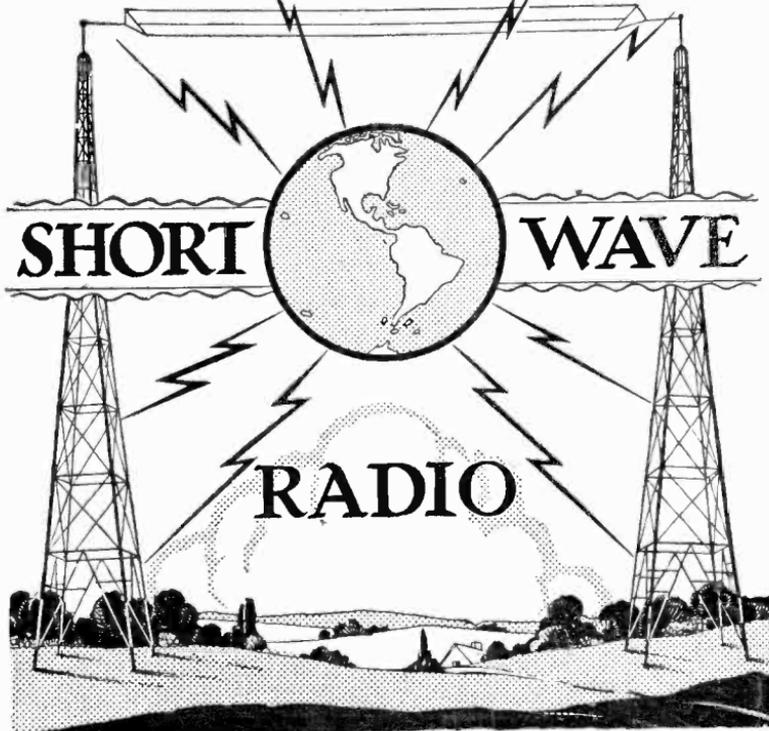


# INTERNATIONAL



- 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.

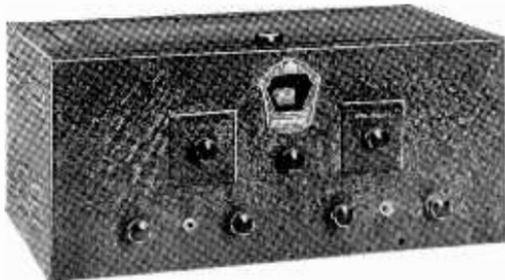
### MEMBERSHIP CONTEST STARTS

We are very happy to announce that short wave fans are being presented with an opportunity of winning some very valuable awards in a membership contest which starts this month. We have arranged to give some person one of these world-famous Postal 1934 All-Wave International receivers, including tubes, cabinet and all drawer coils from 14 to 540 meters. There are other awards, too. Enough to make any short wave listener want to get into the contest and help our organization grow.

The contest will start on the first day of the present month, (June) and all memberships received from that date until the official closing date will be counted. The contest will be closed to members in the United States and Canada at Midnight, January 1, 1934, and to all others at Midnight, January 15. All letters must be in our hands by Midnight of those dates to count.

Our last membership contest was won by a member in Puerto Rico, who was given a close chase by a member in Colombia. Which only goes to show that members do not have to live in the United States, or in a large city, either, to win. Everything depends on entering the contest and how hard you work.

A list of the awards are given here: First award is a Postal International with tubes, cabinet and drawer coils. Second award is a dynamic speaker. Third award is one 12-inch geographical globe. Fourth award is a 12-inch globe of the world. Fifth award is a set of Baldwin headphones.

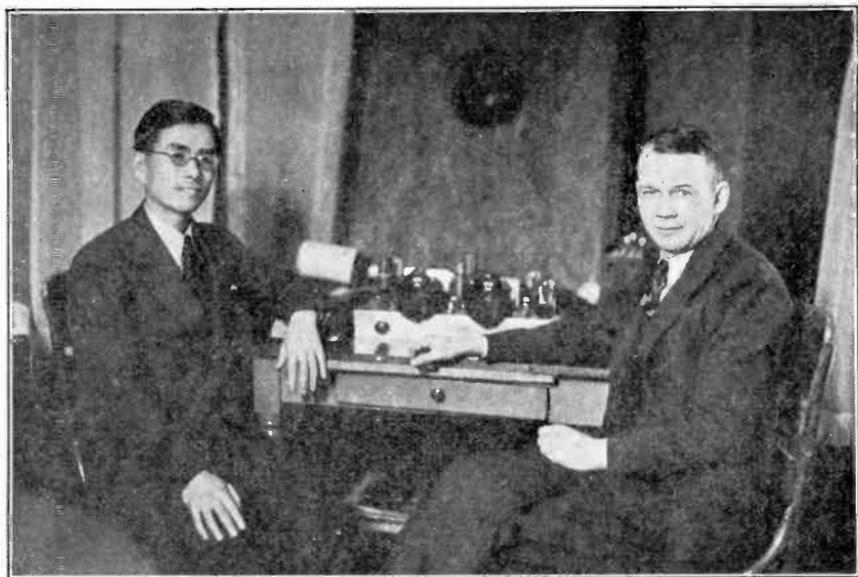


The Postal International, a nine-tube super-heterodyne receiver, which is given as first award in the membership contest.

The rules of the contest are as follows:

1. Any person, with the exception of officers of the I.S.W.C., their relatives, and subscription agents, may enter the contest.
2. Each membership sent in by the contestant and each membership received where the new member mentions the contestant, will be counted.
3. Renewals less than three months expired will not count.
4. Contestants can not have their credits transferred to another once they have entered the contest themselves.
5. All memberships for contestants in the U.S.A. and Canada must reach us before Midnight, January 1, 1935. All others before Midnight, January 15, 1934.

Winners will be announced in the February issue of the magazine and awards will be shipped immediately at the end of the contest. Standings of the contestants will be published at reasonable times. Records will be kept at headquarters and all complaints regarding errors in the standing should be sent to us as soon as possible after the standings are



Hidewo Kikutani

J. R. McAllister

This photograph was taken recently when Mr. Hidewo Kikutani, chief radio engineer of Station J1AA, Japan, paid a visit to the United States. Here he is shown with Club-Member J. R. McAllister of Struthers, Ohio, one of the three original members of the International Short Wave Club, when it was started back in 1929. Mr. McAllister uses a home-made receiver, which is shown in the photograph. Most every short wave listener knows of Mr. McAllister, for he has been "tuning-em-in" for many years. Our good friend Mr. Kikutani is also very well known to most short wave fans, both over the air and through his letters to listeners.

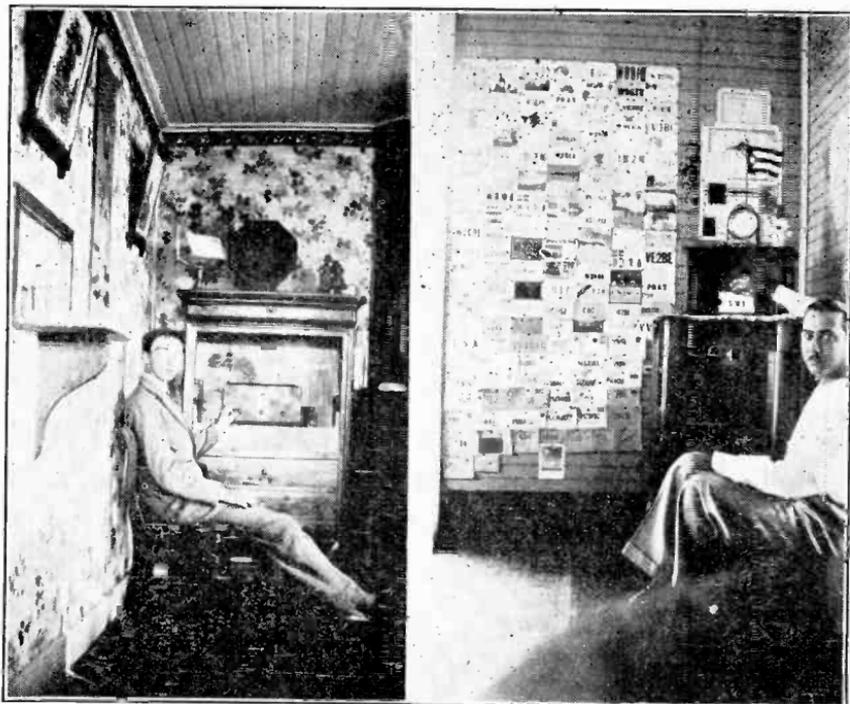
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announced. We expect no difficulty, but are preparing for it just the same, in order that every contestant will be satisfied.

