 m. (18.19)
                                                 JVC-16.05 m. (18.69)
JVA-15.86 m. (18.91)
JVD-18.91 m. (15.86)
                        JVE-19.15 m. (15.66)
                                                 JVF-19.20 m. (15.62)
                                                 JVI-22.12 m. (13.56)
                        JVH-20.55 m. (14.60)
JVG-20.12 m. (14.91)
                                                 JVL-25.73 m. (11.66)
JVJ-24.44 m. (12.27)
                        JVK-24.96 m. (12.02)
                        JVN-28.14 m. (10.66)
                                                 JVO-28.93 m. (10.37)
JVM-27.93 m. (10.74)
                        JVQ-40.16 m. (7.47)
                                                 JVR-40.60 m. (7.39)
JVP-39.95 m. (7.51)
JVS-42.92 m. ( 6.99)
                                                 JVU-51.81 m. (5.79)
                        JVT-44.44 m. (6.75)
                        JZD-17.74 m. (16.91)
                                                 JZE-23.04 m. (13.02)
JVV—52.56 m. ( 5.73)
                        JZG-47.39 m. (6.33)
                                                 JYT-19.03 m. (15.76)
JZF-35.29 m. ( 8.50)
JYK-22.06 m. (13.60)
                        JYS-30.49 m. (9.84)
                                                 JYR-38.07 m. (7.88)
```

If reports keep on piling in, we will soon have to stop mentioning names in connection with these Japanees stations. Maybe these reports will help others, however. Here they are: James Pickering, Hightstown, N. J.—JVH at 8:00 P.M. W. D. Martin, Honolulu—JVF at 1:00 A.M., JVH at 1:00 P.M. to 5:30 P.M., 2:00 to 5:00 A.M., JVN and JVM from 4:00 to 7:00 A.M. and JVE working Japan at 3:00 A.M. Frank Grey, Berwyn, Illinois—JVM and JVN at 7:00 A.M. Flavio Mascarenhas, Bordeaux, France—JVH from 10:00 A.M. to Noon. Al Leonhardt, Brooklyn—JVM from 6:00 to 7:30 A.M. Charles Miller, Covington, Ky.—JVM relaying JOAK from 4:00 to 7:40 A.M.; JVH at Midnight and 5:00 P.M. James Wotten, Mobile, Ala.—JVM from 6:30 to 8:00 A.M. and JVH at Midnight. H. S. Campbell, Upland, California—JVE working HSJ from 11:30 P.M. to 12:05 A.M.; JVH at 1:00 A.M., 1:45 A.M. and 5:30 P.M. JVM at 1:45 A.M. and 2:00 A.M. JVF at 4:00 P.M. and a JYS on 9.87 mc., at 1:30 A.M. Arthur Lunn, Maplewood, New Jersey—JVM from 5:00 to 8:00 A.M. and JVH working IRG from 5:00 to 7:00 P.M.

Just the Difference Bety

OTOTOTOTOTOTOTOTO

Makes the NEW LINC

Not only the stronger foreign stations can be had with surprising volume with low noise, but the weaker signal is actually heard.

 \overline{AND} added to this

REAL HIGH FIDELITY

with its full register of musical frequencies made possible by the use of a separate intermediate amplifier designed strictly for high fidelity.

The new location of the Lincoln offices is in a section close to the heart c Chicago, one-half block from Michigan Avenue in a D. C. district, where has always been very difficult to get good local reception, but the new LINCOLN SYMPHONIC not only reproduces locals with marvelou fidelity, but European stations are tuned through the terrific interference

- Two stages high gain R. F. for short wave reception.
- Low gain I. F. for noise reduction.
- Two I. F. amplifiers—Selectivity—Fidelity.
- Range 16 to 2000 meters.

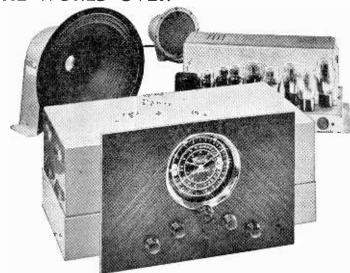
- Large 5¼" diameter aeroplane dial accurately calibrated to all bands Band spread always in calibration with main indicator.
- New independent bass amplifying circuit allowing full register of high notes.
- Beat oscillator for C. W. or station location.
- Marvelous Phonograph reproduction.
- High wattage output with low distortion.
- A truly dual purpose receiver.

LINCOLN RADIO CORPORATION

DEPT. B. 154 EAST ERIE STREET CHICAGO, ILLINOIS, U. S. A.

ween Noise and Signal COLN SYMPHONIC

THE WORLD OVER



THE LINCOLN SYMPHONIC

12-Tube Self-Powered Tuner

8-Tube Self-Powered Amplifier

High and Low Frequency Speakers

| LINCOLN | RADIO | CORPOR | ATION. |
|---------|----------|-------------|----------|
| | | t Erie Stre | |
| CHIC | CAGO, II | LLINOIS | , U.S.A. |

I am interested in purchasing the new LINCOLN SYMPHONIC.

Street.....

wn...... State...

Sam Solito, Leetsdale, Pa.,—JVH at 4:00 P.M. and Midnight; JVM at 1:00 A.M. and 6:00 A.M. A. J. Hayward, Trowbridge, England—JVH at 4:50 and 8:30 A.M. Ed Lips, Pittsburgh, Pa.—JVM at 7:45 A.M. Ashley Walcott, San Francisco, California—JVL, JVO and a station on 10.07 mc., every morning. Al Leonhardt, Brooklyn, N. Y.—JVN at 7:45 A.M. Donald Teague, Santa Paula, California—JVN and JVM at 2:45 A.M. and JVH at 5:10 to 5:40 P.M. G. C. Gallagher, San Francisco, California—JVM and JYS on 9.87 mc., relaying JOAK from 1:40 to 7:00 A.M. and 11:00 P.M. JVH at Midnight. JVF at 3:00 P.M., 4:00 P.M., Midnight and 2:00 A.M. JVE at 10:00 P.M. to Midnight. Fred Karpen, Johnstown, Pa.—JVH at 7:30 A.M.. JVF between 4:00 and 7:00 P.M. and one on 15.00 mc. at 7:00 P.M. Ken McKinley, Vancouver, B. C.—JVM and JVH at 4:35 P.M.. JVH at 4:30 P.M., JVE at 2:00 A.M. and JVH at 4:25 P.M., JVH at 4:30 P.M., JVE at 2:00 A.M., JVF at 4:25 P.M., JVH at 4:30 P.M., JVE at 2:00 A.M. and JVH at 12:30 A.M.

Wilfred Siddle, Birmingham, Ala.—JVH at Midnight. F. A. Beane, Ridgewell, England.—JVH at 7:00 to 9:00 A.M. L. D. Brewer, Phoenix, Arizona.—JVF at 3:00 A.M. and JVF at 3:00 A.M. and JYS on 9.87 mc, withJVM from 3:30 to 5:30 A.M. Lewis Greenman, Conneaut, Ohio.—JVM at 5:00 to 7:40 A.M. J. Wotktewic, Philadelphia, Pa.—JVH at 1:30 A.M. Max Horlick, Youngstown, Ohio.—JVF from 11:45 P.M. to 12:30 A.M. JVH at 2:30 P.M. A. Antognini, Greenfield, California.—JVE at Midnight; JVH at Midnight; JVF at 1:00 A.M.; JVM at 1:15 A.M. and one on about 25.7 meters.

Just about everyone knows that JVH broadcasts a program every night from Midnight to 1:00 A.M. and on Mondays and Thursdays from 4:00 to 5:00 P.M. These are being heard by many. Cards with this news on them and verifying the programs, have been received by members Don Gross and August Balbi. We suggest everyone trying for these programs.

JIA, JIB and JIC. The International Telephone Company of Japan operates these stations at Churcki, Taihoku, each with 10 kw. power. JIA is on 19.06 meters or 15.74 mc. JIB is on 28.49 meters, 10.535 mc. JIC is on 50.93 meters, 5.89 mc. JIB is heard between 5:00 and 8:55 P.M. by members Don Teague, Ashley Walcott, A. Antognini, all of California. Mr. Antognini also hears it at 6:00 P.M. and 10:00 A.M. Mr. Teague hears it at 2:45 A.M. L. D. Beaver heard JIA at 3:30 A.M.

Saigon. A letter to A. Antognini, Greenfield, California, says FSZ on 16.35 meters or 18.35 mc., and FZR on 18.51 m oreters 16.20 mc. work phone at 8:30 A. M. Does anyone ever hear FZR?

HSP, Bangkok, Siam, on 16.92 meters, 17.75 mc. Worked JVE, Japan, on phone at 11:30 P.M., 3:00 A.M. and 4:00 A.M. according to W. D. Martin, Honolulu.

PLP, Bandoeng, Java, on 27.26 meters, 11.00 mc. PMN on 29.25 meters' or 10.26 mc. PLE on 15.93 meters or 18.83 mc. PMC on 16.50 meters or 18.18 mc. PLV on 31.86 meters or 9.42 mc. YDA on 49.02 meters or 6.12 mc. YDA also on 3.04 mc. YDB at Soerabaja on 67.11 meters or 4.47 mc. YDE2, Solo, on 62.37 meters or 4.81 mc. PMA, Bandoeng. on 15.50 meters or 19.35 mc., and PMY, Bandoeng, on 58.30 meters, 5.15 mc. These stations all figure in the Java news this month. PLP, PMN and YDA

have been broadcasting nearly every Sunday, some saying at 5:00 to 7:00 P.M. and others from 10:00 to 10:30 P.M., so we believe it is at both times. Here are some reports: PLP, PMN, YDA and YDB2 and one on 4.81 mc. broadcasting 4:30 to 5:30 A.M.—Ashley Walcott, San Francisco. PMC. PLE and PMA, all broadcasting one Saturday from 6:30 to 8:30 A.M. and PMA, one Wednesday from 8:30 to 9:30 A.M. and one Friday from 7:30 to 8:30 A.M. PLP, one Sunday 6:30 to 8:30 A.M. and PMN on Sunday 6:00 to 7:00 A.M.—All by Fred Karpen, Johnstown, Pa. from 8:45 to 9:05 A.M.-J. Stewart, Houston, Texas. PMC phoning at 1:00 P.M., and broadcasting Sundays from 7:00 to 10:00 A.M. 7:40 P.M., 10:00 P.M. and 1:00 A.M.—G. C. Gallagher, San Francisco, Pa. PMN at 9:10 A.M. Sunday-Don Teague, Santa Paula. Calif. with "It's Time to Say Goodnight" at 10:30 A.M.—Gerald Taylor, Oxford, England. YDE2, PMY, YDA and YDB, all heard from 6:00 to 8:45 A.M. by W. D. Martin, Honolulu. PLV from 11:00 to 11:15 A.M.—Charles Miller, Covington, Ky. PLV from 10:00 to 10:30 A.M.-Jack Watrous, San Mateo, California.

August Balbi, Los Angeles, reports PLP from 5:30 to 9:30 A.M. Arthur Lunn, Maplewood, N. J., reports the same and also reports PLE broadcasting every Tuesday, Thursday and Saturday from 10:00 to 10:30 and PMA phoning at 10:00 A.M. F. A. Beane, Ridgewell, England, reports PLE broadcasting Tuesdays, Thursdays and Saturdays 10:00 A.M. to Noon, as also does Bob Everad, Standon, England.; A. D. Taylor, Heswell, England. PLP is reported by J. B. Wooten, Mobile. Ala.; G. Van Honk, Erie, Pa.; Frank Grey, Berwyn, Illinois; Lewis R. Greenman, Conneaut, Ohio. James Pickering, Hightstown, N. J. Ed Lips, Pittsburg, Charles Miller, Covington, Ky. PLE phoning at 7:30 A.M. comes from Wade Chambers, Tulsa, Okla. PMA on one Sunday 8:00 to 10:00 A.M. comes from H. S. Bradley, Hamilton, N. Y. L. D. Brewer, Phoenix, Arizona, reports PLV and PMA at 5:00 A.M. PMY at 5:00 to 7:00 A.M. YDA, YDL2, daily from 6:00 to 8:00 A.M. and YDB at 8:25 A.M. Antognini of Greenfield, California, reports PLE at 7:45 P.M. PLP at 10:00 A.M. PLV at 9:45 A.M. PMN and PLP at 10:00 A.M. P. A. Portmann, Woodside, N. Y., reports PLE at 9:50 to 10:30 A.M. and PLP from 6:00 to 6:30 A.M. Summing up this report we suggest members try for most any of these stations any morning between 6:00 and 10:00 A.M.

ZLR, Wellington, New Zealand. on 40.60 meters or 7.39 mc. Reported working London but VLK carried the call. The time was 2:30 A.M.—W. D. Martin, Honolulu. A letter says ZLT is on 11.050 mc. and address is Post & Telegraph Dept., G. P. O., Wellington, C1, New Zealand. This is from Robert Hughes, Trowbridge, England.

Colombo. A station in Colombo, Ceylon, is on 48.7 meters, or 6.16 mc., testing nearly every morning. Their address is Broadcasting Office, Torrington Square, Colombo, Ceylon. We do not believe it is heard at any distance. This is from Sgt. H. J. Dent, Bombay, India.

VPD, Suva, Fiji Islands, on 22.95 meters, or 13.07 mc. Can be heard daily excepting Sundays from 12:30 to 1:30 A.M. It is reported by dozens this month.

ZBW, Hong Kong, China, on 34.294 meters or 8.75 mc. The address

is Box 200. It is not regular in operation but schedule is shown on our station list. It was reported heard this month only between 7:00 and 10:00 A.M., by Don Teague, Santa Paula, California; G. C. Gallagher, San Francisco, California; A. Antognini, Greenfield, California, and Shokichi Yoshimura, Moji, Japan. Jack Watrous and L. D. Brewer report they received verifications.

Hanoi, Cochin-China, on 32.1 meters or 9.37 mc. A letter from the Chef du ReseauNord, Service Radiotelegraphique at Hanoi says they are on this wave but do not broadcast regularly—John B. Keenan, Sydney,

Australia.

VUB, Bombay, India, on 31.36 meters or 9.57 mc. May have changed schedule as they are heard Tuesdays, Thursdays and Saturdays from 11:00 A.M. to Noon instead of Wednesdays and Saturdays from 11:30

A.M. to 12:30 Noon—W. D. Martin, Honolulu.

VWY, Poona, India, on 17.10 meters or 17.54 mc. Letter says they call London daily 8:00 A.M. and if no calls are ready, close right down. This is from Emmett Riggle, Massillon, Ohio. Reported at that time by Fred Karpen, Johnstown, Pa., and 7:30 A.M. by Frank Grey, Berwyn. Ill.

XGR, Shanghia, China. Heard near 26.00 meters or 11.52 mc. playing one record and calling Manila at 6:00 A.M.—Fred Karpen, Johnstown.

AUSTRALIA

VJ1, Cloncurry, on 34.76 meters or 8.63 mc. There really is such a station. It is owned by Inland Mission, and sends messages to isolated branches. The power is generated by the operator who pedals away with his feet while talking into the mike. It is rated about 3 or 4 watts power.

This comes from John B. Keenan, Sydney, Australia.

VIZ3, Fiskville, Victoria, on 25.95 meters or 11.56 mc. Several members have verifications from this station now. The wavelength given is correct, although many do not agree. They are working station CJA4, Canada, and have been heard during the past month at 10:00 P.M., 1:00 A.M., 3:00 A.M. and 8:00 A.M. The verifications come from Wireless House, 47 York St., Sydney, N. S. W., Australia. Ed Lips, Pittsburg, Pa.; Frank Grey, Berwyn, Ill.; H. S. Bradley, Hamilton, N. Y.; J. R. McAllister, Struthers, Ohio; Wade Chambers, Tulsa, Okla., all have one. The station is reported by P. Portmann, A. Antognini, Stanley Fink, L. D. Brewer, J. B. Wooten, Ashley Walcott, W. E. Doty, H. S. Campbell, W. D. Martin, Sam Solito, Ed Lips, Don Teague, Bob Everard, Fred Karpen.

VLK-VK2ME, Sydney, on 28.50 meters, 10.52 mc., has been testing with W2XAF, New York, many mornings between 6:00 and 7:00 A.M. and are reported by W. D. Martin, J. B. Wooten, Fred Karpen, Van Honk, Frank

Grey, Ashley Walcott, L. D. Brewer, XDX.

VK2ME, Sydney, on 31.28 meters, 9.59 mc. Schedule for September is Sundays 12:30 to 2:30 A.M.; 4:30 to 8:30 A.M. and 9:30 to 11:30 A.M. This from L. L. Alexander, Mapperly, England; O. Amlie, Philadelphia, Pa.; Robert Hughes, Trowbridge, England; J. S. Collingswood, March, Eng.

VK3ZX, Caulfield, Victoria, on 41.60 meters, 7:30 mc., is an amateur station, but broadcasts Sundays 1:30 to 3:00 A.M. A letter to Sgt. H. J.

Dent of Bombay, India, says this and W. D. Martin, Honolulu, reports reception. The address is 33 Saturn Street.

VK3ME, Melbourne, on 31.55 meters or 9.51 mc. We are almost certain this station is now on the air every day excepting Sunday from 5:00 to 7:00 A.M., although some insist it is not. Those who say it is are Oliver Amlie, Philadelphia, Pa.; Robert Hughes, Trowbridge, England, and Ashley Walcott, San Francisco, and those who say it is Wednesdays, Thursdays, Fridays and Saturdays only are J. B. Wooten and Joseph B. Sessions. Reported once at 2:30 A.M. by J. Wojtkeiwic, but it may have been VK3LR he heard.

VK3LR, Melbourne, on 31.31 meters or 9.58 mc. This station is supposed to broadcast daily from 3:15 to 7:30 A.M., but Oliver Amlie, Philadelphia, tells us this has been changed to 5:00 A.M. to 9:30 A.M., and several others report it from 11:00 P.M. until 7:30 A.M. They relay a football game every Friday starting at 11:00 P.M. We have reports from H. S. Campbell, G. C. Gallagher, Don Teague, Robert Hughes.