The awards are certainly worth trying for, and we expect quite a few to participate. Remember that as long as you do not try, you will not get anywhere.

#### A TIP

Most everyone would get some satisfaction out of tuning for the amateur phone stations on 21 meters these days. They are being heard from all over the world and since many of these are low-powered stations, they are very interesting. At present they seem to be coming in best from about 4:00 until 8:00 P.M. Try on 21 meters or 14.11 megacycles.



R. Bartlett

Raymond Marti

Here we are with two members, one from Puerto Rico and the other from the island of St. Pierre. Mr. R. Bartlett, who is shown on the left, lives in St. Pierre, a little island in the St. Lawrence river. He joined the I.S.W.C. way back in June of 1932 and has taken a very active part in our work since that time. His reports have been found in most every issue of our magazine. Raymond Marti, shown on the right, lives down in Santurce, Puerto Rico. He joined us in October 1932, and has taken an active part in sending in news and also in getting new members for us. Members most everywhere will be glad to see these photographs for they have been requested by several members.

### PEN-PALS

The following members would like to correspond with others:

J. Chrystal, Arend Petroleum Mij, Oranjestad, Aruba, D.W.I.  
 Edward E. Hatch, 5508 North Mascher St., Philadelphia, Pa.  
 August Nickel, 837 Van Duzer St., Staten Island, New York.  
 George Koch, 214 Park Place, Brooklyn, N. Y.



### CAPTAIN ROSS AT EAQ

Here is a photograph taken in the studios of station EAQ Madrid, Spain, and it shows Club-Member Captain Ross of Madrid before the microphone. Captain Ross has taken a great interest in the I.S.W.C. since he joined us and many members in Spain owe their introduction to the club to him. In the group with him are several other members of the I.S.W.C., also some newspaper reporters and some of the staff of EAQ. The gentleman in white is Mr. Southgate, Assistant Secretary of State and U. S. Delegate to the International Radio Conference.

### SPECIAL BROADCAST

A special program will be broadcast for members of this organization on July 1 from station EAQ, Madrid, Spain, one of the best-known stations in the world. This program will take place on 30.40 meters or 9.87 megacycles from 6:00 to 6:30 P.M., E.S.T., Sunday, July first. This equals 2300 to 2330 G.M.T., Sunday, July 1. The program will come from London but will be broadcast over EAQ in Madrid. Mr. Arthur E. Bear, 10 St. Mary's Place, Rotherhithe, London, S. E. 16, England, the I.S.W.C. representative, arranged the program and requests that reports be sent to him.

## 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 correct 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 EXPERIMENTAL STATIONS

#### Little America

Station KFZ, operated by the Byrd Expedition at Little America is being heard quite well in the United States by many members, as well as in other parts of the world. They test each Thursday and Friday now at 8:15 P.M., with stations LSX, Argentina, and WEF, New York. They were broadcasting each Saturday night also, but we are told that hereafter they will be relayed over a chain of stations each Wednesday from 9:00 to 9:30 P.M. instead of Saturday. This information comes from members Thomas Van Meter, Bridgeton, New Jersey, and Fred Karpen, Johnstown, Pa.

KFZ works on the following waves and frequencies. The first number designates the channel, the second is meters and the third is megacycles. 1—45.11 (6.65); 2—45.05 (6.60); 3—44.98 (6.67); 4—34.01 (8.82); 5—33.94 (8.84); 6—31.57 (9.52); 7—25.36 (11.83); 8—22.76 (13.18); 9—22.73 (13.20); 10—22.68 (13.23); 11—22.66 (13.24); 12—22.62 (13.26); 13—16.65 (15.27); 14—17.04 (17.60); 15—17.03 (17.62); 16—13.94 (21.52); 17—13.89 (21.60); 18—13.87 (21.63).

Of late this station has been using waves near 34, 31 and 25 meters, as these seem to be the most satisfactory. Robert Woods of Sand Springs, Oklahoma says they are getting two more frequencies, 9,100 and 2,900 kc.

#### KNRA News

Station KNRA on the Seth Parker seems to be in difficulty, since they have no sponsor now. A program is being broadcast once in awhile on

Sunday night from about 10:30 to 11:00 P.M. They also were heard making a date with WEF for tests on Thursdays at 8:00 P.M. Nelson Bell of Wellesley, Mass., reports them on 49.2 meters and 33.78 meters (6010 and 8880 kc.). W. E. Gibbs reports them on 31.58 meters, a new one to us. He lives in Camden, New Jersey. Carroll Foltz of North Baltimore, Ohio, tells us they have added the following new waves. 48.70 (6,160); 36.45 (8,230), and 24.30 (12,345). They were assigned the same waves and frequencies as those shown above for station KPZ at first. We are told they are now heading for the Panama Canal. We have also received helpful news from L. S. Prettyman, Chicago, Illinois, and J. A. Shanks, Russellville, Tenn., on this station.

James Pickering of Hightstown, N. J., and Robert Woods of Sand Springs, Oklahoma, tell us that the Seth Parker now carries a station WIOXG which operates on 62.55 meters or 4,797 kc.

## EUROPEAN STATIONS

### PHI Returns to 16.88

Station PHI at Huizen, Holland, has returned to 16.88 meters for the summer months. The schedule calls for broadcasts each Monday, Thursday and Friday from 7:30 to 9:30 A.M. and Saturdays and Sundays from 7:30 to 10:00 A.M. However, we are told that on Sundays they are heard from 8:00 until 11:30 A.M. instead. Reports have come from the following members: J. E. Brooks, Montgomery, Ala.; Stuart B. Fuller, Providence, R. I.; John A. Shanks, Russellville, Tenn.; Fred Karpen, Johnstown, Pa.; A. B. Baadsgaard, Ponoka, Alta.; Francis A. Beane, Ridgewell, England.

### The German Stations

We do not know what to make of the short wave broadcast stations at Zeesen, for they are sending out two or three different schedules and are keeping an irregular one. One letter they send says they are on the air as follows: DJB on 19.73 from 7:45 to 9:45 A.M.; DJD on 25.51 and DJC on 49.83 meters from 9:00 until 11:30 P.M.; DJA on 31.38 meters from 12:50 to 4:30 P.M.; DJB from 12:35 to 2:00 A.M. and DJA from 6:45 to 9:45 A.M. Another says they use DJA from 6:45 to 11:00 A.M. and 5:00 to 8:00 P.M. and DJB from 12:35 to 2:00 A.M. and 7:45 to 11:00 P.M. The first came from Manuel de Torres, New York City, and the second from Myron Reamy, Yonkers, N. Y. Howard Eck of Lansing, Michigan, reports DJC from 6:00 to 9:00 P.M. Nick Gaug of New York City reports DJC and DJD announcing their schedule as 9:30 P.M. until Midnight, and 9:30 A.M. to Noon. Several others report hearing DJD earlier than the schedule calls for, some as early as 6:30 P.M. They are Edward Lips, Pittsburg, Pa.; Fred Karpen, Johnstown, Pa.; Robert Woods, Sand Springs, Okla.; John Shanks, Russellville, Tenn.; and William Neal, Southington, Conn.

H. S. Bradley of Hamilton, N. Y., reports the station on 20.46 last month was DSD and not DFD. Fred Karpen of Johnstown, Pa., reports

DGC or DGD on 29.02 meters working with Rocky Point at 6:00 P.M. R. Lawton of Manchester, England, reports a DFL on 27.65 meters and DFD on 2.45 phoning Tokio, Japan, at 4:30 A.M. He also reports DFB on 17.12 and DFL working Manila at 7:10 A.M. Also a DFC on 23.19 meters working Egypt at 3:30 P.M. Howard Eck, Lansing, Michigan, says that DJE is mentioned as a broadcasting station on 16.89 meters now, by the owners. One other member reported DFC on 23.10 at 8:30 A.M., but we missed his name. DGU on 31.08 meters was broadcasting a program of music and a speech by Hitler from 4:00 to 5:00 P.M. once by Edward Houlgate, London, Ontario. DGU was working SUV, Cairo, at 2:00 P.M. according to Henry Shaw, Cape May, N. J.

DAF on 24.2 meters was broadcasting music to the S. S. Bremen at 7:30 A.M., reports Clement Van Velsor, Irvington, N. J. H. S. Bradley says DAF moved to 23.5 meters and works ships early mornings, and a letter from the station says it is 24.19 according to Myron Reamy of Yonkers, N. Y.

### CT1AA Heard Again

Station CT1AA at Lisbon, Portugal, is back on the air after overhauling. They are on 31.25 meters on Tuesdays and Fridays from 4:30 to 7:00 P.M. again, using three cuckoo calls to identify itself from other stations. It is reported by D. R. D. Everard, Standon, England; Myron Reamy, Yonkers, N. Y.; Samuel Sternberg, Far Rockaway, N. Y.; Robert Base, Baltimore, Md.; Manuel Unhao, Peabody, Mass.; Carroll C. Foltz, North Baltimore, Ohio; James Brown, Lorado, Texas; H. E. Mack, New York City, N. Y.

### The British Stations

The latest schedule available on the stations at Daventry, England, comes direct from the operators through Arthur Rear, London.

11:30 P.M. to 12:30 A.M.; GSB on 31.55 and GSD on 25.53 meters.  
 12:30 A.M. to 1:30 A.M.; GSA on 49.59 and GSD on 25.53 meters  
 6:00 A.M. to 8:30 A.M.; GSH on 13.97 and GSG on 16.86 meters  
 8:45 A.M. to 11:00 A.M.; FSF on 19.82 and GSE on 25.28 meters  
 11:00 A.M. to 12:45 P.M.; GSE on 25.28 and GSB on 31.55 meters  
 1:00 P.M. to 5:30 P.M.; GSD on 25.53 and GSB on 31.55 meters  
 6:00 P.M. to 8:00 P.M.; GSD on 25.53 and GSC on 31.30 meters

### The French Stations

The stations at Pontoise are all mixed up somehow, as you hear them on one schedule one day and on another the next. As near as we can get it, here is the present schedule: On 19.68 meters from 7:30 to 11:00 A.M. On 25.20 meters from 11:15 to about 6:00 P.M. On 25.60 meters from 2:15 to 6:00 P.M.; 6:15 to 8:00 P.M. and 9:00 P.M. until Midnight. They broadcast and the schedule each day at 8:00 to 8:15 P.M. in English.

### EAQ to Alter Schedule Soon

The latest reports on EAQ, Madrid, Spain, 30.40 meters or 8.98 megacycles, says they will change their schedule soon and will broadcast special late programs in English from 7:00 to 7:30 P.M. on Tuesdays,

Thursdays and Saturdays, in addition to their regular schedule of 5:10 to 7:00 P.M. daily. One thing more we have discovered. Whether their cards say they are on 30 meters and are on the air Saturdays from 1:00 to 3:00 P.M., they really are on 30.40 meters and are on the air from Noon to 2:00 P.M., Saturdays. Nick Gaug, New York City; Dixon Russell, Baltimore, Md.; R. D. Everard, Standon, England, and W. Neal, Southington, Conn., all say this is true. Mr. Everard reports them sending a special program to New York one Wednesday from 3:00 to 3:30 P.M. James Pickering, Hightstown, New Jersey, reports them one Sunday at 1:30 P.M. Edwin S. Banta of Philadelphia, reports the new schedule of EAQ. One member also says he hears EAQ on both 30.40 and 33.41 meters every day, but this must be some peculiar thing, as they are not supposed to be on 33.41 meters.

#### The Italians

Station 2RO at Rome, like many others these days, has also been doing some odd things. They are coming on the air any time after 10:00 A.M. and leaving the air any time between 4:30 and 6:00 P.M. IRM on 30.52 has been relaying 2RO in the afternoons irregularly from about 2:00 to 5:00 P.M., although R. Lawton of Manchester, England, says it is IRS on 30.1 meters he is hearing. The station verified as IRM on 30.52 meters to many listeners. Howard Eck of Lansing, Michigan, reports IAC, Piza, Italy, sending music at 3:55 P.M. once.

#### The Russians

Station RNE is the most interesting Russian station now. It is on 25.00 meters and has been heard during the past month on Saturdays and Sundays from about 9:00 to 10:30 A.M. Several times, station RKI, Moscow, on 23.95 meters was heard along with RNE. Reports on this have come from J. W. Tyler, New Woodstock, N. Y.; Frank Grey, Berwyn, Illinois; Henry Shaw, Cape May, N. J.; A. J. Leonhardt, Brooklyn, N. Y.;

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R. Bartlett, St. Pierce; Myron Reamy, Yonkers, N. Y.; Fred Karpen, Johnstown, Pa.; Mitchell Kohn, Cleveland, Ohio; Howard Eck, Lansing, Michigan; R. D. Everard, Standon, England. Another station at Moscow on 22 meters is reported by Francis Beane, Ridgewell, England, at 6:00 A.M. broadcasting. James Brown of Laredo, Texas, reports RNE between 8:00 and 9:00 P.M. on Saturday nights.

Mr. Brown and Emmett G. Riggle, Massillon, Ohio, reports letters from Russia, saying RNE is used three times on Sunday or in E.S.T. from 10:00 to 11:00 P.M. Saturday night; 6 to 7 A.M. and 10 to 11 A.M. Sunday mornings.

The phones RKI, Moscow, on 19.95 meters and RAU, Tashkent, on 19.85 meters are heard at 3:00 A.M. according to R. Lawton of Manchester, England, while many Americans report hearing them between 5:00 and 7:00 A.M. almost daily.

#### Letter from ORK

Myron Reamy of Yonkers, N. Y., reports a letter from station ORK, Belgium, saying "It is foreseen that regular radio broadcasts will be made from approximately 1845 to 2015 GMT." (This is 1:45 to 3:15 P.M., E.S.T.) ORK is on 29.04 meters but we wonder if they really mean broadcast or just phone work. Albert Emerson of Cleveland, Ohio, reports them from 3:00 to 4:15 P.M. phoning.

#### Error Last Month

We mentioned a station LCO and LA1G, Norway, last month and said it was on 31.45 meters. What we meant was 21.45 meters. One member reported hearing this LCO daily from 1:30 to 3:30 P.M. broadcasting.

#### FXI Reported

Samuel Sternberg of Far Rockaway, N. Y.; reports a letter from a station FXI, Rue Fakry Bey, Boite Postale 86, Beyrouth, Republic of Lebanon, saying they are on 9,090 kc. or 33.00 meters working Liban, Syria, Palestine, and others.

#### LCL Moves to New Wavelengths

Station LCL at Jeloy, Norway, has moved to 48.94 meters or 6,130 kc. They are also testing on 31.45 meters or 9,540 kc. They are on the air most every day from 11:00 A.M. to 5:00 P.M. This information comes from Warren Reichardt of Reading, Mass.; R. Lawton, Manchester, Eng.; Francis A. Beane, Ridgewell, England, and R. D. Everard, Standon, Eng. Mr. Reichardt got his information from a letter received from L'administration des Telegraphs de Norvege, Oslo, Norway.. Mr. Reichardt tells us they will also test on 60.98 and 73.17 meters soon.