VK4FB, Bisbane, on 42 meters, 7.208 mc. Sending music Sundays

3:00 to 3:30 A.M.-W. D. Martin, Honolulu.

THE EUROPEANS

CT1AA, Lisbon, Portugal, on 31.25 meters, 9.59 mc. Schedule now is Tuesdays, Thursdays and Saturdays from 3:30 to 6:00 P.M., but will move back to 4:30 to 7:00 P.M. next October. This from Ch Guilbert, Deuville, France. Has moved to 31.16 meters, 9.63 mc., according to XDX of Philadelphia. On 9.60 mc., according to Max Horlick, Youngstown, O.

New Station. Flavio Mascarenhas of Bordeaux, France, reports a station on 51.79 meters or 5.79 mc., which was heard testing. A letter from them says they do not yet have a license, but will soon have one and will broadcast regularly. The station is "Invicta Radio, Lda" at 304 Rua Santa Catharina 308, Porto, Portugal.

CT1GO, Parede, Portugal. Last month a member reported a card from this station giving the wave as 25.21 meters. Donald Gross, West Asheville, North Carolina, has one this month giving the same schedule and wave as before. They are on 24.20 meters, 12.40 mc., on Tuesdays, Thursdays and Fridays from 1:00 to 2:15 P.M. and Sundays from 10:00 to 11:30 A.M. Also on 48.40 meters, 6.20 mc. daily excepting Saturday and Monday from 7:20 to 8:30 P.M. and Sundays from 11:30 A.M. to 1:00 P.M.

CSL, Lisbon, Portugal, on 48.77 meters, 6.15 mc., is still on the air. Sam Solito of Leetsdale, Pa., says the schedule is 7:14 A.M. to 2:14 P.M. daily, but the station is heard until 7:00 P.M. by others.

E. Orchard, Weymouth, England, reports some strange Portuguese stations. One on 24.83 meters and 31.00 meters was heard Sundays from 6:00 to 8:00 A.M., and they said they were on the air Sundays only from 6:00 to 8:00 A.M. on 31.00 meters and from 8:00 to 10:00 A.M. on 24.83.

Pontoise, France. Several members insist that the stations at Pontoise are not on the waves listed. Maybe so, but these waves given are sent out by the station operators. We believe everyone knows the schedule.

Ch Guilbert, Technical Editor of "Radio Magazine" of Deuville, France, tells us that the ship "Normandie" (FNSK) works on 67.70 meters, 4.43 mc.; 65.75 meters, 4.56 mc.; 34.00 meters, 8.82 mc., and 22.72 meters, 13.21 mc., and a station at Coignieres, near Paris works on 71.00 meters, 4.23 mc.; 33.19 meters, 9.04 mc.; 24.56 meters, 12.22 mc., and 24.35 meters, 12.32 mc. The Normandie also works GBC, England, and WOO, N. J. Flavio Mascarenhas, of Bordeaux, France, says the call is FJL and this station also works Algeria on 32.48 meters at times. This station was heard on 24.56 meters in the afternoons by Charles Miller, Covington, Ky., and L. Papernow, Brooklyn.

A station TYA, Paris, on 12.215 mc., is reported calling "Maudray" or Madrid once at 5:00 A.M. and several times at 8:00 A.M. by H. S. Bradley, Hamilton, N. Y. FTK, St. Assise, on 18.89 meters or 15.88 mc., is reported as late as 11:30 A.M. phoning Saigon by Art Lunn, Maplewood, N. J., and

at 10:45 P.M. by Thomas Grey, Berwyn, Illinois.

PCJ, Eindhoven, Holland, on 19.71 meters, 15.22 mc., is heard Tuesdays from 3:00 to 6:00 A.M. and Wednesdays from 7:00 to 11:00 A.M. and on several other days of the week between 7:30 and 10:30 A.M. PHI, Huizen, Holland, on 16.88 meters, 17.77 mc., broadcasts Mondays, Thursdays and Fridays from 7:30 to 9:30 A.M. and Saturdays and Sundays 7:30 to 10:30 A.M. acording to XDX, Philadelphia. This station may go back on 25 meters the last of this month.

The schedule for September from Daventry follows:

1:15 P.M. to 3:15 A.M.—GSD on 25.53 (11.75) and GSB on 31.55 (9.51)

6:00 A.M. to 8:45 A.M.—GSG on 16.86 (17.79) and GSJ on 13.93 (21.53) 9:00 A.M. to 12:00 noon—GSG on 16.86 (17.79) and GSF on 19.82 (15.14) 12:15 P.M. to 4:00 P.M.—GSD on 25.53 (11.76) and GSB on 31.55 (9.51)

12:15 P.M. to 2:15 P.M.—GSI on 19.66 (15.26) Experimental.

2:30 P.M. to 4:00 P.M.—GSL on 49.10 (6.11) Experimental. 4:15 P.M. to 5:45 P.M.—GSF on 19.82 (15.14) and GSB on 31.55 (9.51)

6:00 P.M. to 8:00 P.M.—GSD on 25.53 (11.75) and GSC on 31.32 (9.58) 10:00 P.M. to 11:00 P.M.—GSD on 25.53 (11.75) and GSC on 31.32 (9.58)

GSJ went on the air last month on 13.93 meters or 21.53 mc., from 6:00 to 8:45 A.M. This was reported by Art Lunn, Maplewood, N. J.; Fred Karpen, Johnstown, P.; Stanley Fink, Detroit, Michigan, and Max Horlick, Youngstown, Ohio.

G2NM, Sonning-on-Thames, on 20.95 meters or 14.32 mc., and owned by our old friend Gerald Marcuse broadcasts Sundays from 10:30 A.M. to 12:30 Noon according to H. S. Campbell, Upland, California. A new phone GAQ on 18.87 mc. phones the USA in daytime according to Arthur Lunn, Maplewood, N. J. Another phone with the call GBA or GBX on 16.175 mc., works New York between 7:00 and 9:00 A.M. according to Fred Karpen, Johnstown, Pa.

TFJ, Iceland, Located at Reykjavik, on 24.52 meters or 12.24 mc. Phones GBC, England, at the half hour, like 9:30 A.M., 10:00 A.M., etc. Heard at 11:00 A.M. by A. D. Taylor, Heswell, England. At 5:10 A.M. by H. S. Bradley, Hamilton, N. Y. At 6:07 A.M. by H. Frost, Bronxville, N. Y. Can be heard around 6:00 A.M. often. It is on 24.32 meters and 33.11 meters with 7000 watts power according to F. A. Beane, Ridgewell. England, who reports them at 8:15 A.M. and 5:00 P.M.

ORK, Brussells, Belgium, on 29.04 meters or 10.33 mc., can be heard broadcasting now from 1:30 to 3:00 P.M. Reported by many this month.

Also heard at 9:15 P.M. once according to Arthur Lunn.

OER2, Vienna, Austria, on 49.42 meters, 6.07 mc. Cards from this station say they broadcast daily excepting Sundays from 9:00 A.M. to 5:00 P.M. and Saturdays until 6:00 P.M. and do not say anything about programs late at night. We have seen such cards received by Mario Cassina, N. Y.; Sam Solito, Leetsdale, Pa., and neither said anything about the late programs.

The program schedule sent us from Zeesen this month follows:

12:30 A.M. to 2:15 A.M.—DJN on 31.45 (9.54) and DJA on 31.38 (9.57) 3:45 A.M. to 7:15 A.M.—DJB on 19.74 (15.20) and DJN on 31.45 (9.54) 8:00 A.M. to 11:30 A.M.—DJB on 19.74 (15.20) and DJQ on 19.63 (15.28)

DJE on 16.89 (17.76) and DJA on 31.38 (9.57).

12:00 Noon to 4:30 P.M.—DJD on 25.49 (11.77) and DJC on 49.83 (6.02)

5:05 P.M. to 9:15 P.M.—DJA on 31.38 meters (9.57 mc.)

5:05 P.M. to 10:30 P.M.—DJN on 31.45 (9.54) and DJD on 25.49 (11.77)

9:30 P.M. to 10:30 P.M.—DJC on 49.83 meters (6.02 mc.)

Write For Bulletin HL



AMPERITE (ompany 561 BROADWAY

However, station DJB has been heard in place of DJD from noon to 4:30 P.M. almost all this month. R. B. Nance, East Radford, Va.; Max Horlick, Youngstown, Ohio, and J. G. Schlaffer of Sedalia, Mo., all tell us this.

A DFR on 19.20 meters or 15.62 mc., was used with DJB to send several special programs to the U. S. A. last month. But some of the members disagree on the exact wave and we have not put it on our list These programs usually as vet. come over between 1:45 and 3:00 P. M. Fred Karpen, Geo. Van Honk. N. G. McCroden, XDX, Donald Teague and P. A. Portman reported this station.

The English broadcasts Russia. from Russia this month will come over on 25.00 meters or 12.00 mc., each Wednesday at 6:00 A.M., Sunday at 6:00 A.M., 10:00 A.M. and 4:00 P. M.; Mondays, Wednesdays and Fridays at 4:00 P.M. comes direct from the station. Reports on all Russian stations should now he sent to Comite de Radiodiffusion et Radiofication, Petrovka 12, Moscow.

A German ship-to-shore phone on 16.52 meters, 18.15 mc., was heard at 11:30 A.M. by James Pickering, Highstown, N. J. DIQ on 29.15 meters, 10.29 mc., was broadcasting between 5 and 6 P.M. when heard by H. J. Davison, Bayamon, P. R., and between 5:00 and 6:00 P.M. when heard by Cyril Gilmour, Kingston, Ont. DJN was used once from 5:00 to 10:00 P.M. along with DJA and DJD according to Mr. Davison. DFC, Nauen, on 23.11 meters or 12.98 mc., was broadcasting between 5:00 and 5:30 P.M. once according to H. S. Bradley, Hamilton, N. Y. A. D. Taylor of Heswell, England, sends a report we do not understand. He says DJN and DJQ will be heard every Wednesday from 1:30 to 4:00 P.M. now on.

2RO, Rome, Italy. This station seems to be on an irregular schedule, but the latest one sent by Sam Solito of Leetsdale, Pa., seems to fit in now. It is on 25.40 meters, 11.81 mc., from 8:15 to 10:15 A.M.; Noon to 1:00 P.M. and 1:45 to 2:30 P.M. and on 31.13 meters or 9.63 mc., from 2:30 to 5:00 P.M. daily and Mondays, Wednesdays and Fridays 6:00 to 9:00 P.M. Many members have cards giving a different schedule than this but this is probably right. We thank Al Leonhardt and George Van Honk, too.

IAC, Coltana Radio, Piza, Italy, on 16.95 meters, not 16.89 meters, one Sunday at 11:30 A.M.—Charles Miller, Covington, Ky. On 16.92 meters once at Noon working ships—J. Pickering, Highstown, N. J. On 23.45 meters, or 12.80 mc., working Tripoli at 1:38 P.M.--R. D. Everard, Standon, England.

IRJ, Rome, Italy. A card says they are on 20.37 meters, 14.73 mc. This was received by R. D. Everard, Standon, England. Heard working JVH, Japan, at 6:00 A.M. by H. Frost, Bronxville, N. Y.

An IGA or IQA, Rome, on 14.735 mc., was working JVH at 5:30 A.M. according to H. S. Bradley, Hamilton, N. Y., while James Pickering of Highstown, N. J., says IQA on 22.35 meters was heard at 5:20 A.M. A station on 12.00 mc., at 6:00 P.M. is reported by Fred Karpen, Johnstown, Pa. On 25.08 meters, 11.96 mc., at 4:45 P.M. is reported by Arthur Lunn, Maplewood. N. J. An IDD or IDX (uses both calls) on 25.02 meters of 11.99 mc., is working Italian ships according to XDX, Philadelphia, Pa.

HB9B, Radio Club Basle, Postpack 1, Basle, Switzerland, on 42.14 meters. 7.12 mc., broadcasts Mondays, Thursdays and Fridays from 4:00 to 6:00 P.M. according to word from F. A. Beane, Ridgewell, England.

Stations HBH on 16.22 meters or 18.48 mc., and HBJ on 20.60 meters or 14.56 mc., have sent a special program to the U.S.A. for rebroadcasting just about every Sunday in the last two months. These programs take place usually between 10:30 and 11:00 A.M., but the stations are heard before and after that. Once they were on from 4:30 to 5:30 P.M. WQP, Rocky Point usually works them. Fred Karpen, Johnstown, Pa., says the operator gives the waves as 16.25 meters for HBH and 20.64 meters for HBJ. Reports have come from members Abe Federing, Ernest Eckel, Dr. R. C. Kash, P. A. Portmann, G. Van Honk. Dellner Sopher, XDX, L. Papernow, J. Wotjkiewic, J. R. Miller, Arthur Lunn, Jimmie Reese, George Zehner, J. B. Wooten, M. Van Bergen, H. J. Davison, Dan Teague, Chas. Miller, H. Frost, Cyril Gilmour, Bernard Dahl, Sam Solito and A. Hayward.

GOOD NEWS! PRICES REDUCED on LYNCH NOISE REDUCING ANTENNA SYSTEMS!!!!

NOW!! ASSEMBLED LYNCH ANTENNAE at \$4.05 and up.

HI-FI COMPLETE SYSTEMS, READY-TO-HANG, NO LABOR ON YOUR PART NECESSARY BUT TO ATTACH TO YOUR MASTS

TWO EXTRA SPECIALS on Hi-Fi Duplex (Doublet) Systems: Lynch Junior, 41 ft. single wire flat top, with 50 ft. of twisted pair lead-in, List \$6.75, your net price.....

With 100 ft. twisted pair lead-in, list \$8.25, your price \$4.95.

Lynch Senior, same as Junior but with 50 ft. GIANT KILLER CABLE, list \$8.50, your net price.....

\$5.10

With 100 ft. GIANT KILLER CABLE, list \$11.50, your net price \$6.90.

No. 896, as illustra-ted with 78 ft. flat top, Hi-Fi Antenna Coupler and receiver vario-coupler 6 navy type insulators, 50 ft. GIANT KILLER CABLE lead-in and

double lightning arrester, nail-it knobs, screw-eye, and lead-in tube, List \$15.50, Your net cost

\$9.25

No. 897 Hi-Fi Sim-plex (inverted L) 78 ft. flat top with 50 tt. Giant Killer cable lead-in. Complete with new Hi-Fi receiver coupler and double light-

ning arrester, screweye, nail-it knobs and lead-in tube. List Price....\$12.00 Your net cost

\$7.20

Cage Antenna Systems for Limited Space Location



lers and double lightning arrester, screweye, nail-it knobs and lead-in tube. List Price...\$23.00 Your net cost

\$13.75

No. 887 Hi-Fi Simplex (inverted L) 41 it. cage with 50 ft. Giant Killer cable lead-in.

Complete with new Hi-Fi receiver coupler and double lightning arrester, screweye, nail-it kn nail-it knobs List Price...\$19.50 Your net cost

\$11.75

LYNCH FILTERADIO LINE BALANCER (Filter), list \$5.00, your net price \$3.00.

LYNCH ANTENNA SUPPLIES—HI-FI Couplers. Kits and Giant Killer Cable

| List Price Net Price |
|--|
| \$3.00 Giant Killer Cable, 50 feet\$1.80 |
| \$1.00 Light Hi-Mho Wire, 100 feet60 |
| \$1.50 Heavy Hi-Mho Wire, 100 feet90 |
| \$6.75 HI-FI Duplex Antenna Coupling Kit, |
| of antenna coupler, receiver Vario-coupler |
| and 50 ft. of Giant Killer cable\$4.05 |

| ouplers, kits and Glant Killei | Cable |
|-------------------------------------|-----------|
| List Price N | let Price |
| \$3,50 Hi-Fi Antenna Coupler | \$2.10 |
| \$2.50 Hi-Fi Receiver Vario-Coupler | 1.50 |
| \$2.75 Kit 10 Cage Spreaders | 1.65 |
| \$1.25 Kit 8 Commercial Insulators | |
| \$2.00 Kit 8 Navy Type Insulators | |
| \$1.25 Double Lightning Arrester | |

CONSULTING ENGINEER ON ANTENNA PROBLEMS TO LYNCHIS ADVISOR OF NEW YORK CHAPTER OF THE CLUB ~

227 FULTON STREET, NEW YORK, N. Y.

Phone, Cortland 7-7843

Russian Phones. RKI on 19.94 meters, 15.04 mc.; RIM on 19.68 meters or 15.25 mc.; RIZ on 20.29 meters or 14.79 mc.; RIO on 29.50 meters or 10.17 mc., and RKR on 23.36 meters or 12.84 mc., are all reported. RKR working RKI at 5:15 to 5:45 A.M. is reported by Shokichi Yoshimura, Moji, Japan. He also reports RIO at 8:15 to 9:00 A.M. RIZ, which issupposed to be at Irkutsk, Siberia, was heard broadcasting music from 8:00 to 11:00 P.M. by Fred Karpen, Johnstown, Pa. RIM. Tashkent, is heard from 6:00 to 10:30 and 11:00 P.M. by Art Lunn, Maplewood, N. J., who reports them best at 6:00 to 6:30 A.M. They are also reported between 6:00 and 8:30 A.M. by Fred Karpen, Johnstown, Pa., and Charles Miller, Covington, Ky. RNE is heard up until 5:45 and 6:00 P.M. by Jimmie Reese. New York.

HAS-3 and HAT-4, Budapest, Hungary. HAS-3 is on 19.52 meters or 15.37 mc., Sundays from 9:00 to 10:00 A.M. and HAT-4 is on 32.88 meters or 9.12 mc., from 6:00 to 7:00 P.M. Sundays. These are both being heard pretty good now and we have many reports.

Special Stations. Ashley Walcott of San Francisco, sends us a lot of "dope" about stations heard above 100 meters that may interest many. He reports stations at Point Benita and Arena Cove on 2.69 mc. at 8:30 P.M. Forestry station KBA in Oregon, KBC in California around11:30 P. M., and KBCJ Sacramento at 11:30 A.M. and 11:30 P.M. The National Parks of the U.S.A. have some stations using voice, too. KNKG, Ash Mountain; KNLP (location unknown); KNLQ, Trona; KNHK and one at General Grant Park are heard near 10:30 A.M. and 12:30 noon, near 3.41 mc. KNKS Yosemite, KNXX Dear Camp, KNKY Devils Post Pile and a KNU of unknown location are all on 2.60 mc. at 11:30 A.M. and 8:30 P.M. Some Canadians an 4.50 mc. are VDB Two Brothers Lake, VDC Calgary, and VDW.. They are heard at 1:00 A.M. and 2:15 A.M.

WWV, Washington, D.C. This station operates each Tuesday and Friday on 15.00 mc., noon to 1:00 P.M., on 10.00 mc. 1:15 to 2:15 P.M. and on 6.00 mc., 2:30 to 3:30 P.M. They send out a constant signal not voice, which short wave fans can use to check up their receivers on. This is from Theo. St. John Porcher, Philadelphia, and Frank Grey, Berwyn, Ill

LAST MINUTE REPORTS

Ch. Guilbert. Deauville, France, has a letter from Rabat, Morocco, saying that the broadcasts from these stations have long since been discontinued due to economic pressure. So, we were right for once. CNR is used to phone Paris, 5:00 to 8:00 A.M. with distorted modulation.

E. Scala, Long Beach, N. Y., reports a card from ZBW, giving the schedule as 11:30 P.M. to 1:15 A.M. and 4:00 A.M. to 10:00 A.M. Roy Myers, Beverly Hills, Calif., reports YDB, PMY, RV15, all heard between 7:00 and 9:30 A.M., with RV15 having harmonic on '8.50 mc. He also reports ZHI 8:00 A.M.. ZHJ 8:00 to 8:30 A.M., YV10RSC at midnight and WXE Alaska, at 1:00 A.M. on 5:995 mc.

J. Porter, Sydney, Australia, says VIZ-3 and VIY both at Fiskville. The place was once called Ballan but was changed. Two stations VHZ2 and VHZ3 on 70 and 85 meters are heard from 2:00 to 4:00 A.M. A Rus-

sian on 24.41 meters was working RNE at 9:25 A.M. IRQ Massau, was heard at 1:30 A.M. and a letter was received from the station at Hanoi on 32.1 meters which gives the same news as we printed in another place. He heard them at 9:30 A.M. Dellner Sopher sends the schedule of W4XB as noon to 2:00 P.M. and 5:30 P.M. to midnight.

E. Orchard of Weymouth, England, sends us the latest schedule from VQ7LO Africa, which does not mention the programs heard from 11:45 to 12:30 A.M. at all. COCD war heard at 3:00 A.M. with a special program. PRF5 changed schedule and W4XB was heard at 7:30 P.M.

SENDING IN REPORTS

We have been asked many times to tell members how we would like to see reports made out. Now, we have never objected to work, and we really appreciate every report sent to us, no matter how hard it is on us to pick out the news. But, since we have been asked to tell how we like to receive reports, we will gladly do it. You do not have to live up to these suggestions unless you wish.

Many members sit down and write up a report on every station they hear during the month. This means checking and rechecking by the hour. We have received letters with 500 and more programs reported. We have also received many letters with comments on many things, and a few about reception. We once received a 36-page letter from one member. Now, it is hard for us to pick up the news from such letters, we must admit. Others sit down and write us about every station they believe they heard, whether they did or not. They tell about a station being one minute early on the air and one fraction of a meter off on their Some never mention anything but the call letters, and in some cases this makes it hard on us as many call letters are alike.

The ideal report is made out this way: List all reports in continents. like all stations in Asia go under Asia, all from Africa under Africa. Makea paragraph of each station. Give the call sign, city, country, wavelength or frequency and then the news. Tell us where the news value is, such as a new station, a new wavelength being used, a new schedule or a new address or some such thing. In other words, tell us how it differs from our station list. And do not hold off reports till the last day. Reports received early in the month will get greater attention. And your comments and personal effairs are always interesting and welcome, just as long as they are not written in with the news. Keep these things in another part of your letter.

SHORT WAVE SUPPLIES

The International Short Wave Club has for sale a number of useful articles which are intended for short wave fans. It is common knowledge that certain manufacturers offer a very generous discount to members of the organization and that certain stations verify much more rapidly when they know the writer of a report is an I.S.W.C. member. The number of stations that offered to broadcast FREE programs for the I.S.W.C. in October will point out just how much the name of this organization means to them. In order to show these manufacturers and these station manager that you are a member of the Club, we have arranged to purchase or print a number of items which we offer to listeners at a very reasonable price. In buying and using these articles, the member is not only helping the I. S. W. C., but themselves as well.

Club stationery, full sized writing paper, with the club emblem printed on it. Without a lot of extra addresses, too, that confuse the station owners, such as many radio clubs have. For sale at 50c per hundred,

postpaid.

Club Seals. The club emblem printed on glued paper, blue ink on white paper. Can be used on your stationery or on the envelope. For sale at 30c per hundred, postpaid.

Helps and Hints. A sixteen page booklet crammed full of such things as station addresses,, tuning tips, how to write in English, German, Italian, and Spanish language, a time chart of the world and other things.

Only 5c a copy.

Lapel Buttons. The Club emblem on a button, blue outline on gold. A real attractive button, which will identify you with any other I.S.W.C. member you may chance to meet. For sale at 25c, postage paid.

HEARD-ALL CONTINENTS CLUB

Here are the latest addition and changes in this exclusive organization. Moved to Class 8-A, or eight verifications from each continent—H. S. Bradley, Hamilton, N. Y. Class 7-A or seven verifications—Ed. Lips, Pittsburgh, Pa., and J. R. McAllister, Struthers, Ohio. Two—A class—Kenneth Albrecht, Hartford, Conn. Class A—A.Stanley Elphring, Baltimore, Md.; Lewis R. Greenman, Conneaut, Ohio; R. B. Law, Toronto, Ontario; R. O. Glovigen, Oslo, Norway; H. Beadle, Keighley, Yorks, England, and E. Orchard, Weymouth, England. This list includes only those that have been added or changed since the last list was published.

PEN-PALS

The following members would like to correspond with others: Eric Butcher, Cokeville, Wyoming (Scott).

W. Jasiorkowski, 964 W. Manitoba St., Milwaukee, Wis. (fereign).

Robt. Woods, 15 West Broadway, Oklahoma City, Okl. (Burma, Siam).

F. M. Murphy, 615 Franklin Street, Palestine, Illinois.

J. Wojtkiewic, 639 St. David St., Manayunk. Philadelphia, Pa.

E. B. Murphy, 639 Lindsay Terrace, Greensboro, North Carolina.

Worren Rosenlund, 147 Vovell Street, Worcester. Mass.

C. P. Upchurch, 411 Hyde Park Avenue, Durham, North Carolina.

F. A. Beane, Post Office, Ridgewell, Essex, England (Exchange photo). Ralph Zaenglein, Box D, Botkins, Ohio.

SEND POSTAGE PLEASE

Members writing for information should send a self-addressed stamped envelope or card. It takes too much time to look up addresses and too much postage to answer hundreds of questions each month.

BEST STATIONS AND HOURLY GUIDE

| | | | | | | l | | | Ą | ż | | | ĺ | r | l | I | ۱ | | بَم | ¥ | ļ | Ì | ı | ٢ |
|--------|-----------------|----------------------------|---------------|-----------|----------|-----|----|----------|-----|------------|------------|-----|-----|-----|-----|------------|----|----------|----------|-------------|--------------|------|-----|------------|
| Meg. | Meters | Station | Country | Day | | 1 2 | 60 | 4 5 | 9 | ~ | 8 | 10 | 1 | Z | H | 23 | 4 | 9 | 9 | 00 | 6 | 97 | 11 | × |
| Write | Local | Local Time Here. | | | | | | | | | | | | | | | | | | i | | | | |
| 17.79. | 16.86—(| GSG | .England | Daily | : | : | • | | 9 | 2 | 6 | 10 | 202 | | : | ١. | ١. | : | ١. | ١. | | : ا | : | : |
| 7.78 | 16.87 | W3XAL | U. S. A | See List | ist | | ٠ | | | ∞. | 6 | 702 | : | | | • | | : | • | | | | • | : |
| 7.77 | 16.88—I | PHI | Holland | Irreg. | : | | | | | 00 128- | 6 | 70 | : | | | • | • | | • | • | | : | : | : |
| 15.34 | 19.56 | W2XAD | U. S. A | Daily | : | | • | | • | | • | : | : | | • | 80 | | | • | • | | | | |
| 15.27 | | W2XE | U. S. A | Daily | | • | • | | | | • | 10 | 11 | z | 2 | က | 4 | | • | • | | : : | : : | |
| 15.25 | -89.61 | : | France | Daily | : | | • | | 9 | 20 | 6 | 80 | : | | | • | • | | | | | : : | : : | |
| 15.22 | - 1 | PCJ | Holland | Irreg. | | | | | | œ. | 6 | 10 | * | | | • | • | | • | | | | | : : |
| 15.21 | $1972 - \nabla$ | W8XK | u. s. A | Daily | : | | • | | | | • | 120 | 11 | z | 7 | က | 4 | . 6 | 200 | ٠. | | | | |
| 15.20 | 19.73—DJB | JJB | Germany | . Daily | | | | 4 | 9 | 8 | 6 | 10 | 11 | 20 | • | • | | | • | | | | | : : |
| 15.13 | 19.82 - 0 | GSF | .England | .Irreg. | | | • | • | | | 6 | 10 | 11 | ZQ | | • | 4 | · 22 | • | | | | | : : |
| 15.11 | 19.84—HVJ | fat | Vatican | Daily | : | : | • | • | | • | • | 22 | : | | | • | • | | ٠ | • | | : | | : |
| 15.04 | 19.94 - 1 | RKI | Russia | Sat., Sun | dun. | • | | | | 2 | 6 | 10 | 00 | | | • | • | | • | • | | : | : | |
| 12.00 | - 1 | RNE | Russia | Daily | | | | | 9 | ω. | 6 | 10 | 202 | | - | 60 | 4 | 70 | _ | • | | | | |
| 11.90 | | | France | Daily | | • | က | 4 | | | ٠ | 10 | 1 | Z | - | 9 | 4 | , z | • | • | | : : | : : | : |
| 11.87 | 25.27 | W8XK | . U. S. A | Daily | | • | | | | | • | : | : | | | • | | 20 | - | ∞ | 802 | : | : | : |
| 11.81 | 25.40 - 2 | -2RO | Italy | Daily | | | • | | | ∞. | 6 | 7, | : | z | 7 | • | | | • | • | | | | : |
| 91 | 11 | DJD | Germany | Daily | | | | | | | ٠ | : | : | z | - | 60 | 4 | 20 | - | 00 | တ | -609 | : | |
| 1.75 | 25.53—(| GSD | .England | Irreg. | | 1 8 | • | | | | • | : | : | z | 7 | က | 4 | 20 | - | 80 | ٠. | 9 | 100 | : |
| 1.72 | | CJRX | Canada | Daily | | | • | | | | • | : | : | | | • | | | • | 00 | 6 | 2 | Ξ | 202 |
| 1.71 | | HJ4ABA | Columbia | Daily | | | | | • | | • | : | : | Z | 90 | • | • | Ξ. | 7 | ∞ | 6 | 2 | 20 | : |
| L.71 | - 1 | | France | Daily | : | | က | 4 | | | ٠ | : | : | | | • | | ٠. | | 00 | 6 | 2 | Ħ | D C |
| 4 | - | JVM | Japan | Daily | | : | • | ♣ | 9 | 20 | • | : | : | | | • | • | | • | • | | : | : | : |
| .33 | 1 | ORK | .Belgium. | Daily | : | : | • | | • | : | • | : | : | | -67 | 2 2 | | | | ٠ | | : | : | : |
| 3.87 | 1 | EAQ | Spain | Daily | : | | • | | ٠ | | • | : | : | | | • | | 'n | ~ | • | | : | : | : |
| 9.64 | | 2RO | \dots Italy | Irreg. | : | | ٠ | | | | • | : | : | | ٠. | က | 4 | 83 | - | ∞ | -++ | : | : | : |
| 60 | 31.25 - 0 | CT1AA | . Portugal | Tu., Th., | h., Sat. | | • | | • | | • | : | : | | | -404 | 4 | ຜ | | • | | : | : | : |
| 69 | - 1 | $^{ m HBL} \dots S_{ m V}$ | Switzerland | Saturday | lay | : | • | • | • | | • | : | : | | | • | • | -60 | | • | | : | : | : |
| 69. | 31.28— | $VK2ME \dots$ | Australia | Sunday | Y. | 18 | • | ıc. | 9 | ∞ ~ | 202 | : | : | | : | • | | : | ٠ | ٠ | | : | : | ¥ |
| | 31.31- | VK3LR | Australla | Daily | : | | က | 4 | 9 | -401 | • | : | : | | | • | • | | : | ٠ | ٠ | : | : | : |
| 9.58 | 1 | GSC | England | Daily | : | • | • | | | • 1 | • : | : ; | :; | .; | ٠, | | | • 1 | Ω [-1 | 00 (| ٠. | 9 | æ ; | : |
| 9.57 | 1 | WIXK | | Daily | : | . • | ٠ | | 9 | ~ · | თ. თ. ი | 3 | Ξ: | Z | - | 3 | 4 | ر د م | , | 20 0 | 5 0 - | 2 | 1 | :; |
| 9.57. | .31.38— | -DJA | Germany | Daily | | - | • | | ٠ و | . c | ກ ∝ຸ | 2 | 72 | . 7 | | . 6 | ٠, | ر بر | | × | 4 24 | : | : | ęi Fi |
| 00.0 | Ļ | TOWN | INOLWE, | IIIES. | | • | | | • | - | • | : | 1 | 5 | 4 | о 3 | ۲ | • | | • | | : | : | : |

| GUIDE-Continued |
|-----------------|
| HOURLY |
| AND |
| BEST STATIONS |

| (≥) | 72 | : : | : | : | : | : | : | : : | : | : | : | : | : | : : | : | : | : | : | : : | : | : | 20 | Z | : | : | : | : | :≥ | 4 |
|------------------------|-------------------|--|------------------------|-------------------|----------------|--------------------|----------------------|--------------------|----------------------|------------------|--------------------|----------------------|--------------------------------|--------------------|-------------------------|--|-----------------------|------------------|---------------------|-----------------------|---------------------------|-------------------|-------------|-----------------------|--------------------|----------------|------------------------------|---------------------------|-----------------------|
| = | : | ec : | : | : | : | : | : 3 | ? : | : | : | : | : | ; a | 2 : | : | : | : | : | : : | : | : | Ħ | 7 | 1 | : | : | : | 00 | : |
| ន | 72 | 9 : | | : | : | - 20 | : ⊊ | 3 : | : | : | : | 0 0 | : 5 | · | 20 | 800 | 0 0 | zo 💥 | : : | 00 | : | 2 | 12 | ដ | 20 | : | zo 9 | 2 | : |
| 6 | 6 | 6 | : | | 80 | | ٠٥ | ٠. | 20 | 20 | • | 6 | . σ | ٠ . | 6 | 6 | 6 | ກ່ວ | | 6 | -101 | 6 | 6 | О | 6 | • | ص | ص ه | 0 |
| ≦ ∞ | 00 | ∞ . | | ٠ | ∞ , | œ | • 00 | | 00 | 00 | 00 | ∞ 0 | × | • 00 | ∞ | 00 | ∞ (| x 0 04 | , so | ∞ | ∞ | ∞ | ٠ | ∞ | ∞ | • 1 | ∞ , | × o | 0 |
| . 6 | 7 | · · | • | ٠ | _, | -101 | • == | 7 P | HCI | - | <u>-</u> | - 1 | - | | 2 | <u>. </u> | <u>-</u> 1 | | - 2 | 2 | ~ | • | • | • | - | • 1 | | - | • 1 |
| 2 | 9 | - CO | 202 | · m | io io | • • | -400 -400 | . • | | ٠. | ٠. | | | . w | 9 | HO: | e G | 0 | . w | | 5 | | | : | Ċ | • | , o | 9 | ٠, |
| 4 | | • • | 2 | ಪ್ರಸ್ತಿ | 4 | • | • | | | | | | | | | | ٠, | 401 | | | -1 24 | | | | | | | 4. | • • |
| က | | | ິຕ | • | ٠ | | • | | | • | • | • | • | | • | • | • | • | | • | • | • | • | • | ٠ | • | • | | ٠, |
| ~ | ٠ | • | 8 | ٠ | ٠ | • | • | | • | • | 20 2 | • | • | • 802 | • | • | • | • | | • | • | ٠ | ٠ | • | • | • | • | ٠ | • • |
| 77 | | • | \vdash | • | • | • | • | | • | • | - | • | • | · | • | • | 20 | • | | • | 82 | • | • | • | | • | • | • | |
| | ٠. | • | Z | • | 20 | ٠ | • | • | • | • | ۲. | • | • | · Z | • | • | _ | • | • | • | _ | • | • | • | | • | : | • | • ; |
| 11 | : | : | : | : | Ħ | : | ÷ | : : | | : | : | : | : | : : | : | : | : | : | : : | : | Ξ | : | : | : | • | • | ٠ | : | : |
| ដ | : | : : | : | : | 2 | : | : | : : | : | : | : | : | : | : : | : | : | : | : | : : | : | 32 | : | : | : | : | ΖΩ | : | : | : |
| 6 | | • | • . | ٠ | ٠ | | ٠ | | • | • | ٠ | • | • | | • | • | ٠ | • | | • | ٠ | • | • | • | ٠ | 6 | ٠ | • | • |