#### Geneva Stations Alter Schedule

The station at Geneva, HBP, on 38.47 meters and HBL on 31.27 meters are heard now five nights each week. They announced they would be heard five nights each week during May, and we do not know if this will continue after June first or not. The time is 5:30 to 6:15 P.M. each day. The five days are not yet ascertained, but they are reported on Mondays,

Wednesdays, Thursdays, Saturdays, and Sundays, so these must be the days. Reports have come from J. B. L. Hinds, Yonkers, N. Y.; Dominic Lorenzini, Minotola, N. J.; John Oskay, Piscatawaytown, N. J.; Norman Weiler, Flemington, N. J.; Dr. R. C. Kash, Knoxville, Tenn.; August Nickel, Staten Island, N. Y.; Samuel Sternberg, Far Rockaway, N. Y.; Dixon Russell, Baltimore, Md.; R. D. Everard, Standon, England; Mitchell Kohn, Cleveland, Ohio; Arthur Bruder, Allston, Mass.; Fred Karpen, Johnstown, Pa.; Fred Keller, Philadelphia, Pa.; Walter Jasiorkowski, Milwaukee, Wisconsin; Carroll Foltz, North Baltimore, Ohio; W. J. Tyler, New Woodstock, N. Y.

### SPISI

Joseph Hopfenberg of New York City writes us saying that he has a letter from Poland saying the only official SW station there is conducted by the Marszalka Pilewski First Cadet Corp in the city of Lvov. The call is SPISI and they are on 47.8 meters or 6,272 kc. from 8:00 to 9:30 A.M. week days and 4:00 to 5:30 A.M. Sundays and Holidays. Mr. Hopfenberg got his information direct from Poland, but we can find no Lvov on the map, but do find a Lwow and the first cadet corp there operates amateur station SP1FI. So it looks like his information is wrong somehow. We thank him just the same.

### HVJ Testing

Station HVJ at the Vatican is heard most every Saturday from 10:00 to 10:30 A.M. now broadcasting and calling Buenos Aires, Madrid, and other places. This is on 19.84 meters. They have a regular schedule besides this but this is the one heard in America. We thank the following for reports: R. Lawton, Manchester, England; R. D. Everard, Standon, England; Walter Jasiorkowski, Milwaukee, Wisconsin.

**FREE SHORT WAVE BOOK**

**"EIGHT METHODS FOR IMPROVING S-W RECEPTION"**

*Can You Answer these Questions?*

1. How can you increase the signal strength of weak foreign stations?
2. How can you increase the D. X. range of your present SW set?
3. How can you decrease the background noise of your set?
4. What will increase the selectivity of your receiver?
5. What is image frequency?
6. How can you match your aerial to your set?

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**FREE SHORT WAVE BOOK**

**"EIGHT METHODS FOR IMPROVING S-W RECEPTION"**

*Can You Answer these Questions?*

7. What is signal to noise ratio?
8. How can you get the most out of short waves?

Send for free booklet "8 methods for improving short wave reception." It gives all the correct answers as well as additional valuable information for the short wave fan.

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NEW YORK, N. Y.

## ASIATIC STATIONS

### VK3LR Information

Although Australia is not in Asia, we mention it here. Station VK3LR, Australia, on 31.31 meters or 9,580 kc. has been reported now by many members. This station is on the air daily excepting Sundays from 6:15 to 10:30 P.M., Melbourne time, or 3:15 to 7:30 A.M., E.S.T. Several members have letters from the station now. They say the station is at Lyndhurst, 25 miles from Melbourne. Letters have come from J. M. Martin, Senior Radio Inspector, Wireless Branch, Postmaster Generals Department, Melbourne, C2, Australia. And we wish to thank the following for helpful information. Albert Leonhardt, Brooklyn, N. Y.; and Patrick Circuit, Hastings, New Zealand.

### The Japanese

Station J1AA on 38.07 meters is broadcasting daily from 5:00 to 7:40 A.M. From 5:00 to 5:15 A.M. they use English. Many members are hearing this station now. Helpful reports have come from Thomas Van Auken, Livingston, Texas; James Brown, Laredo, Texas; A. B. Baadsgaard, Ponoka, Alta.; and Fred Karpen, Johnstown, Pa. Francis A. Beane of Ridgewell, England, has a letter saying J1AA is on 30.49 meters or 9,840 kc., which is slightly different than we have them listed. Frank Grey, Berwyn, Illinois, reports J1AA on 30.40 meters one morning broadcasting, near 10:00 A.M.

There are so many of these Japanese phones now on the air, using different call-signs when working different stations, that we are not able to keep them listed. Here are some reports on them. A. B. Baadsgaard, Ponoka, Alta., reports a JVQ on 7,470 kc. or 40.16 meters from 7:30 to 8:10 A.M. Thomas Van Auken of Livingston, Texas, reports JVE on 15,666 kc. or 19.15 meters from 8:30 P.M. until Midnight. Mr. A. B. Baadsgaard also reports a station on 40 meters, relaying J1AA, and two others on 28.4 and 25.6 meters, both in Japan, working each other at 8:25 A.M. daily. Rex Wells, Roscoe, California, reports stations on 52.00 meters (5,765 kc.); 51.48 meters (5,825) from 5:00 to 8:25 A.M.; on 50.93 meters (5,890) and 59.80 meters (5,012) from 7:00 to 8:45 A.M. and on 52.36 meters (5,730) from 7:22 to 8:00 A.M.

A station JVM, JZM, or JZN, or some such call, is reported by several. It is on 10,740 kc. or 27.93 meters. Some say it is at Nagaya and others say at Nagasaki. It was heard at 10:00 P.M. by H. L. Harris, Jr., Pacific Grove, California, also at 11:00 A.M. to Midnight, and at 6:00 A.M. by John A. Shanks, Russellville, Tenn., and John Balderson, Beverly Hills, California. Patrick Circuit of Hastings, New Zealand, writes that he has a letter saying that J1AA now uses the call JYK on 22.04 meters or 13,610 kc. and JYS on 30.49 meters or 9,840 kc. Fred Karpen of Johnstown, Pa., reports a JYT on 19.03 meters working KWU from 6:00 to 8:00 P.M.

### XGW News

Emmett Riggle of Massillon, Ohio, reports XGW, Shanghai, China, on 28.79 meters at 6:00 A.M. while Frank Grey of Berwyn, Illinois, reports it from 5:30 to 7:00 A.M. H. S. Bradley of Hamilton, N. Y., has a letter

from the Chinese Radio Administration saying XGW is on 28.79 meters working telephone tests with Manila and XGR is on 26.00 meters.

### The Javanese Stations

Here are some reports on the Javanese stations. PLE on 15.93 meters is reported Sunday afternoon at 7:30 P.M. by Stuart Walmsley, Los Angeles, California. R. Lawton and R. D. Everard, both of England, report it working PCV, Holland, at 6:40 to 7:00 A.M. Henry L. Harris, Jr. of Pacific Grove, California, says it works Tokio around 7:30 to 8:00 P. M.

Mr. R. Lawton of Manchester, England, reports a PLT on 16.10 meters sending music to Amsterdam, Holland, from 6:00 to 8:30 A.M. PLV on 31.86 meters works station PDV, Holland, on 24.88 meters daily at 9:00 A.M. according to Howard Eck, Lansing, Michigan.

PK1WK is reported broadcasting on 49.02 meters from 3:00 to 7:00 A.M. daily by Stuart Walmsley, Los Angeles, California, and John Pepin of Maylands, West Australia, tells us it is on 49.5 meters from 4:15 to 6:30 A.M. and 6:45 to 7:30 P.M. F. L. Stitzinger of Erie, Pa., has a letter from them saying they are no longer on 49.02 meters but on either 85.96 meters or 35.96 meters. The first figure is blurred on the letter and we can not tell if it is a three or an eight.

### CQN Again

Many members are asking why it is a certain writer claims to have a verification from CQN, China, when they sent in a report on the same program and was told that CQN was not on the air on Sundays. That was not CQN, but instead was HIX. There is nothing personal in these comments, we are merely trying to give our readers the news. Long before this writer claimed he was hearing CQN on Sundays we had reports from Spanish-speaking members reporting this station as HIX. HIX had verified many of these reports. Because this writer now claims to have a verification does not mean a thing. We know he uses his job to get letters from stations which he calls verifications. We have seen some of his letters to stations re-printed here and there in magazines and papers which come in to us. In such "reports" he promises them publicity in return for information on the station. Then, he calls these letters verifications. Many members have letters now from CQN saying they did not broadcast on Sundays. In this writer's article on the station he did not tell what the schedule of CQN was before March twelve, as this would show up. At present this station works on 49.8 meters from 7:00 to 9:00 A.M. on Mondays and Fridays only. Previous to March 12 they worked Mondays, Wednesdays, and Fridays from 8:00 to 10:00 A.M. and did not broadcast on Sundays. This is written simply to give readers the facts on this station. The station broadcasting a lottery on Sunday morning is HIX and not CQN regardless of what this writer tells you.

### KAZ Phones KWU

Station KAZ, Manila, is working KWU, California, now near 10:30 and 11:00 A.M. according to H. L. Harris, Jr., Pacific Grove, California. KAZ is on 30.03 meters.

### ZHI News

R. Lawton of Whitefield, England, sends a copy of a letter he received from L. Newton, Chief Engineer of Radio Service Company of Malaya, Ltd., Broadcast House, 2 Orchard Road, Singapore, owners of station ZHI. It says ZHI is on 49.9 meters and operates Mondays, Wednesdays and Thursdays from 5:40 to 8:10 A.M.; Saturdays from 12:10 to 1:10 A.M.; Sundays from 10:40 P.M. to 1:10 A.M. and each second and fourth Sunday of the month from 5:10 to 7:00 A.M.

## CENTRAL AMERICANS

### Mystery

Some time ago someone reported a station in Costa Rica on 44 meters. We thought it was the owner of TI4NRH talking over YNCRG, Managua, and having some fun. However, John A. Shanks of Russellville, now has a letter from station TIGPH, Costa Rica. The card says that the call T1 is assigned the country and GPH are initials of the owner, Gonzales Pinto H. Along comes H. S. Bradley of Hamilton, New York, with a letter from TIEP, San Jose, Costa Rica, in which they say they were the station, and the call sign is taken from the initials of the owner Edward Pinto. Now what? Does each person who answers use their own initials? Anyhow the letter says they are now on 52.5 meters daily from 9:00 to 11:00 A.M.; Noon to 3:00 P.M.; 7 to 11 P.M. and the address is P. O. Box 257, San Jose. Now, who was on 44.5 meters, we want to know.

### The Costa Ricans

We haven't received one report on TI4NRH since the owner went back to Heredia, so we took them off our list. It has been seven months, or close, since we last had a report on this station. In regards to this station on 44.5 meters mentioned above, many members said they thought it was in Managua. At first the owner of TI4NRH said there was no short wave station in Nicaragua excepting YNCRG, but now he says that a Moises Le France in Managua had a station with 50 watts power on short waves for a while. This comes to us from Joseph B. Sessions of Bristol, Conn. Really, we do not know what to make of all this.

TIR and TIU, Cartago, Costa Rico, is one and the same station. It appears as though they use different calls when working different stations. They are on 20.69 meters or 14,500 kc. We have reports from H. S. Bradley, Hamilton, N. Y., and W. Wallace, Easton, Pa.

### TGF Working Mexico

H. S. Bradley reports TGF, Guatemala City, on 14,485 kc. working XDR, Mexico City, at 1:00 P.M.

## WEST INDIAN STATIONS

### ZFB or ZFD

Here is something odd. Many members reported station ZFD, St.

Georges, Bermuda, on 29.03 meters broadcasting a special program last month. ZFB on 29.83 meters was used for phone work at the time. Many wrote and when their verifications came it stated that the station was ZFB. These came from the Bermuda Trade Development Board, Hamilton. Such letters have been received by Edward Lips, Pittsburg, Pa.; August Nickel, Staten Island, N. Y.; Nick Gaug, New York City, and H. E. Mack, New York City.

#### COC, Havana, Cuba

R. Lawton of Manchester, England, reports a letter from station COC, Havana, Cuba, saying they are on 49.96 meters now from 9:30 to 11:00 A.M. and 4:00 to 5:30 P.M.

#### Those Dominican Stations

Myron D. Reamy of Yonkers, N. Y., reports a letter from HILA, P. O. Box 423, Santiago de los Caballeros, Republic of Dominicana, saying they are on 47.80 meters or 6,272 kc. daily from 11:40 A.M. to 1:40 P.M. and daily 12:10 to 1:40 P.M. and 7:50 to 9:40 P.M. and Sundays only from 7:40 to 9:40 P.M. James Brown of Laredo, Texas, reports one saying 1:40 to 4:40 P.M. Henry Herman of Washington, D. C., reports them once at 12:15 A.M. George Lilley of West Chester, Pa., reports them signing off one night at 6:00 P.M. and they were on 48.3 instead of 47.8 meters. This station is the one playing "Anchors Aweigh" at the beginning and end of each program.

HIX at Santo Domingo, has moved from 49.5 meters up to about 49.8 meters according to some reports. One member, Fred Heller, Jr., tells us that it is HIR on 49.8 and HIX is still on 49.5 meters but we have only this one report to that effect.

### NORTH AMERICAN STATIONS

#### The Canadians

The station at Winnipeg is using the call-sign CJRX again after all. A letter from the chief engineer tells us he read the note in our last issue and asks us to announce that CJRX was the first short wave station in Canada and out of respect for this, they have been granted the courtesy call. He also says that at present this station is used on 25.65 meters and that soon a CJRO will start working on 48.85 meters. CJRO was once called VE9CL and CJRX was VE9JR.

Most every report we receive tells us CJRX is not on 25.6 meters but on about 25.4 meters. We wish to thank members Bailey, Hinds, Stitzinger, Bell, Bartlett, Penn, Gaug, Nickel, Kohn, Will, Heller; Jasiorowski; Loury; Peebles, and Harris for their help.

Station VE9HX, Halifax, is on 49.5 instead of 49.10 meters and was heard at 11:00 P.M. by Edward Lips, Pittsburgh, Pa.

Station CFU sends word they are on 52.97 meters and are testing several transmitters. They send stock reports and such things, usually calling CFO and CFN, around 10:00 P.M. We thank Fred Karpen, Johns-

town, Pa.; Henry Herman, Washington, D. C.; Stuart Walmsley, Los Angeles, California.

#### W8XAL Kindness

We must say a good word for station W8XAL, Cincinnati, Ohio. For months they closed down in order to allow short wave fans in America to get GSA. Now that GSA is on a new schedule, they have altered their schedule again to allow listeners to get W3XAU. This shows real sportsmanship, Mr. Chambers, and we believe we express the sentiment of all members in saying "Thanks." At present W8XAL is on 49.5 meters from 6:30 A.M. to 7:00 P.M. and 10:00 P. M. until about 2:00 A.M.

#### W3XAL and W3XL

The present schedule of W3XAL, Bound Brook, New Jersey, is as follows: On 16.87 meters or 17,780 kc., daily from 9:00 A.M. to 3:00 P.M. and on 49.18 meters or 6,100 kc. on Mondays, Wednesdays and Saturdays from 4:00 P.M. until Midnight. This news comes to us from Clinton Gluck, Bound Brook, N. J., and H. J. Davison, Bayamon, P. R.

W3XL on 46.69 meters is testing with KNRA most every Sunday night. It is reported by Howard Eck, Lansing, Michigan; R. Bartlett, St. Pierre Island; John Oskay, Piscatawaytown, N. J.; Mitchell Kohn, Cleveland, Ohio; and Wm. Fieldler, Milwaukee, Wisconsin.

#### W1XAL, Boston

A letter signed by Hollis Baird from station W1XAL, 70 Brookline Avenue, Boston, says that W1XAL is now on 6,040 kc. or 49.67 meters daily from 5:45 to 7:00 P.M. This was received by Harold Seaton, Sevierville, Tenn. Mitchell Kohn of Cleveland, Ohio, reports W1XAL on 25.42 meters between 5:00 and 6:00 P.M. once.

#### W2XAD Now Heard Daily

A. E. Bear of London, England, tells us W2XAD, New York, is on the air daily from 1:00 to 3:00 P.M.

#### W9XAA Schedule Unknown

We do not know the exact schedule of W9XAA and do not believe they attempt to keep one. The chief engineer tells us they expect to re-build the transmitter this summer. A letter to R. Lawton of Manchester, England, says they are on the air Sundays, Tuesdays, Thursdays and Saturdays until 9:00 P.M. but he tells us they are heard until Midnight. Les Chapter of London sends us a somewhat similar report.