| . 20 | ΣΩ | • • | • | • | • | • | • | • | | • | • | ٠ | • | | • | • | • | • | | • | ٠ | • | • | • | • | ∞ | ٠ | ٠ | • |
| 9.0 | 2 9 | | • | : | : | ٠ | : | | | : | | : | : | | • | | : | : | | : | | : | : | : | | 9 | | : | |
| 2 | 2 | . rc | | | | • | | | | | | | | | | | | | | | | | | | | 70 | | | |
| 4 | 4 | | | • | | | | | | | | | | | | | | | | | | • | • | | • | | | | |
| က | 6244 | | 20 | ٠ | | • | • | | | • | ٠ | • | • | | • | • | • | • | | • | • | • | • | • | • | • | ٠ | ٠ | ٠ |
| 8 | 20 2 | • | 0 | • | ٠ | • | • | | • • | • | • | • | • | | • | • | ٠ | • | | • | • | • | • | • | ٠ | • | • | ٠. | |
| - " | Γ. | • | _ | • | • | • | • | • • | | • | • | • | • | • • | • | • | : | • | • | • | • | • | - | ٠ | • | • | : | . ' | |
| - | | | | • | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 8 | : | : | : | : | : | : : | : : | : | : | : | : | po | : | : | : | : | | : | , 20 | : | : | : | : | : | : | : | : |
| | | S. S. | | : | | : | Y | | | | : | : | : | ays. | | | : | : | | : | Pays. | | | : | : | : | | : | : |
| | | ь F. Sa. | | : | | : | day | 3.V | | | | | а. | Days. | : | | : | | | | Days. | | | | : | | | | : : : : |
| Δı | ily | | | .ily | ily | ily | turday | ndav | ily | eg | eg | 9g. | naay | ek Days. | eg | 11y | 11y | ily | ıly | yll; | | .11y | .11y | eg | dly | ily | Jly | · | |
| Day | Daily | Daily W. Th. F. Sa. | | Daily | Daily | Daily | Saturday | Sunday | Daily | frreg | Irreg | Irreg. | Sungay | Week Days. | Irreg | Daily | Daily | Dally Wednes | Daily | Daily | | Daily | Daily | Irreg | Daily | Daily | Daily | · | ırreg |
| Day | Daily | | | Daily | Daily | Daily | Saturday | Sunday | Daily | Irreg | Irreg | Irreg. | Thurs | Week Days. | Irreg | Daily | Daily | Dally Wednes | Daily | Daily | | Daily | Daily | Irreg | Daily | Daily | Daily | · | Irreg. |
| | | DailyW. Th. | Irreg. | : | : | : | : | : : | | : | : | : | : | | : | : | : | : | | | Week | : | : | : | : | : | Daily | M., W., | LIrreg. |
| | | DailyW. Th. | Irreg. | : | : | : | : | : : | | : | : | : | : | | : | : | : | : | | | Week | : | : | : | : | : | Daily | AM., W., | ¥ |
| | | DailyW. Th. | Irreg. | : | : | : | : | : : | | : | : | : | : | | : | : | : | : | | | Week | : | : | : | : | : | Daily | AM., W., | ¥ |
| Country Day | | DailyW. Th. | Irreg. | : | : | : | : | : : | | : | : | : | : | | : | : | : | : | | | Week | : | : | : | : | : | Daily | AM., W., | ¥ |
| Country | ny | ADaily | Irreg. | : | : | : | : | : : | : : | : | : | : | EcuadorSunday Ecuador Thurs | | : | : | : | . VenezuelaDally | | ColombiaDaily | | : | : | : | : | : | elaDaily. | AM., W., | ¥ |
| Country | Germany | U. S. ADailyAustraliaW. Th. | EnglandIrreg. | : | : | : | Switzerland | Mexico | Colombia | : | Rep. Rom | Costa Rica | Ecuador | Rep. Dom | Costa Rica | Venezuela | . Colombia | Venezuela | Rep. Dom | A Colombia | VenezuelaWeek | Canada | U. S. A | Colombia | U. S. A | Java | VenezuelaDaily. | LU. S. AM., W., | O. 29. A |
| Country | Germany | U. S. ADailyAustraliaW. Th. | England Irreg. | 5Brazil | Cuba | Ecuador | Switzerland | Mexico | Colombia | Colombia | Rep. Rom | Costa Rica | Ecuador | Rep. Dom | Costa Rica | Venezuela | . Colombia | Venezuela | Rep. Dom | A Colombia | VenezuelaWeek | Canada | U. S. A | Colombia | U. S. A | Java | VenezuelaDaily. | LU. S. AM., W., | O. 29. A |
| | Germany | U. S. ADailyAustraliaW. Th. | England Irreg. | 5Brazil | Cuba | Ecuador | Switzerland | Mexico | Colombia | Colombia | Rep. Rom | Costa Rica | Ecuador | Rep. Dom | Costa Rica | Venezuela | . Colombia | Venezuela | Rep. Dom | A Colombia | VenezuelaWeek | Canada | U. S. A | Colombia | U. S. A | Java | VenezuelaDaily. | LU. S. AM., W., | O. 29. A |
| Station Country | Germany | DailyW. Th. | EnglandIrreg. | 5Brazil | Cuba | 3 Ecuador | : | Mexico | 3D. Colombia | Colombia | Rep. Rom | TIEPCosta Rica | -HCZKLEcuador | -HI4DRep. Dom | Costa Rica | Venezuela | HJIABB Colombia | YV4KCVenezuela | HIIARep. Dom | A Colombia | -YV3RC Venezuela Week | -CJROCanada | U. S. A | E Colombia | -W2XEU. S. A | -YDAJava | YV2RC Venezuela Daily . | W3XALU. S. AM., W., | O. 29. A |
| Station Country | -DJNGermany | -W2XAFU. S. ADailyVK3MEAustraliaW. Th. | -GSB EnglandIrreg. | -PRF5Brazil | COHCuba | -HCJB Ecuador | —HBPSwitzerland | XECR Mexico | -HJ1ABD. Colombia | HKEColombia | -HIHRep. Rom | TIEPCosta Rica | -HCZKLEcuador | -HI4DRep. Dom | -TIRCC Costa Rica | -YV6RVVenezuela | -HJIABB Colombia | YV4KCVenezuela | HIIARep. Dom | -HJ2ABAColombia | -YV3RC Venezuela Week | -CJROCanada | W8XKU. S. A | -HJ1ABE Colombia | -W2XEU. S. A | -YDAJava | YV2RC Venezuela Daily . | W3XALU. S. AM., W., | -waaf O. S. A |
| Station Country | -DJNGermany | -W2XAFU. S. ADailyVK3MEAustraliaW. Th. | -GSB EnglandIrreg. | -PRF5Brazil | COHCuba | -HCJB Ecuador | —HBPSwitzerland | XECR Mexico | -HJ1ABD. Colombia | HKEColombia | -HIHRep. Rom | TIEPCosta Rica | -HCZKLEcuador | -HI4DRep. Dom | -TIRCC Costa Rica | -YV6RVVenezuela | -HJIABB Colombia | YV4KCVenezuela | HIIARep. Dom | -HJ2ABAColombia | -YV3RC Venezuela Week | -CJROCanada | W8XKU. S. A | -HJ1ABE Colombia | -W2XEU. S. A | -YDAJava | YV2RC Venezuela Daily . | W3XALU. S. AM., W., | -waaf O. S. A |
| Meters Station Country | .31.45—DJNGermany | 31.48—W2XAFU.S.ADaily 31.55 —VK3MEAustraliaW.Th. | -GSB EnglandIrreg. | .31.55—PRF5Brazil | .31.80—СОНСира | 36.50—HCJB Ecuador | 38.47—HBPSwitzerland | 40.65. XECR Mexico | 41.20—HJ1ABDColombia | 41.55HKEColombia | .44.12—HIHRep. Rom | 44.70—TIEPCosta Rica | .45.00 | 45.50—HI4DRep. Dom | .48.51—TIRCC Costa Rica | .46.01-YV6RVVenezuela | .46.50—HJIABBColombia | Venezuela | .48.50—H11ARep. Dom | .48.60-HJ2ABAColombia | .48.79-YV3RCVenezuelaWeek | .48.85—CJROCanada | W8XKU. S. A | -HJ1ABE Colombia | .49.02—W2XEU. S. A | .49.02-YDAJava | .49.08-YV2RCVenezuelaDaily . | 49.18—W3XALO. S. AM., W., | .43.18 - waar U. B. A |
| Station Country | 31.45—DJNGermany | -W2XAFU. S. ADailyVK3MEAustraliaW. Th. | 31.55—GSBEnglandIrreg. | .31.55—PRF5Brazil | COHCuba | 36.50—HCJB Ecuador | —HBPSwitzerland | 40.65. XECR Mexico | 41.20—HJ1ABDColombia | 41.55HKEColombia | .44.12—HIHRep. Rom | 44.70—TIEPCosta Rica | -HCZKLEcuador | 45.50—HI4DRep. Dom | .48.51—TIRCC Costa Rica | .46.01-YV6RVVenezuela | -HJIABB Colombia | YV4KCVenezuela | HIIARep. Dom | .48.60-HJ2ABAColombia | -YV3RC Venezuela Week | -CJROCanada | W8XKU. S. A | .48.98—HJIABEColombia | .49.02—W2XEU. S. A | .49.02-YDAJava | .49.08-YV2RCVenezuelaDaily . | W3XALU. S. AM., W., | .43.18 - waar U. B. A |

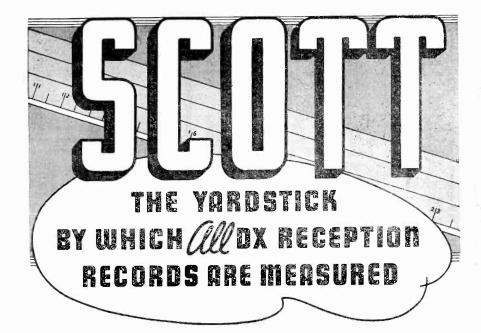
| (| 1234567891011 N 1234567891011 M | | : | : | : | : | : | : | : | × | : | : | : | : | 7, | 8 9 10 11 1/2 | : |
|-----|---------------------------------|-----------|---------------|--------------------|-----------------------|-------------------|---|----------------------|---|------------|-------------------|----------------------|------------------|-------------------------|------------------------|---|-----------------------|
| 1 | Ħ | : | : | : | : | 22 | : | : | : | 1 | : | : | : | 80 | Ħ | = | : |
| ١ | 10 | : | : | 203 | 702 | 9 | 2 | DΩ | : | 10 | 2 | : | : | 2 | 9 | 2 | : |
| 1 | 6 | -409 | | 6 | 6 | 6 | 6 | 6 | | 6 | 6 | 700 | | 6 | 6 | 9 | |
| 4 | • | 00 | | 00 | 00 | -809 | 00 | 00 | ٠ | 00 | ٠ | 00 | | 00 | 00 | 00 | |
| ۵ | | • | -101 | • | 2 | • | <u></u> | 2 | 80 | 2 | • | 6788 | • | <u>-</u> | ٠ | • | • |
| 1 | . 6 | • | 9 | • | 9 | • | 9 | • | 9 | 9 | • | 9 | • | 9 | ٠ | • | • |
| 1 | 4 | : | -809 | • | | • | -80 | • | 20 | | 83 | | • | 1-801 | : | | |
| - 1 | ಣ | | | | | | e | | ٠. | | 8 | | | | | | |
| ı | 8 | | | | | | 0 | | | • | | | -83 | | | | |
| ţ | | | • | • | ٠ | | Н | 0 Q | • | • | ٠ | ٠ | • | ٠ | • | • | • |
| 1 | Z | | 80 | | ٠ | • | Z | Z | -801 | • | • | • | • | | • | • | • |
| -[| 11 | : | Ξ | : | : | : | : | : | 1 | : | 80 | : | : | : | : | : | : |
| - | 10 | : | : | : | : | : | : | • | \dots | : | 2 | : | : | : | : | : | : |
| - | 6 | | | | | | | | HO | | ი | | | | | | 202 |
| J | • | ١. | | | | | | | | • | | • | | | | | 00 |
| 2 | <u></u> | ٠ | ٠ | • | • | • | ٠ | • | • | • | • | • | • | • | • | • | 2 |
| 1 | 9 | ١. | • | • | • | • | • | ٠ | • | • | • | • | 203 | • | • | • | 9 |
| 1 | - | : | • | | | | • | : | | | • | | 113 | • | | | - |
| ١ | က | `. | | | | | | | | | | | | | | | 80 |
| -[| 87 | | | | | | | | | | | • | | | ٠ | | |
| l | , — | • | • | • | • | • | • | • | • | • | • | • | • | • | • | : | • |
| | | : | : | : | : | : | Z : : · · · · · · · · · · · · · · · · · | : | : | : | : | : | : | | : | : | : |
| | | | : | : | : | : | : | : | : | : | : | : | : | : | : | بَہ | : |
| | | : | : | : | : | : | : | : | : | : | ist | : | : | : | : | Sa | : |
| | Α | Daily | . Daily | .Irreg | .Irreg | Daily | . Daily | Daily | .Daily | Irreg | See List | . Daily | Daily | Daily | Daily | . Wed., Sat | Daily |
| | Day | ai |)ai | rr | I | Za. |)ai |)aj |)ai | rre | 8 |)ai |)ai |)ai | Oaj. | Ne |)ai |
| | | -: | Η | Ξ | Ξ | Τ: | Τ: | Τ: | Ξ. | • | | Τ. | Ξ | Τ. | 7 | -: | Τ: |
| | | : | : | : | : | : | .: | : | : | XEBTMexico | : | : | : | : | : | : | : |
| | Country | Bolivia | Colombia. | bia | bia | ma | LD y | oja, | Cuba | <u>i</u> | ă | ä | an | ela | ica | Peru. | 떠 |
| | n | 110 | 日 | ä | H | na. | Ba | Ē | ರ | eX | ă | ā | Ħ | nz | ĸ | Pe | ķ |
| | රි | m | 픙 | 증 | ö | Pa | ie. | 응 | : | Ξ | o. | 응 | Z | ne | sta | : | ķ |
| | | : | 0 | 0 | 9 | : | ن: | ρ. | : | : | ge. | Ö | : | Š | වී | : | ь. |
| | Station | : | | : | 3 | : | : | Ξ | COC | : | Ξ. | ပ | : | 0 | : | · | Ξ: |
| | ati | : | 岡 | : | ğ | В | : | Ē | : | Η | : | ₽ P | : | ⋛ | 퍾 | # | |
| | 83 | က် | 4 <u>A</u> | Z | 11/ | P51 | 0 | 13/ | 2 | B | 널 | 12 | VJ | 751 | Ğ | × | 71 |
| | _ | 49.34—CP5 | 49.45—HJ4ABL. | 49.45—HJNColombia. | 49.65—HJ1ABGColombia. | 49.75—HP5BPanama. | 49.83—DJCGermany. | 49.85—HJ3ABHColombia | ೪ | Ŗ | 50.17—HIXRep. Dom | 50.25-HJ2ABCColombia | 50.26—HVJVatican | 51.28—YV5RMO Venezuela. | 51.50—TIGPHCosta Rica, | 51.90—0AX4D | 70.65—RV15 U. S. S. R |
| | EL G | 1 | Ţ | Ĭ | 1 | Ţ | <u></u> | Ţ | Ĵ | Ţ | | ļ | J | | Ţ | Ţ | Ţ |
| | Meters | .33 | ₹. | 9.4 | 9.6 | 9.7 | 8 | 8.6 | 49.96 - | <u>0</u> . | 7. | 0.2 | 2.2 | 2.1 | 5 | 9. | 9.6 |
| | | | | 4. | | 4. | 4. | 4. | 4. | ĕ | ĕ | بق | | က် | 5 | က် | ~ |
| | Meg. | % | 06 | 2 | 3.04. | 3.03 | 6.02 | 3.01 | 3.00. | 00.02.00 | 5.98 | 5.97 | 97. | 5.85 | .82. | 5.78. | 1.25 |
| | Me | 6.0 | 9.0 | 9. | 9. | 6. | 9 | 9. | 9. | 9. | ņ | Ď. | ŭ | ŭ | v. | ŗ. | 4 |

their program on the half-hour. "See List" means to look in our station list, as the station does not Stations marked 1/2 means that they start or end Write in local Please note-Time given is Eastern Standard. time in space provided underneath Eastern Standard Time (s) means that the station signs off at that hour. operate regularly at the time stated.

SHIP STATIONS

These stations are telephone stations but are sometimes rented to broadcast a special program from a ship. They operate on four band: 16.83 to 18.27 meters, 22.50 to 24.1 meters, 33.93 to 36.58 meters and 67.87 to 73.17 meters. In megacycles this is 17.80 to 16.42, 13.34 to 12.35, 8.84 to 8.20 and 4.42 to 4.10.

VOIM, Monarch of Bermuda; GLSC, Olympic; GFIY, Calcdonia; GMI, Belgan-land; GFWV, Majestic; GDLJ, Homeric; GMBI, Empress of Britain; DOAH, Bermen, DOAI, Europa; DHEY, Deutchland; DHJZ, Hamburg; DOBX, Columbus; DHAO, Albert Ballin; DHRL, New York; ICEI, Rex; IBLI, Conte de Savoia; GBZW, Berengaria; PNSM, Ile de France; GLRZ, Aquitania; VQJP, Queen of Bermuda; DHTY, Resolute.



THE new SCOTT AllWave brings in foreign stations with volume enough to shake the floor — with less annoying extraneous noises, the bugbear of short wave reception. SCOTT'S high *Usable* Sensitivity is the explanation. You will never know what reception of foreign programs really is like until you own a SCOTT.

Here is such hair-line Selectivity that you cut right through powerful adjacent wave length stations and bring in new, exotic foreign stations you have never heard before—from the most romantically remote continents of the globe! Hardly a week passes but DX enthusiasts apply for verification of some sensational new SCOTT record.

FULL RANGE HIGH FIDELITY

SCOTT sheer engineering genius raises ordinary high fidelity reproduction to new pinnacles of brilliance not even approached by any other receiver! Only fractions of the overtones of violins, oboe, bass clarinet and human voice come through all other receivers. Every singing overtone, every delicate shade of interpretation actually live for you at a slight touch of the dial. Half your enjoyment of the marvelous high fidelity programs is cut off unless you have a SCOTT Full Range Hi-Fidelity AllWave receiver.

Many other revolutionary features are yours with a SCOTT—exclusive features



The SCOTT is custom made. The fine things are always custom made. The untiring genius of SCOTT engineers has been crowned with triumph through the years! No other manufacturer dares to challenge the astounding distance logs SCOTT owners have achieved!

Fully guaranteed for five years (tubes excepted). Sold (in the U.S.A. only) direct from laboratories on 30-day trial. Mail the coupon now—today—and we will send you full details about the most thrilling DX receiver in the world.

SEND COUPON for DETAILS

doubles that of any other receiver, 25 to

16,000 cycles.

| |
|--|
| F. H. Scott Radio Laboratories, Inc. 4437 Ravenswood Ave., Dept. 8P5, Chicago, Ill. |
| Send complete details of new Scott Ful Range Hi-Fidelity AllWave and particular of 30-day trial offer. |
| Name |
| Address |
| CityState |
| |

"ON-THE-AIR"

The time given is in Eastern Standard. Add five hours for G. M. T. Mark down the dial readings of the stations heard on the margin of the paper and it will guide you to the location of other stations on your dials

B-Stands for Broadcast stations. These stations broadcast programs, usually relaying

some long wave station.

Meter Meg.

T-Stands for Telephone Stations. These stations are used to relay telephone conversations across oceans and a carrier wave, or "whistle," may be heard for several hours without any voice being heard. Some stations use a "chopper" which distorts the voice and makes it imposssible to understand.

E-Stands for Experimental Stations. These stations are never on the air regularly. They are usually telegraph stations which are rented by some chain to relay a broadcast to

some toreign country. You never can tell when you will hear them.

STATION