#### W4XB Must Be Down

Not a thing has been heard of W4XB, Miami, Florida, for some time and we believe they have left the air again.

### SOUTH AMERICAN STATIONS

#### Those Colombians

HJ5ABD, Cali, on 46.3 meters was sending a test program at Midnight one Wednesday according to Thomas P. Van Meter, Bridgeton, N. J.

HJ1ABB at Barranquilla, just about the most powerful of the Colombians just now is heard to say they are now on the air on 46.51 meters from 7:00 to 9:45 A.M. and 7:30 to 10:00 P.M. daily. Reports John Carr, Bronx, New York.

#### The Venezuelans

Station YV4BSG at Caracas, Venezuela, is getting out quite well these days. They are on 50.00 meters, although they move up and down a bit on different nights. A letter signed by Manuel A. Arres, Sociedad Anonima de Radio, says they are on 6,000 kc. or 50.00 meters with 150 watts from 11:00 A.M. to 12:30 Noon and 4:30 to 10:30 P.M. Clement Van Velsor of Irvington, N. J., is the owner of the letter.

The address of station YV5BMO is apartado 214, Maracaibo, according to letters sent to us. This station, which is known as "echoes of the Caribbean" is on 49.39 meters or 6,070 kc. daily from 5:30 to 11:00 P.M. Letters have come from Samuel Sternerg, Dominic Larenzini and A. Franceschi Cabani of Rio-Caribe, Venezuela. Also John Shanks, Russellville, Tenn.

#### The Brazilians

Station PRA3 uses station PSK on 36.65 meters from 7:00 to 7:30 P.M. most members tell us. Such reports have come within the last few days from Fred Heller, Philadelphia, Pa.; F. L. Stitzinger, Erie, Pa.; John Scheffler, Sedalia, Missouri; W. A. Jasiorkowski, Milwaukee, Wisconsin; H. J. Davison of Bayamon, P. R., tells us he hears them from 7:30 to 8:30 P.M. while last month several others reported them at 8:30 P.M.

The station on 20 meters mentioned last month at Rio de Janeiro, Brazil, is PSE and not PSK according to H. S. Bradley, Hamilton, N. Y.; Fred Karpen of Johnstown, Pa., tells us of hearing this station on 18.90 meters and then on 20.02 meters.

#### Ecuador

Station PRADO at Rio Bamba, Ecuador, has added a half-hour to their schedule in order to acknowledge reports over the air. They are now heard Thursdays from 9:00 to 11:30 P.M. on 45.31 meters. This comes from Melvin Pearce, Montreal, Canada. This station is also reported at 1:30 A.M. broadcasting a special test running from 11:00 P.M. until 1:30 A.M., starting Saturday night. Reports have come from W. J. Tyler, New Woodstock, N. Y.; H. G. Peebles, Detroit, Michigan; James Pickering, Highstown, N. J.; Dr. R. C. Kash, Knoxville, Tenn.; and W. A. Jasiorkowski, Milwaukee, Wisconsin.

HC2RL at Guayaquil is reported on their regular schedule and also at 1:30 A.M. working amateurs by W. J. Tyler, New Woodstock, N. Y. They are on 45.00 meters from 5:45 to 8:00 P.M., Sundays and 9:15 to 11:15 P.M., Tuesdays.

#### CP5, La Paz, Bolivia

Station CP5 is reported by Frank Grey, Berwyn, Illinois, on 19.8 meters at 11:00 A.M. working Madrid, Spain. Fred Karpen of Johnstown, Pa., reports them from 5:00 to 7:00 P.M. on 19.6 sending music. Carleton Lord of Akron, Ohio, reports the call sign changed to CP7 for this wave-

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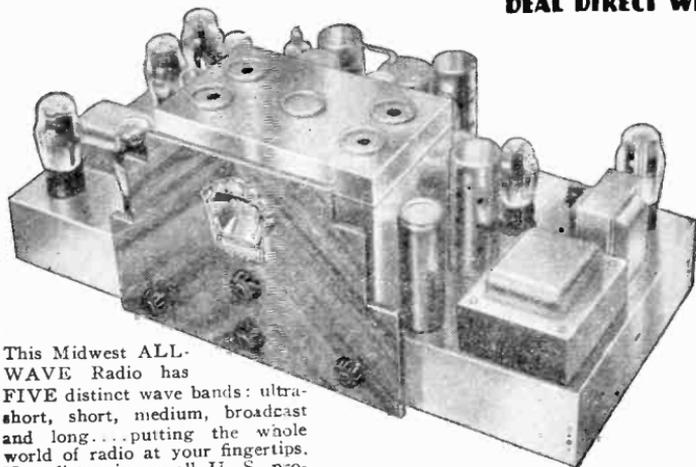
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length. They are usually on 49.34 meters or 6,080 kc. from 7:30 to 10:30 P.M. broadcasting.

#### The Argentines

Station LSX at Buenos Aires, Argentina, on 28.98 meters is heard testing with KFZ and WEF on Thursdays and Fridays at 8:15 P.M. They were also heard testing in the evenings with CEC and CP5. We received close to a hundred reports on this station this month, and can not mention them all. One member, R. Bartlett, says LSX was broadcasting from 7:30 to 8:30 P.M. one Sunday.

Robert Emery Base of Baltimore, Md., reports LSQ on 25.8 meters working CEC at 7:00 P. M. one Friday and LSL on 37.97 was also used. The other Argentine phones seem to be on regular schedule.

### AFRICAN STATIONS

#### ZSB and ZSS

W. Vendy of Leicester, England, has a letter from the Overseas Communications of South Africa, Kodak House, Shortmarket Street, Cape Town, South Africa, saying that ZSB is on 33.5 meters or 8,900 kc. between 1:00 and 1:50 P.M. working phone with England. Station ZSS at Klipheuvell is still on 15.83 meters according to R. D. Everard, Standon, England, and it is heard working England from 6:30 to 7:00 A.M. and 10:00 to 10:40 A.M.

#### EA8AB Closes Down

J. B. L. Hinds of Yonkers, New York, has a letter from station EA8AB, Canary Islands, saying they have closed down and will reopen on a new wavelength where they will have less interference from other stations. They do not say what this will be.

#### CR7AA News

Although we have mentioned CRTAA many times we do not have any proof that it is being heard. Perhaps this is due to the high wavelength used. Warren Reichardt of Reading, Mass., sends us the latest dope on it. They broadcast Mondays, Thursdays and Saturdays from 8:30 to 10:30 P.M. local time, which equals 1:30 to 3:30 P.M., E.S.T. The wave is 84.67 meters. The address is Caixa Postal 183, Laurence Marques, Portugese East Africa.

#### Rabat

The best heard African station is at Rabat, Morocco, and it is on 23.38 meters from 7:30 to 9:00 A.M. and on 37.33 meters from 2:30 to 5:00 P.M. on Sundays only.

### CENTRAL AMERICAN STATIONS

#### XEBT on Short Waves

Perhaps the most interesting news of the month is the arrival of station XEBT of Mexico City. This station relays XEB on a wavelength

of 49.8 meters, although they do move from 49.6 to 50.00 meters. They use cuckoo calls as an identification. Enrique Guerrero, who takes care of the English correspondence of the station writes us to say that they are on 49.9 meters, their address is El Buen Ton, S. A., or Apartado Postal 7944, Mexico City, and that they are on the air most every day from 5:00 P.M. until close down, or about 2:00 A.M.

We have many reports on this station, which shows it is getting out well. Such reports have come from Messrs. Shelhan, Hastings, Recla, Campbell, Stitzinger, Shanks, Kovatch, Cohick, Prettyman, Mack; Norweb; Lips, Clute, Van Auken, Brown, England, O'Brien, Shaw, Bigbee; Reaney; Sternberg, Walmsley, McCroden, Pickering, Penn, Will; Carr; Van Meter; Grey, Nickel, Karpen, Woods, Base, Mathews, Nicholson, Hoffman; Louri; Fiedler, Jasiorkowski, Peebles, Mignot, Beveridge, Herman, Scheffler.