```
Meter Meg. STATION

B-13.92-21.54-W8XK, Pittsburg, Pa., relays KDKA 7 · 00 to 9 · 00 A.M.

B-13.93-21.53-GSJ, Daventry, England. Daily 6:00 to 3:45 A.M.

T-14.01-21.41-WKK, Lawrenceville, N. J. Phones LSN 8:00 A.M. to 4:00 P.M.

T-14.17-21.16-LSL, Buenos Aires, Arg. 8:00 A.M. to 1:00 P.M. GAA and PSF.

T-14.23-21.08-FSA, Rio de Janerio, Brazil. Phones WKK, WLK daytime.

T-14.27-21.03-LSN, Buenos Aires, Arg. 8:00 A.M. to 4:00 P.M. WKK and WLK

T-14.28-20.85-EHY-EDM, Madrid, Spain. Phones South America, mornings.

T-14.97-20.04-OPL, Leopoldsville, Belgian Congo. Phones ORG noornings.

T-14.99-20.02-DHO, Nauen, Germany. Phones PPU and LSM mornings.

T-15.14-19.81-WKN, Lawrenceville, N. J. Phones GAU, daytime.

T-15.24-19.69-CEC, Santiago, Chile. Phones LSR, HJY near 11 A.M. and 4 P.M.

T-15.39-19.50-LSO, Buenos Aires, Argentina. Heard testing near 2:00 P.M.

T-15.50-19.35-FTM, St. Assise, France. 10:00 A.M. to 2:00 P.M. LSG.

T-15.50-19.35-PMA, Bandoeng, Java. Phones Holland mornings.

T-15.57-19.27-PPU, Rio de Janeiro, Brazil. Phones ITM, 10:30 A.M. to 3:00 P.M.

T-15.58-19.25-DFA, Nauen, Germany. Phones 10:00 A.M. to 2:00 P.M. irregularly.