### XETE NEWS

The other Mexican station, XETE, is creating interest just now. This station is on 31.25 meters and they are heard most every night from about 5:00 until 10:00 P.M., although they may be heard at many other times. They say they are on the air from 1:00 P.M. until 1:00 A.M. the next day and you may hear them any time between these hours. The address is Apartado 1396, Mexico City. A. Leese of San Francisco, Calif., reports them from 12:30 Midnight to 5:00 A.M. and P. E. Donnelly of Los Angeles, sends in a similar report. Other reports have come from August Nickel, Staten Island, N. Y.; Reaney Brothers, Brooklyn, N. Y.; Myron Reamy, Yonkers, N. Y.; Thomas Van Auken, Livingston, Texas; J. A. Shanks, Russellville, Tenn.; Dixon Russell, Baltimore, Md.; H. G. Peebles, Detroit, Michigan; and John Schlafler, Sedalia, Missouri. One member, L. F. Stephens, reports them on 8,700 kc. or 34.48 meters saying their address is Box 1903, but this could hardly be XETE.

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### THE DENTON TROPHY CONTEST

When the Denton Trophy Contest ended in April we rather expected we would be able to announce the winners in the May issue. However, many things have interfered with the final judging of these contestants and we have word now that it will probably be July first before the final decisions will be made. In such a contest, where there are so many entries and so many places to be awarded, there is certain to be a great amount of work involved, especially where two contestants are in a close race for a certain place. We can make no promises, but hope to be able to announce the winners in the July issue.

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### SILENT LISTENER

The post office department informs us that Peter Oldeide, one of our first members, died in San Francisco, California, last month.

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### The Police Stations

The police stations have all been revised recently and we are presenting the new list this month. This comes to you through the courtesy of Carroll Foltz of North Baltimore, Ohio, and Henry Herman, Washington, D. C.

### CHAPTER NEWS

The NEW YORK chapter has established a listening post at 573 East 93rd Street in Brooklyn, which is open to members. Members bring their own receivers and meet each Wednesday and Saturday evening. There has been six antennas erected and six receivers are used most of the time. This chapter is also broadcasting a program on short wave matters over station WVFW, Brooklyn, on 1400 kilocycles each Thursday from 11:00 to 11:15 P.M., E.D.S.T., or 10:00 to 10:15 E.S.T. These programs have met with wide approval. They are now preparing to rebroadcast foreign short wave stations. They meet regularly at the Stuyvesant High School in New York City. The June dates are the first and fifteenth.

The LONDON chapter held a dinner-dance at Maison Lyons on March 22, with many notables present, including the American Consul, representatives of the broadcasting service and of the manufacturers. George F. Brooks of San Juan, Puerto Rico and New York was also a guest. Dancing music was furnished by Emms Dance Orchestra. The program was arranged by Arthur Bear, J. E. Underhay, James Hunter, E. J. Alway and J. P. L. MacFarland. On May 12th this chapter visited the London airport, at Croydon Areodome. A convention will be held in London on Sunday June 24th at 1500 B.S.T., with many persons expected from all parts of Europe. Everyone is invited to come and get acquainted with their fellow-members. Regular meetings are scheduled for July 6th and 20th at 2000 B.S.T., at RACS Hall, Wandsworth Road, London.

The MANCHESTER Chapter meets at Clarion Cafe, 50 Market Street, Manchester, England, on the first Tuesday of each month. They expect to visit Barton airport and the regional transmitters soon.

The EXETER, England chapter dates may be found by writing W. Warner, 56 East Grove Road, St. Leonards.

The LEICESTER chapter dates may be had by writing W. Vendy, 9 Cecilia Road.

The CLEVELAND, OHIO, chapter met recently in the studios WGAR. For details on this chapter call Earl Kingsbury, Telephone Liberty 1245.

### THE SHIPS

H. S. Bradlev of Hamilton, N. Y., sends some news on the ships. DHTY is a new one on the S. S. Resolute. It was heard working Dixon, Calif., on 13.00 megacycles or about 23.00 meters. The Breman now uses DOAH and the Europa uses DOAI.

### SPECIAL PROGRAMS

On the same day that we mailed out this magazine to most of our members we received a letter from Rafael Fuentes L., owner of station HJ1ABE, Apartado 31, Cartagena, Colombia. The letter is in Spanish and we have not been able to translate it entirely, but it indicates that station HJ1ABD on 49.20 meters does not exist or else this was HJ1ABE and they are now on 42.86 meters. HJ1ABE on 42.86 broadcasts a special program for I.S.W.C. members each Monday at 10:00 P.M. and they ask for reports from members.

**AIRCRAFT STATIONS**

This group of stations are used to relay messages to and from airplanes, such as the location of the plane, flying conditions, etc. They come on the air suddenly, deliver their message and go right off again. This list contains only the land stations, but the planes can be heard on the same wavelengths. When you tune in one, leave your dials set and others will no doubt be heard.

Frequency Index in Meters. Underlined frequencies are the ones normally used.

"A"—95.31, 94.86, 94.56, 94.27, 90.29, 58.67, 53.84, 53.73, 53.63, 52.98.

"B"—103.23, 97.63, 97.15, 60.39, 60.14, 54.45, 54.15, 52.89, 52.7.

"C"—95.92, 92.81, 02.52, 87.02, 86.77, 61.01, 53.55, 53.45, 53.26.

"D"—105.12, 99.83, 55.79.

"E"—129.53, 127.33, 86.52, 63.29, 45.87, 45.8, 45.73, 37.44.

"F"—102.67, 101.84, 100.47, 72.77, 54.07.

"G"—175.64, 104.54, 97.42, 55.5, 53.7, 46.5, 34.44, 28.35.

"H"—203.38, 45.35.

**GROUP "A"**

Bakersfield, Calif. .... KQX  
Boise, Idaho ..... KRA  
Burbank, Calif. .... KEU  
Cheyenne, Wyo. .... KOE  
Chicago, Ill. .... WUGG  
Cleveland, Ohio .... WNAK  
Des Moines, Iowa.... KOM  
Elko, Nev. .... KKO  
Fort Worth, Texas.... KGUC  
Fresno, Calif. .... KGT  
Iowa City, Iowa.... KQQ  
Kansas City, Mo.... KNAS  
Kylertown, Pa. .... WNAM  
Lincoln, Neb. .... KRF  
Medford, Ore. .... KGE  
Moline, Ill. .... WNAU  
Newark, N. J. .... WNAO  
North Platte, Nebr.... KMR  
Oakland, Calif. .... KFO  
Oklahoma City, Okla. KNAV  
Omaha, Neb. .... KMP  
Pasco, Wash. .... KRJ  
Ponca City, Okla.... KGUZ  
Portland, Ore. .... KVO  
Rdding, Calif. .... KTU  
Rock Spring, Wyo.... KQC  
Sacramento, Calif.... KFM  
Salt Lake City, Utah.... KQD  
San Diego, Calif.... KGJC  
Seattle, Wash. .... KZJ  
Spokane, Wash. .... KGTZ  
Toledo, Ohio .... WNAO  
Tulsa, Okla. .... KNAU  
Wichita, Kans. .... KGTE  
Watertown, S. D.... KGTC

**GROUP "B"**

Amarillo, Texas.... KSV  
Albuquerque, N. M.... KSX  
Burbank, Calif. .... KSI  
Butte, Mont. .... KGTY  
Camden, N. J. .... WAEE  
Columbus, Ohio.... WHG  
Cresson, Pa. .... VAEG  
Cheyenne, Wyo. .... KGTT  
Chicago, Ill. .... WAEO  
Denver, Col. .... KGSS  
Goodland, Kan. .... KGSJ

Indianapolis, Ind. .... WHM  
Kansas City, Mo.... KST  
Kingman, Ariz. .... KGTL  
Las Vegas, Nev. .... KGTT  
Harrisburg, Pa. .... WAED  
Newark, N. J. .... WAEF  
Oklahoma City, Okla. KGSC  
Pittsburgh, Pa. .... WAEC  
Pocatello, Idaho .... KGTX  
Pueblo, Col. .... KGSR  
Robertson, Mo. .... KGTR  
Salina, Kans. .... KGSM  
Salt Lake City, Ut.... KGTH  
San Bruno, Cal.... KGSB  
Springfield, Mo.... KGTO  
Tulsa, Okla. .... KSY  
Wichita, Kans. .... KGTD  
Winslow, Ariz. .... KGTA