T-15.62-19.21-ORG, Brussells, Belgiun. Phones OPL mornings.
  T-15.58-19.25-DFA, Nauen, Germany. Phones 10:00 A.M. to 2:00 P.M. irregularly. T-15.62-19.21-ORG, Brussells, Belgium. Phones OPL mornings. T-15.68-19.13-LSM, Buenos Aires. Argentina. Phones EAQ, DHO, GAA mornings. T-15.88-18.89-ZSS, Klipkeuval, S. Africa. Phones GAS, 6:30 to 7; 10 to 10:45 A.M. T-15.93-18.83-PLE, Bandoeng, Java. Phones Holland 6 to 11 A.M. KWX irregularly. T-16.06-18.68-OCI, Lima, Peru. Testing with HJY near 2:00 P.M. T-16.11-18.62-GAU, Rugby, England. Phones New York mornings. E-16.22-18.48-HBH, Geneva, Switzerland. Used for special programs. T-16.25-18.46-HJY, Bogoto, Columbia. Phones CEC, LSR, 11 A.M. and 4:00 P.M. T-16.35-18.35-WLA, Lawrenceville, N. J. Phones England 8:00 A.M. to 4:00 P.M. T-16.35-18.35-FZS, Saigon, Indo-China. Phones Paris 5:09 A.M. irregularly.
T-16.35—18.35—FZS, Saigon, Indo-China. Phones Paris 5:09 A.M. irregularly.
T-16.38—18.31—GAS, Rugby, England. Phones New York mornings.
T-16.39—18.30—YVR, Maracay, Venezuela. Phones Germany 10:00 A.M.
T-16.44—18.25—FTE, St. Assise, France. Phones LSM, PPU, mornings.
T-16.48—18.20—GAW, Rugby, England. Phones New York mornings.
T-16.50—18.18—CGA, Drummondville, Canada. Phones England daytime.
T-16.50—18.18—PMC, Bandoeng, Java. Phones PCV, 3:10 to 9:20 A.M.
T-16.55—18.12—LSY, Buenos Aires, Argentina. Irregular.
T-16.63—18.04—GAA, Ruby, England. Phones Argentina, 10:00 A.M. to 2:00 P.M.
T-16.82—18.05—PCV, Kootwijk, Holland. 6:00 to 9:00 A.M. Java.
B-16.86—17.79—GSG, Datentry, England. 6:00 to 8:45 A.M.; 9:00 to 10:45 A.M.
B-16.88—17.77—PHI, Huizen, Holland. 7:30 to 10:30 A. M. exc. Tues .and Wed.
T-16.89—17.76—IAC, Piza, Italy. Phones ships early mornings.
B-16.89—17.76—DJE, Nauen, Germany. 7:00 to 11:30 A. M., irregular.
T-16.89—17.75—HSP, Bangkok, Siam. Works Germany, 4:30 to 6:30 A.M.
```

```
TIME
                                                                                                                   STATION
                       Meter Meg.
  T-17.10-17.54-VWY, Poona, India. Phones GBU, 2:00 to 8:00 A.M.
T-17.12-17.52-DFB, Nauen, Germany. Phones LSM and YVQ near 9:00 A.M.
T-17.12—17.52—DFB, Nauen, Germany.

T-17.37—17.27—DAF, Norden, Germany.

T-17.37—17.27—DAF, Norden, Germany.

Phones LSM and VVQ near 9:00 A.M.

T-17.37—17.27—DAF, Norden, Germany.

Phones ships irregularly.

T-18.44—16.30—WLK, Lawrenceville, N. J. Phones England.

T-18.47—16.24—KTO, Manila, P. I. Phones Japan 5:00 to 9:00 P. M., irreg.

T-18.51—16.20—FZR, Saigon, Indo-China, phones Paris mornings.

T-18.71—16.04—KKP, Kauhuku, Hawaii.

T-18.89—15.88—FTK, St. Assise, France.
Phones Saigon 8:30 to 11:00 A.M.

T-18.91—15.86—CEC, Santiago, Chile. Phones OCJ 11 A.M., 1 and 4:40 P.M., irreg.

T-19.02—15.81—LSL, Buenos Aires, Arg. Phones GAA 8 A.M. to 1 and FTM 1-2 P M.

T-19.06—15.74—JIA, Chureki, Taihoku, Japan. Phones Tokio irregularly.

E-19.14—15.67—WAE, Brentwood, N.Y. Testing irregularly afternoons.

T-19.15—15.6 JVE, Nazaki, Japan. Phones Just o 5:00 A.M. and 8:00 P.M.

T-19.47—15.41—KWO, Dixon, California. Phones Hawaii in place of KWU.

T-19.54—15.35—KWU, Dixon, California. Phones Hawaii in place of KWU.

B-19.52—15.37—HAS-3. Budapest, Hungary, Sundays 9:00 to 10:00 A.M.
 B-19.52-15.37-HAS-3, Budapest, Hungary. Sundays 9:00 to 10:00 A.M.
B-19.56-15.34-W2XAD, Schenectady, N.Y., 10:30 A.M.4 P.M. Sun. Daily 2-3 P.M.
B-19.63-15.28-DJQ, Zeesen, Germany. Daily 8:00 to 11:30 A.M.
B-19.64-15.27-W2XE, Wayne, New Jersey, relays WABC 10 A.M. to 5 P.M.
B-19.66-15.26-GSI, Daventry, England. 12:30 to 2:15 P.M. irreg.
B-19.67-15.25-W1XAL, Boston, Mass. Heard Sundays in daytime.
T-19.68-15.25-RIM, Tashkent, U.S.S.R. Phones RK1 near 7:00 A.M.
B-19.68-15.25-Poptoise France. 6:00 to 10:00 A.M. day.
 B—19.68—15.25—Pontoise, France. 6:00 to 10:00 A.M. daily.
B—19.71—15.22—PCJ, Eindhoven, Holland. 7:00 A.M. to 11:00 A.M., irreg.
B—19.71—15.21—W8XK, Pittsburg, Pa., relays KDKA 10 A.M. to 7 P.M.
B—19.73—15.20—DJB, Zeesen, Germany. Daily 3:45 A. M. to 11:30 A. M.
B—19.82—15.13—GSP, Daventry, England. 9:00 A.M. to Noon, 4:15 to 5:45 P.M.
B—19.84—15.11—HVJ, Vatican City. 10:30 to 10:45 A.M. daily.
D-19.04—13.11—HVJ, Vatican City. 10:30 to 10:45 A.M. daily.

F-19.91—15.07—WNC, Hialeah, Florida. Phones HJB, RXC and YVQ, daytime.

T-19.94—15.04—RKI, Moscow, U.S.S.R. Phones RIM near 7:00 A.M.

B-19.94—15.04—HII or HIR, Santo Domingo, R. D., phones WNC daytime.

T-20.03—14.98—KAY, Manila, P. I. Phones DFS 5 to 7 A.M.; U.S.A., 7 to 8 P.M.

T-20.04—14.96—HJB, Bogota, Colombia. Phones Hialeah daytime.

T-20.19—14.86—OCI2. Lima, Peru. Phones HKB-HJY-LSN daytime.

T-20.35—14.74—IRG, Massau, Eritrea, phones Japan from 5:00 to 7:00 A.M. irreg.

E-20.37—14.73—IRJ, Rome, Italy, phones irregularly.

r-20.42—14.69—PSF, Rio de Janerio. Brazil. 7 A.M. to 6 P.M. LSL, WLK, WOR

T-20.45—14.67—GBL, Rugby, England, phones JVH 1:00 to 7:00 A.M.
  B-20.55-14.60-JVH, Nazaki, Japan. Daily 12:00 to 1:00 A.M., Mon. and Thurs. 4:00 to 5:00 F.M. Phones Europe from 4:00 to 8:00 A.M.

T-20.56-14.59-WMN, Lawrenceville, N. J. Phones Europe from 4:00 to 8:00 A.M.

E-20.60-14.56-HBJ, Geneva, Switzerland. Experimenting.

T-20.65-14.53-LSN, Buenos Aires, Argentina. Phones New York daytime.

T-20.69-14.50-TIR and TIU, Cartago, Costa Rica. Phones many stations daytime.

T-20.69-14.50-YNA, Managua, Nicaragua. Phones Hialeah daytime.

T-20.69-14.50-HPF, Panama City. Phones Florida daytime.
  T-20.69-14.50-HPF, Panama City. Phones Florida daytime.

B-20.71-14.48-HRM, Tela, Honduras. Phones WNC irregularly in daytime.

T-20.71-14.48-TGF, Guatemala City. Phones Florida daytime irregularly.

T-20.73-14.46-GBW, Rugby, England. Phones WNC 6:00 A.M. to 6:00 P.M.

E-20.97 to 21.26-14.30 to 14.11-Amateur phones heard in daytime.

E-21.20-14.20-WIOXFP, The Schooner "Morrissey." Irregular.

E-21.26-14.10-HJ5ABE, Cali, Colompia. 7:00 P.M. to midnght, Irregular.

E-21.58-13.90-WQP, Rocky Point, N. Y. Testing with RNE irregularly mornings.

T-21.70-13.83-SUZ, Cairo, Egypt. Phones GAA 7:00 A.M. to 3:30 P.M.

E-21.98-13.65-HJY, Bogota, Colombia. Used Irregularly.

T-22.09-13.58-GBB, Rugby, England. Phones Canada and Egypt daytime.

T-22.35-13.42-GCI. Rugby. England. Phones Canada and Egypt daytime.
     T-22.35-13.42-GCJ, Rugby, England. Phones JVH 3:00 to 8:00 A.M. T-22.40-13.39-WMA, Lawrenceville, N. J. Phones England daytime.
```

```
T-22.48-13.35-YVQ, Maracay, Venezuela. Phones Florida daytime.
T-22.49-13.34-KPJ, Manila, P. I. Phones Java 1:00 to 6:00 A.M. irregularly.
T-22.50 to 24.3-13.34 to 12.35-Ships. Heard in daytime.
T-22.58-13.28-CGA3, Drummondville, Canada. Phones ships and England daytime.
T-22.76-13.18-DGG, Nauen, Germany. Phones Asia mornings irregularly
B-22.95-13.07-VPD Suva. Iiji Islands. Daily except Sun. 12:30 to 1:30 A.M.
B—22.95—13.07—VPI) Suva. Iiji Islands. Daily except Sun. 12:30 to 1:30 A..M f—23.00—13.04—German ships. 11:15 A.M. and 1:30 P.M. T—23.36—12.84—WOO, Ocean Gate, N. J. Phones ships irregularly. T—23.38—12.83—CNR, Rabat, Morocco. Phones St. Assise 5:00 to 8:00 A.M. F—23.45—12.80—IAC, Piza, Italy. Works ships mornings. T—23.47—12.78—GBC, Rugby, England. Phones ships irregularly. B—24.20—12.40—CTIGO, Parede, Portugal. Tu., Th., Fri., 1-2:15 PM, Sun. 10:11:30 AMT T—24.20—12.40—DAF, Norden, Germany. Phones ships irregularly mornings. T—24.40—12.30—PLM, Bandoeng, Java. Phones VK2ME near 6:30 A.M.
T-24.41—12.29—GBU, Rugby, England. Phones America evenings. E-24.52—12.24—TFI, Reykjavik, Iceland, phones GSC irregularly. T-24.56—12.22—FLI, Paris, France, works ships irregularly.
T-24.56-12.22-FLJ, Paris, France, works ships irregularly.

[-24.69-12.15-GBS, Rugby, England. Phones New York.]

T-24.88-12.06-PDV, Kootwijk, Holland. Tests near 7:30 A.M.

B-25.00-12.00-RNE, Moscow, U.S.S.R. Daily 1:00 to 6:00 P.M. Sun. 6-7 A.M., 10-
11 A.M., Wed. 6-7 A.M.

T-25.02-11.99-FZS, Saigon, Indo-China. Phones Paris mornings.

E-25.11-11.97-KKQ, Bolinas, California. Heard irregularly evenings.

T-25.12-11.95-FTA, St. Assise, France. Phones CNR 4 to 7 A.M.; LSM 10 to 12 P.M.
B-25.23-11.90-Pontoise, France, 3-4 A.M. 10:00-1:15 P.M., 2-5 P.M. B-25.27-11.87-W8XK, Pittsburg, Pa., relays KDKA 5:00 to 9:00 P.M. B-25.36-11.82-W2XE, Wayne, New Jersey, relays WABC 5:00 to 7:00 P.M. B-25.40-11.81-2RO, Rome, Italy. 8:15 to 10:15 A.M., 12:00 to 1:00, 1:45-2:30 P.M.
B-25.40-11.81-2RO, Rome, Italy. 8:15 to 10:15 A.M. 12:00 to 1:00, 1:45-2:30 r...
B-25.42-11.80-CO9WR, Sancti Spiritus, Cuba, 4-6 and 9-11 P.M.
B-25.42-11.79-W1XAL, Boston, Mass. Schedule not known.
B-25.42-11.79-DJD, Zeesen, Germany. Noon to 4:30 P.M., 5.00 to 10:30 P.M.
B-25.53-11.75-GSD, Daventry, England. 12:15-2:15 A.M., 12:15-8 P.M., 10-11 P.M.
B-25.60-11.72-CJRX, Winnipeg, Canada. 8:00 P.M. to Midnight.
 B-25.62-11.71-HJ4ABA, Medellin, Colombia. 11:30-1:00 P.M., and 6:30-10:30 P.M. B-25.63-11.70-Pontoise, France. 3 to 4 A.M., 6 to 9 and 10 P.M. to 12 Midnight. E-25.63-11.71-KIO, Kauhuku, Hawaii. Heard in the evenings testing.
  E-25.73-11.66-PPQ, Rio de Janeiro, Brazil. Used irregularly in evenings.
 B-25.93-11.57-HH2T, Port-au-Prince, Haiti. Heard irregularly, evenings.
B-25.93-11.57—HH21, Fort-au-Frince, nam. Heard irregularly, evenings.
E-25.95-11.56-VIZ-3, Australia. Testing with CGA4 or CJA-4, 6 to 10 P.M., irreg.
E-26.09-11.50-XAM, Merida. Yucatan. Irregularly 1:00, 6:00 and 7:00 P.M. T-26.29-11.41-CJA-4, Drummondville, Ont., phones VIZ-3 6:00 to 11:00 P.M. irreg.
T-27.15-11.05-ZIT, Wellington, New Zealand, phones VLK 1:00 to 7:00 A.M.
T-27.26-11.00-PLP, Bandoeng, Java. Broadcasts Tues. and Thurs., 10-10:30 A.M.
F-27.35-10.97-OC1, Lima, Peru. Phones HJY evenings.
F-27.35-10.97-OCI, Lima, Peru. Phones HJY evenings.

E-27.65-10.85-DFL, Nauen, Germany. Irregular.

T-27.67-10.84-KWV, Dixon, California. Phones Hawaii daytime.

T-27.86-10.77-GBP, Rugby, England. Phones VLK 11:00 P.M. to 8:00 A.M. F-27.93-10.74-JVM. Nazaki, Jajan. Heard 1:30 to 7:00 A.M. and 7 to 11 P M. T-28.09-10.68-WNB, Lawrenceville, N. J. Phones Bermuda daytime.

E-28.12-10.67-CEC, Santiago, Chile, broadcasts Sundays 8:30 to 9:00 P.M. 1-28.14-10.66-JVN, Nazaki, Jajan. Phones Europe 3:00 to 8:00 A.M. E-28.28-10.61-WEA, Rocky Point, N. Y. Tests irregularly with Europe. T-28.44-10.55-WOK, Lawrenceville, N. J. Phones Brazil and Argentine irregularly E-28.49-10.53-JIB, Tawian, Jajan. Heard irregularly.

T-28.51-10.52-VK2ME.VLK, Sydney, Australia. 1:00 to 8:00 A.M. GBP. E-28.79-10.42-XGW. Shanghai, China. Vesting near 6:00 A.M.
  E-28.79-10.42-XGW, Shanghai, China. Vesting near 6:00 A.M.
T-28.80-10.42-PDK, Kootwijk, Holland. Phones Java, 7:30 to 9:40 A.M.
  T-28.80-10.40-YBG, Medan, Sumatra. 5:30-6:30, 12:30-1:30 A.M., 7:30-8:30 PM.
E=28.85=10.40—KEZ, Bolinas, California. Used irregularly.
E=28.91=10.38—WCG, Rocky Point, N. Y. Tests irregularly.
B=28.98=10.35=LSX, Buenos Aires, Argentina. 6:15 to 7:15 P.M. daily. Wed., 10 P.M.
E=29.03=10.33=ZFD, St. Georges, Bermuda. Heard afternoons irregularly.
B=29.04=10.33=ORK, Brussells, Belgium. 1:30 to 3:00 P.M.
```

```
E-29.13-10:30-LSQ, Buenos Aires, Argentina. Used for special tests.
E-29.15-10.29-DIQ, Nauen, Germany. Used irregularly.
T-29.25-10.26-PMN, Bandoeng, Java. Near 5:30 A.M. daily. VLK.
T-29.45-10.22-PSH, Rio de Janeiro, Brazil. Sending music evenings.
F-29.50-10.17-RIO, Bakou, U.S.S.R. Phones Moscow 8:00 to 10:00 A.M.
T-29.58-10.14-OPM, Leopoldville, Belgian Congo. Phones ORK 9-11 A.M., 3-6 P.M.
T-29.79-10.07-EHY, Madrid, Spain. Phones YVR near 4:00 P.M. irregularly.
               -29.83-10.05-ZFB, Hamilton, Bermuda. Phones U.S.A. and ships daytime.
                                                                                                                                                                                                                                    TIME
Meter Meg. STATION
TIME
T=29.83=10.05—SUV, Cairo, Egypt. Phones GAA after 3:30 P.M.
P=30.99=9.97—KAZ, Manila, P. I. Phones PLV near 2:00 A.M.
P=30.15=9.95—GCU, Rugby, England. Phones New York evenings.
P=30.21=9.93—HKB, Bogota, Colombia. Phones PSK irregularly evenings.
P=30.30=9.90—LSN, Buenos Aires, Argentina. 6:00 P.M. to 6:00 A.M. WLO.
P=30.40=9.87—WON, Lawrenceville, N. J. Phones England evenings.
P=30.40=9.87—EAQ, Madrid, Spain. Daily 5:15 to 7:30 P.M., Sat. 1 to 3 P.M.
P=30.40=9.87—EAQ, Madrid, Spain. Daily 5:15 to 7:30 P.M., Sat. 1 to 3 P.M.
P=30.52=9.83—IRM, Rome, Italy. Phones Egypt afternoons.
P=30.60=9.80—GCW, Rugby, England. Phones America evenings.
                 Meter Meg.
                                                                                    STATION
  E-30.61— 9.80—LSI, Buenos Aires, Argentina. Used irregularly evenings.
T-30.75— 9.76—VK2ME-VLK, Sydney, Australia. Phones Java 4:00 to 8:00 A.M.
 T-30.77— 9.75—WOF, Lawrenceville, N. J. Phones England evenings.
T-30.90— 9.71—GCA, Rugby, England.
T-31.08— 9.67—DGU, Nauen, Germany.
Phones Argentina around 6:00 P.M.
Phones Egypt daily from 5 A.M. to 5 P.M.
B-31.13- 9.64-2RO, Rome, Italy. Mon., Wed., Fri., 6:00 to 9:15 P. M. B-31.25- 9.59-CT1AA, Lisbon, Portugal. Tues., Thurs. and Sat., 3:30 to 6:00 P. M. B-31.27- 9.59-HBL, Geneva, Switzerland. 5:30 to 6:15 P. M., Saturday. B-31.28- 9.59-W3XAU, Philadelphia, Pa., Noon to 6.45 P.M. B-31.28- 9:59-VK2ME, Sydney, Australia. Sun. 12-2, 4:30-8:30, 9:30-11:30 A.M. B-31.28- 9.59-HF5J, Panama City, Panama. 11:45 A.M. to 1:00 P. M., 7:30 P.M. to
 10:00 P. M.
B-31.30- 9.58-GSC, Daventry, England. 6:00 to 8:00 P. M., 10:00 to 11:00 P. M.
B-31.30— 9.58—GSC, Daventry, England. 6:00 to 8:00 P. M., 10:00 to 11:00 P. M. B-31.31— 9.58—VK3LR, Melbourne, Australia, 10:30-3:00 irreg.; 3:15-7:30 A.M., daily. B-31.34— 9.57—LKJ1, Jeloy, Norway. 5:00 to 8:00 A.M., 11:00 A.M. to 6:00 P.M. B-31.36— 9.57—W1XK, Boston, Mass, (Millis) 6:00 A. M. to Midnight. B-31.36— 9.57—VUY-VUB, Bombay, India. Wed. and Sat., 11:00 A.M. to 12:30 Noce B-31.38— 9.56—DJA, Zeesen, Germany. 12:30-2:15, 8:00-11:30 A.M., 5:05-9:15 P.M. B-31.45— 9.54—DJN, Zeesen, Germany. 12:30-2:15, 3:45-7:15 A.M., 5:05-10:45 P.M. B-31.48— 9.53—W2XAF, Schenactady, N. Y., Sundays 4:30-12, Daily 5:30-11 P.M. B-31.55— 9.51—VK3ME, Melbourne, Australia. Wed., Thcr., Fri, Sat., 5 to 7 A.M. B-31.56— 9.50—PRF5, Rio de Janeiro, Brazil. Daily 4:45 to 5:45 P.M., also irreg.
T-31.63—9.48—PLW, Bandoeng, Java. Phones Australia 3:00 to 8:00 A.M. irregularly.
T-31.71—9.46—Tripoli, Africa. Phones IAC, Italy, 6:00 A.M. to 1:00 P.M., irreg.
B-31.80—9.43—COH, Havana, Cuba. 10 to 12 A.M.; 4:00 to 6:30; 8 to 10 P.M.
T-31.86—9.42—PLV, Bandoeng, Java. Bcds. Tues. and Thurs., 10:00-10:30 A.M.
T-32.15—9.33—CGA4, Drummondville, Canada. Phones Ships and England irregularly.
T-32.33—9.28—GCB, Rugby, England. Phones CGA and SUV afternoons.
T-32.72—9.17—WNA, Lawrenceville, N. J. Phones England evenings.
T-32.83—9.14—YVR, Maracay, Venezuela. Phones Europe afternoons.
B-32.88—9.12—HAT44. Rudanest, Hungary. Sundays, 6:00 to 7:00 P.M.
1—22.00—7.13—1 v.K., Maracay, venezuela. Findes Europe after noons.

B—32.88—9.12—HAT-4, Budapest, Hungary. Sundays 6:00 to 7:00 P.M.

T—33.26—9.02—GCS, Rugby, England. Phones New York evenings.

E—33.29—9.01—KEJ, Bolinas California. Tests irregularly.

E—33.29—8.95—WEL-W2XBJ, Rocky Point, N. Y. Testing irregularly evenings.

T—33.41—8.98—VWY, Poona, India. Phones England near 8:30 A.M.
  T-33.93 to 36.58-8.84 to 8.20-Ships. Heard irregularly.
T=33.93 to 36.58=8.84 to 8.20—Ships. Heard irregularly.

E=34.10— 8.79—HKV, Bogota, Colombia. Testing, 5:30 to 11:00 P.M., irrég.

T=34.19— 8.77—PNI, Makasser, D. E. I. Phones Java near 4:00 to 5:00 A.M.

B=34.29— 8.75—ZBW, Hong Kong, China. Daily 11:30 P.M. to 1:15 A.M., Mon. and Thurs. 3:00 to 7:00 A.M., other days 6:00 to 10:00 P.M.

E=34.35— 8.74—WXV, Fairbanks, Alaska, works WXH between 10 P.M. and 4 A.M.

T=34.56— 8.68—GBC, Rugby, England. Phones ships irregularly.

E=34.68— 8.65—WVD, Seattle, Wash. Testing irregularly.
```

```
Meter Meg.
                                                                                                                     STATION
                                                                                                                                                                                                                                                                                                                       TIME
  T-35.02—8.57—WOO, Ocean Gate, N. J. Phones ships irregularly.
T-35.42—8.47—DAF, Norden, Germany. Phones ships irregularly.
T-35.80—8.38—IAC, Piza, Italy. Works ships irregularly.
 T-35.80- 8.38-IAC, Piza, Italy. Works ships irregularly.
B-36.50- 8.21-HCJB, Quito, Ecuador. Daily except Mon. 7:30 to 11:30 P.M.
I-36.65- 8.19-PSK, Rio de Janeiro, Brazil. Sending music 6:00 to 7:30 P.M.
E-37.97- 7. -LSL, Buenos Aires, Argentina. Heard afternoons and Evenings.
I-38.06- 7.86-SUX, Cairo, Egypt. Phones Rome and London afternoons.
B-38.19- 7.84-HC2JSB, Guayaquil, Ecuador. 9:15-2:15 P.M. and 7:15 to 11:15 P.M.
B-38.47- 7.80-HBP, Geneva, Switzerland. 5:30 to 6:15 P.M. Saturdays.
E-38.50- 7.78-PSZ, Rio de Janeiro, Brazil. Heard between 6:00 and 11:00 P.M. irreg.
E-38.89- 7.71-KEE, Bolinas. California. Tests evenings irregularly.
I-39.34- 7.63-RIM, Russia. Phones RKI 6:00 to 8:15 A.M.
I-39.42- 7.61-KWX Divon California. Phones Hawaii nights
  T—39.42— 7.61—KWX, Dixon, California. Phones Hawaii nights.

E—39.68— 7.56—KWY, Dixon, California. Phones Japan irregularly.

T—39.89— 7.52—KKH. Kauhuku, Hawaii. Phones KWO evenings.
 1-9.89-7.32-KKH, Kaunuku, Hawaii. Phones KWO evenings.
T-39.95-7.51-JVP, Nazaki, Japan. Phones irregularly.
T-39.97-7.50-RKI, Russia. Phones RIM 6:00 to 8:15 A.M.
B-40.55-7.40-HJ3ABD, Bogota, Colombia. 7:30 to 11:00 P.M.
T-40.60-7.39-ZI.R, Wellington. N. Z. Phones Sydney from 3 to 5 A.M. irregularly.
B-40.65-7.38-XECR, Mexico City. Sundays, 6:00 to 7:00 P.M.
T-40.71-7.37-KEQ, Kauhuku, Hawaii. Phones Dixon nights.
T-40.71— 7.37—KEQ, Kauhuku, Hawaii. Phones Dixon nights.

B-41.20— 7.28—HJ1ABD, Cartagena, Colombia. 7:30 to 9:00 P.M.

B-41.55— 7.22—HKE, Bogota, Colombia. 7:30 to 9:00 P.M.; Tues., Fri. 8 to 9 P.M.

B-41.60— 7.21—EA8AB, Santa Cruz, Canary Islands. 5:00 to 7:00 P.M, irregular.

B-41.80— 7.17—CR6AA, Lobito, Angela, Africa. Wed. and Sat. 2:30 to 4:30 A.M.

B-42.68— 7.08—PJJ, Dordrecht, Netherlands. Saturday 10:10 to 11:10 A.M.

B-42.68— 7.08—VP3MR, Georgetown, British Guiana, around 4:45 to 8:40 P.M.

T-43.45—6.90—GDS, Rugby, England. Phones New York nights.

B-43.48— 6.84—KEN, Bolinas, California. Used irregularly.

B-44.12—6.81—HIH, San Pedro de Macoris, R. D. 12:10 to 1:40 P.M. and 6:40 to 7:40 P.M. daily; 3:00 to 4:00 A.M. and 4:00 to 5:00 P.M. Sundays.

T-44.44—6.75—WOA, Lawrenceville, N. J. Phones England nights.

T-44.44—6.75—JVT, Nazaki, Japan. 1:30 to 8:00 A. M. oftimes with music.

B-44.71—6.71—TIEP, San Jose, Costa Rica. 5:00 to 10:00 P.M. irregularly.

B-44.00—6.67—YVQ. Maracay, Venezuela. Broadcasts 8:00 P.M. Saturday.

B-45.00—6.67—HC2RL, Guayaquil, Ecuador, Sun. 5:45-7:45, Tues. 9:15-11:15 P.M.

T-45.10—6.65—IAC, Piza, Italy. Phones ships evenings.
B-45.31— 6:62—PRADO, Riobamba, Ecuador. Thursdays 9:00 to 11:30 P.M.
B-45.38— 6:61—REN.Moscow, U.S.S.R. 1.00 to 6:00 P.M.
B-45.50— 6:61—HI4D, Santo Domingo, R. D. 11:55 to 1:40, and 4:40 to 7:40 P.M.
B-45.81—6.55—TIRCC, San Jose, Costa Rica, 6:00 to 11:30 P.M. irreg.
B-45.95— 6:53—HIL, Santo Domingo, R. D. Saturdays 8:00 to 10:00 P.M.
B-46.01— 6:52—YV6RV, Velencia, Venezuela. 12:00-2:00 P.M. and 6:00-10:00 P.M.
B-46.30— 6:48—HJ5ABD, Cali, Colombia. 7:00 to 10:00 P.M.
B-46.51— 6:45—HJ1ABB, Barranquilla, Colombia. 4:30 to 10:00 P.M. daily.
E-46.77— 6:41—HJ4A3, Barranquilla, Colombia. Phones HJA2, irregular.
B-46.87— 6:40—TIGP, San Jose, Costa Rica. 8:30 to 11:00 P.M., irregular.
B-47.10— 6:37—YV4RC, Caracas, Venezuela. 4:30 P.M. to 10:30 P.M.
E-47.39— 6:35—JZC, heard relaying JVT, JOAK from 5:00 to 7:30 A.M. irregularly.
  E-47.39-6.35-IZG, heard relaying JVT, JOAK from 5:00 to 7:30 A.M. irregularly. B-47.50-6.31-HIZ, Santo Domingo, R. D. Daily 5:00-6:00 P.M., Sat. 11:00 P.M.
  E-48.00- 6.25--Army aircraft heard in daytime.
E-48.00- 6.25-Army aircraft heard in daytime.
B-48.00- 6.25-OAX4G, Lima, Peru. Wednesdays 7:00 to 11:30 P.M.
B-48.40- 6.20-CTIGO, Parede, Portugal. Daily except Sat. and Mon.. 7 · 20 to 8:30 P. M. and Sundays from 11:40 A. M. to 1:00 P. M.
B-48.50- 6.19-HIIA, Santiago de Caballeros, R. D. 11:40 to 1:40; 7:40 to 8:40 P.M.
B-48.60- 6.17-HJ2ABA, Tunja, Colombia. 1:00-2:00 P.M. and 7:00 to 10:00 P.M.
B-48.62- 6.17-HJ3ABF, Bogota, Colombia. Daily from 6:00 ti 11:00 P.M.
B-48.78- 6.15-YV3RC, Caracas, Venezuela. 10:30 to 1:30 and 4:30 to 9:30 P.M.
B-48.78- 6.15-HJ5ABC, Cali, Colombia. Mon., Wed., Fri., 7:00 to 10:00 P.M.
B-48.79- 6.15-CO9GC, Santiago, Cuba. 8:30-10:00 A.M., Noon-1:30 P.M., 3:30-4:30 P.M., 10:00-11:00 P.M.
B-48.82- 6.14-CSL, Lisbon, Portugal. 1:30 to 7:00 P.M. irregularly.
```

```
Meter Meg.
                                                                                                   STATION
                                                                                                                                                                                                                                                                                    TIME
  Meter Meg. STATION

B—48.85— 6.14—CJRO, Winnipeg, Canada. 8:00 P.M. to Midnight.

B—48.86— 6.14—W8XK, Pittsburg, Pa., relays KDKA 9:00 P.M. to 1:00 A.M.

B—48.92— 6.13—ZGE, Kuala Lampur, S. S. Sun., Tues., and Fri., 6:40 to 8:40 A.M.

B—48.92— 6:13—COCD, Havana, Cuba. Heard 5:00 P.M. to 1:00 A.M., irregular.

B—48.98— 6:13—HJ1ABE, Cartagena, Colombia, daily 7:30 to 9 P.M., Mon. 10:30 P.M.

B—49.02— 6:12—VQ7LO, Nairobi, Africa. 5:45-6:15 A.M., 11:00 A.M.-2.00 P.M.

B—49.02— 6:12—VDA, Bandoeng, Java. Heard between 5:00 and 11:00 A.M.

B—49.08— 6:11—YV2RC, Caracas, Venezuela. 10:30 to 1:00; 5:15 to 10:00 P.M.
  B-49.10— 6:11—CSL, Daventry, England. 2:30 to 4:00 P.M.
B-49.10— 6:11—VE9HX, Halifax, N. S. 8:30 to 11:30 A.M. and 5:00 to 10:00 P.M.
B-49.10— 6:11—VUC, Calcutta, India. 9:30 A.M. to Noon, Sat., 11:45 P.M. to 3 A.M.
B-49.15— 6:10—HJ4ABB, Manizales, Colombia, 8:00 to 11:30 P.M. irregularly.
B—49.18— 6:10—W9XF, Chicago, Ill. 12 M. to 1:00 A. M. and 8:00 to 9:00 .P. M.
B-49.18— 6:10—W3XAL, Bound Brook, N. J. Mon., Wed. and Sat., 4:00-11:00 P.M.
B-49.20— 6:09—ZTJ, Johannesburg, Africa. 3:30 to 7:00 A.M.: 9:00 A.M. to 4:00 P.M.
B-49.22— 6:09—VE9GW, Bowinanville, Canada. Thur., Fri., Sat. 7:00 A.M. to 4:00 P.M.
M, Sun. Noon to 8:00 P.M.
B-49.34— 6:08—W9XAA, Chicago, Illinois. No apparent regular schedule.
M, Sun. Noon to 8:00 P.M.

B-49.34— 6.08—W9XAA, Chicago, Illinois. No apparent regular schedule.

B-49.34— 6.08—ZHJ, Penang, S. S. Daily 6:40 to 8:40 A. M.

B-49.34— 6.08—CP5, La Paz, Bolivia. 8:00 to 9:00 P.M. daily.

B-49.40— 6.07—WE9CS, Vancouver, B. C. Daily 6-7; Sun., 1:45 P.M. to 1:00 A.M.

B-49.40— 6.07—HJN, Bogota, Colombia. 6:00 to 11:00 P.M. irregularly.

B-49.41— 6.07—HH2S, Port-Au-Prince, Haiti. Heard irregularly, evenings.

B-49.42— 6.07—OER2, Vienna, Austria. 9:00 A.M. to 5:00 P.M. week-days.

B-49.45— 6.06—HJ4ABI., Manizales, Col., 11-Noon, 5:30-7:30 daily, Sat. 10:30 P.M.

B-49.50— 6.06—OXY, Skamlehaek, Denmark. Daily 1:00 to 6:00 P.M.

B-49.50— 6.06—W8XAL, Cincinnati, Ohio. 5:30 A.M. to 7:00 P.M., 10:00 P.M. to
                                                                                                               1:00 A. M.
  B-49.50- 6.06-W3XAU, Philadelphia, Po. 7:00 P. M. to 10:00 P. M. B-49.65- 6.04-HJ1ABG, Barranquilla, Colombia. 6:00 to 10:00 P.M.
B—49.65— 6.04—HJ1ABG, Barranquilla, Colombia. 6:00 to 10:00 P.M.
B—49.67— 6.04—HJ4ABC, Periera, Colombia. 9:30 to 11:00 A.M., 7:00 to 8:00 P.M.
B—49.67— 6.04—W4XB, Miami Beach, Florida. 11:30-2:00 PM., 8:00-12 midnight.
B—49.67— 6.04—PRA8, Pernambuco, Brazil. 2:30 to 8:30 P.M.
B—49.75— 6.03—HP5B, Panama City, Panama. 12 to 1; 8 to 10:30 P.M.
B—49.83— 6.02—DJC, Zeesen, Germany. Noon to 4:30 P.M. and 9:30 to 10:30 P.M.
B—49.83— 6.02—CQN, Macao, China. Monday and Friday, 3:00 to 5:00 A.M.
B—49.85— 6.01—HJ3ABH, Bogota, Col., 11:30 A.M. to 2, 611, P.M., Sun. 4-9 P.M.
B—49.90— 6.01—COC, Havana, Cuba. 9:30 A.M. to 12:30 Noon; 4:00 to 7:00 P.M.;
8:00 to 10:00 P.M. and Saturdays at 11:30 Noon; A.M.
B—49.95— 6.01—ZHI, Singapore. Mon., Wed., Thurs. 5:40-8:10; Sat., 10:40-1:10 A.M.
B—49.95— 6.01—HJ1ABJ, Santa Marta, Colombia. 6:30 to 10:30 P.M., regular.
B—50.00— 6.00—XEBT, Mexico City. 6:00 P.M. to 3:00 A.M. irregularly.
B—50.17— 5.98—HIX, Santo Domingo, R. D. Tues, and Fri., 8:10 to 10:10 P.M.;
Sundays, 8:40 to 10:40 A.M. and 2:40 to 4:40 P.M.
B—50.25— 5.98—XECW, Mexico City, Mexico. 4:00 to 4:30 and 10:30 to 12:00 P.M.
 B-50.25 5.98—XECW, Mexico City, Mexico 4:00 to 4:30 and 10:30 to 12:00 P.M. B-50.26 5.97—HVJ, Vatican City. Daily, 2:00 to 2:15 P.M., Sun. 5:00 to 5:30 A.M. B-50.30 5.96—YNLF, Managua, Nicaragua. 6:00 P.M. to 1:00 A.M., irreg.
 B-50.50 - 5.93 - HJ4ABE, Medeliin, Col., 10:00 to 11:00 A.M. and 5:00 to 9:30 P.M. B-50.93 - 5.89 - HJ2ABC, Cucuta, Colombia. 11 A.M. to Noon; 6 to 9:30 P.M. B-50.93 - 5.89 - TGX, Guatemala City. 11:00 A.M. to 2:30 P.M., 6:00 to 10:00 P.M. T-51.26 - 5.85 - WOB, Lawrenceville, N. J. Phones Bermuda nights.

B-51.28 - 5.85 - YV5RMO, Maracaibo, Venezuela. 11:00 A.M. to 12:30 P.M., 5.9 P.M.
 B-51.50- 5.82-TIGPH, San Jose, Costa Rica. 6:15 to 11:00 P.M. irregularly. T-51.50- 5.82-HJA2. Bogota, Colombia. Phones HJA3 afternoons and evenings. B-51.60- 5.88-YV8RB, Barquisimeto, Venezuela. 6:00 to 10:00 P.M. B-51.90- 5.78-HIJ, San Pedro de Macoris, R. D. 7:00 to 9:30 P.M. irregularly. B-51.90- 5.78-OAX4D, Lima, Peru. Wed, and Sat. from 8:00 to 11:30 P.M.
  E-52.97- 5.66-CFU, Rossland, Canada. Works CFO and CFN near 10 P.M. irreg.
E-55.56 5.40-HJA-7, Cucuta, Colombia Mondays 4:30 to 7:30 P.M. irregularly. B-58.30 - 5.15-PMY, Bandoeng, Java, 6:00 A.M. to Noon. T-59.08 - 5.08-WCN, Lawrenceville, N. J. Phones England evenings. T-59.76 5.02-ZFA, Hamilton, Bermuda. Phones U.S.A. and Ships at night.
```

Meter Meg. STATION
TIME

T-60.26-4.98-GBC, Rugby. Phones to ships irregularly.
T-61.15-4.90-CGA8, Drummondville, Canada, phones ships irregularly.
T-63.13-4.75-WOO, Ocean Gate, N. J. Phones ships irregularly.
B-65.22-4.60-HC2ET, Guayaquil, Ecuador. Wed., and Sat., 9 to 11 P.M.
T-66.50-4.51-ZFS, Nassau, Bahamas, works WND evenings.
T-67.87 to 73.17-4.42 to 4.10-Ships. Heard irregularly.
B-70.65-4.25-RV15, Khabarovsk, U.S.S.R. 1:00 to 9:00 A.M.
T-73.21-4.10-WND, Hialeah, Florida. Phones irregularly with VPN.
E-75 to 75.8-4.00 to 3.96-Amateurs on voice.

CHAPTER NEWS

The London, England, Chapter took an active part in the Annual Radio Exhibit held from August 14th to August 24th. Thousands of folders describing the International Short Wave Club were distributed by members at this great radio show. The second annual convention of the European ISWC was held on August 25th at Maison Lyons Hall and many famous radio people helped make both of these affairs a success. The London Chapter meets at RACS Hall, Wandsworth Road, S. W. 8, each Tuesday excepting the second in each month. Plans are now being made for visits to the Rugby stations, the Airport at Croydon and the London Telephone Exchange.

The New York Chapter starts the Fall season with a meeting at the Waldorf Astoria Hotel, where members can inspect the World's largest all-wave receiver, one that supplies thousands of rooms of the hotel with short wave programs. This will be held Friday, September 27th, at the Hotel. This chapter is also arranging an exhibit at the National Electric and Radio Exposition to be held at Grand Central Palace, September 18 to 28, inclusive. For particulars write to Jacob Kleimans, 2610 Greenwood Road, Brooklyn.

The Manchester, England, Chapter meets at British Legion Hall, Long Street, on the first and third Tuesdays of the month.

The Leicester, England, Chapter meets at Foresters Institute, Leicester,

on the first and third Wednesdays of the month.

The Philadelphia Chapter will meet on September 13, at 7:30 P.M., at 438 Market Street. At the last meeting a talk was given on the new metal tubes, and a movie was shown.

SPECIAL PROGRAMS

A phonograph recording made by the members of the London, England, Chapter will be broadcast from station W2XAF on Tuesday, September 17th, at 5:45 P.M., according to Mr. Bear of London.

Station HJ1ABD, Cartagena, Colombia, on 41.20 meters, or 7.28 mc., will broadcast a special program for members on Thursday, September 26th beginning at 8:00 P.M.

FOR SALE—Scott XV, 1935 Receiver, all-wave, about three months. old. Absolutely like new, \$125.00. J. T. Keeley, Box 450, Bellport, N. Y.

FOR SALE—Scott All-Wave XV, complete with Regent cabinet, seal unbroken, chassis perfect condition, used only one year. Make offer. Raymond Miller, 1512 Arrott St., Philadelphia, Pa.

AARLUND

CH-SOO TRANSMITTER CHOKE

For CHOKE EFFICIENCY

Rely on HAMMARLUND

THE Hammarlund "CH-500" Heavy-Duty Transmitter Choke delivers its highest useful impedence (more than 500,000 ohms) in the 20, 40, 80 and 160-meter amateur bands. Inductance 2.5 mh. Distributed capacity less than 1.5 mmf. DC resisance 8 ohms. Maximum recommended DC (continuous) 500 ma. Isolantite core, with no metal through center. Mounts with a single machine screw, with brackets removed. \$1.75 each.

The Hammarlund "CH-X" R. F. Choke is the smallest and lightest made. Its features are exclusive.



CH-X R. F. CHOKE

Only $\frac{1}{2}$ " x $\frac{1}{2}$ ", it is small enough for restricted space and so light that the tinned copper leads are ample support. Leads extend straight from the end caps. This makes for neater wiring.

Tinned copper end caps are small, thin and so spaced that distributed capacity to adjacent coils is at a minimum. Five mosture-proof, lattice-wound pies of high impedance. Inductance 2.1 mh. Carries 125 ma. Isolantite core. Priced so low it can be used generously wherever R. F. filtering is desirable—such a detector plate circuits, all B+ leads, grid leads, etc. Only 75c each.

Write Dept. IC-9 for Catalog.

Hammarlund Manufacturing Co. 424-438 W. 33rd St., New York

EXTRA! PRICES REDUCED TO HELP YOU WIN THE ISWC CONTEST!!!

NOW YOU CAN HAVE A COMPLETE PHONE LISTENING OUTFIT (for ANY receiver that has no phone jack) for LESS THAN...... With Trimm Featherweight phones for less than \$10.00.

SPECIAL COMBINATION OFFER No. 1. The SPECIAL Combination Offer No. 2. "Missing Link" PHONE RECEPTOR, a pair of ACME phones and a special plug to \$4.98 take from 1 to 4 pair of phones....



No tampering with wiring to install in one minute without tools Inserting phone jack automatically silences speaker Five foot cable makes it a phone jack at your fingertips Needs but a fraction of volume used for loud-speaker Helps to identify stations heard faintly on the speaker. Ideal for the "HARD-OF-HEAR-ING." Shipping weight, 1 lb. List Price \$6.75; YOUR PRICE....



TRIMM 4 ounce Featherweight PHONES

The Lightest Weight Phones Made

ACME PHONES, 2000 ohm, sturdily made, sensitive, your special price, net ...\$1.25

| | PLUG, for single pair | 15c |
|--------|-----------------------|-----|
| phones | | 100 |
| | PLUG, will take from | 29 |

The "Missing Link PHONE RECEP-TOR, a pair of TRIMM FEATHER-WEIGHT 4 ounce phones and a special plug to take from one to four pairs of phones

BEAT-NOTE OSCILLATOR



BEAT NOTE OSCILLATOR is the most IDEAL STATION LOC-ATOR. Our No. 756 is electron coupled, of same type as that used in most expensive Custom Built receivers. Snapping a toggle switch is the entire operation

Uses one tube powered from receiver.
WILL PICK UP FOR YOU EVERY
STATION THAT YOUR RECEIVER
IS CAPABLE OF BRINGING IN.
NO MISSING OR SKIPPING. Mention receiver when ordering. Snipping weight, 2 lbs. List price \$11.25, Your net price. \$6.75

The Reception-Killing Electric Power Line Noises

Are easily suppressed by our "DOUBLE SECTION" AMPLI-LINE FIL. One section is designed to surpress the noises on the high frequency end of the line, the other on the low frequency end.

When inserted between the radio receiver and electric outlet socket or between any noise producing equipment (vacuum cleaners, motors, electric fans, refrigerators, etc.) and the electric outlet socket, it will suppress the List price \$6.75. Your net price \$3.75

CONSULTING ENGINEER ON LO ANTENNA PROBLEMS TO LYNCHO THE NEW YORK CHAPTER OF THE CLUB