**GROUP "C"**

Albany, N. Y. .... WSOM  
Abilene, Texas.... KGUL  
Atlanta, Ga. .... WQDP  
Beaumont, Texas.... KGTV  
Beacon, Ohio .... WSDO  
Big Springs, Texas.... KGUG  
Birmingham, Ala. .... WDSE  
Boston, Mass. .... WSDD  
Brownsville, Texas.... KGUE  
Buffalo, N. Y. .... WSDO  
Burlank, Calif. .... KGUR  
Chicago, Ill. .... WSDG  
Cincinnati, Ohio.... WSDI  
Columbus, Ohio.... WSDP  
Detroit, Mich. .... WAEI  
Douglass, Ariz. .... KGUN  
Elmira, N. Y. .... WAEO  
El Paso, Texas.... KGUA  
Evansville, Ind. .... WAEN  
Fort Worth, Texas.... KGTF  
Glendale, Calif.... KGUR  
Houston, Texas.... KGBU  
Indianapolis, Ind.... WSDZ  
Indio, Calif. .... KGUQ  
Jackson, Miss. .... WSDB  
Lake Charles, La.... KGTV  
Little Rock, Ark.... KGUU  
Louisville, Ky. .... WSDF

Memphis, Tenn. .... WSDK  
Murfreesboro, Tenn.. WSDH  
Mobile, Ala. .... WAEK  
Newark, N. J. .... WSDC  
New Orleans, La.... WQDQ  
Phoenix, Ariz. .... KGUP  
Robertson, Mo. .... KGUT  
San Antonio, Texas.... KGUD  
San Diego, Calif. .... KGQZ  
Shreveport, La.... KGUK  
Springfield, Ill. .... WA EJ  
Texarkana, Ark. .... KGTB  
Tucson, Ariz. .... KGUO  
Waco, Texas .... KGUH  
Portables... WEAP & KGSB  
Portable ..... WMER

**GROUP "D"**

Billings, Mont.... KGSK  
Bismark, N. D. .... KGTP  
Chicago, Ill. .... WSDS  
Fargo, N. D. .... KNFB  
Helena, Mont.... KGSW  
Madison, Wis. .... WSDR  
Milwaukee, Wis. .... WA EH  
Missoula, Mont.... KGSY  
Pembia, N. D. .... KNWC  
Spokane, Wash. .... KGSX  
St. Paul, Minn.... KNWA

**GROUP "E"**

Blythe, Calif. .... KGUS

**GROUP "F"**

Atlanta, Ga. .... WEEA  
Baltimore, Md. .... WEEB  
Charleston, S. C. .... WEEC  
Greensboro, N. C. .... WEEG  
Jacksonville, Fla. .... WEEJ  
Linden, N. J. .... WEEH  
McRae, Ga. .... WEEH  
Miami, Fla. .... WEEM  
Orlando, Fla. .... WEEO  
Richmond, Va. .... WEEB  
Spartanburg, S. C. .... WEEF  
Washington, D. C. .... WEEK

**GROUP "G"**

Brownsville, Texas.... KGJW  
Fairbanks, Alaska.... KFIM  
Miami, Fla. .... WKDL  
San Juan, P. R. .... WMDU

**GROUP "H"**

Suffield, Ohio.... WMEP  
Portable ..... WMEW





## "ON-THE-AIR"

A short wave receiver picks up many different kinds of stations, most of which are likely to change their wavelengths or schedules often. Since mail from distant stations takes months, this news is slow reaching listeners excepting where some listeners hear the station and report it. Even then it requires speed to reach listeners in time to be helpful. Most publishers make up their magazines from six weeks to four months before it reaches the reader and it is dated far ahead. Our list is usually up-to-date right up to the day it is mailed out. With the aid of thousands of members all over the world we are able to keep this list the most accurate and up-to-date in the world.

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.

**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 impossible 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 foreign country. You never can tell when you will hear them.

### Meter Meg. STATION.

### TIME.

- B-13.92-21.54—W8XK, Pittsburgh, Pa. Relays KDKA, 6:00 A. M. to 1:00 P. M.  
 B-13.97-21.47—GSH, Daventry, England. 6:00 A. M. to 8:30 A. M. daily.  
 T-14.01-21.41—WKK, Lawrenceville, N. J. Phones 8 A. M. till 4 P. M. LSN.  
 T-14.17-21.16—LSL, Buenos Aires, Arg., 8 A. M. to 1 P. M. GAA and PSF.  
 T-14.23-21.08—PSA, Rio de Janeiro, Brazil. Phones WKK, WLK Daytime.  
 T-14.27-21.03—LSN, Buenos Aires, Arg. 8 A. M. to 4 P. M. WKK and WLK.  
 T-14.38-20.86—EHY-EDM, Madrid, Spain. Phones South America, mornings.  
 T-14.72-20.38—GAA, Rugby, England. Phones LSL and PPU near 8 A. M.  
 T-14.97-20.04—OPL, Leopoldsville, Belgian Congo. Phones ORG mornings.  
 T-14.99-20.02—DHO, Nauen, Germany. Phones PPU and LSM Mornings.  
 T-15.01-19.99—KAX, Manila, P. I. Tests irregularly.  
 T-15.24-19.69—CEC, Santiago, Chile. Phones LSR, HJY near 11 A. M. and 4 P. M.  
 T-15.31-19.60—LSF, Buenos Aires, Argentina, Testing 7 to 9 A. M. Irregularly.  
 T-15.37-19.52—IRW, Rome, Italy. Phones Argentina, mornings.  
 T-15.39-19.50—LSQ, Buenos Aires, Argentina. Heard testing near 2:00 P. M.  
 T-15.50-19.35—FTM, St. Assise, France. 10:00 A. M.-2:00 P. M. LSG.  
 T-15.57-19.27—PPU, Rio de Janeiro, Brazil. Phones FTM, 10:30 A. M.-3:00 P. M.  
 T-15.58-19.25—DFA, Nauen, Germany. Phones 10:00 A. M.-2:00 P. M. Irregular.  
 T-15.62-19.21—ORG, Brussels, Belgium. Testing phone, 11 A. M.-11:30 A. M.  
 T-15.68-19.13—LSM, Buenos Aires, Argentina. Phones EAQ, DHO, GAA mornings.  
 E-15.77-19.02—WKW-W2XBJ, Rocky Point, N. Y. Testing, mornings.  
 T-15.83-18.95—ZSS, Klipkeval, S. Africa. Phones GAS 6:30-7 and 10:00-10:45 A. M.  
 T-15.93-18.83—PLE, Bandoeng, Java. Phones Holland 6-11 A. M., KWX irregular.  
 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.  
 T-16.25-18.46—HJY, Bogoto, Columba. Phones CEC, LSR, 11 A. M. and 4:00 P. M.  
 T-16.30-18.40—PCK, Kootwijk, Holland. Phones Java near 7:00 A. M.  
 T-16.35-18.35—WLA, Lawrenceville, N. J. Phones England 8:00 A. M. till 4:00 P. M.  
 T-16.35-18.35—FZS, Saigon, Indo-China. Phones Paris 5:00 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.

## Meter Meg. STATION. TIME.

- T-16.44-18.25-FTE, St. Assisse, France. Phones LSM, PPU mornings.  
 T-16.48-18.20-GAW, Rugby, England. Phones New York mornings.  
 T-16.50-18.18-PMC, Bandoeng, Java. Phones PCV 3:10-9:20 A.M.  
 E-16.55-18.12-LSY, Buenos Aires, Argentina. Irregular.  
 T-16.63-18.04-GAA, Rugby, England. Phones Argentina 10.00 A.M. to 2:00 P.M.  
 T-16.82-18.05-PCV, Kootwijk, Holland. 6:00 A.M.-9:00 A.M. Java.
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- B-16.86-17.79-GSG, Daventry, England. See news section.  
 B-16.87-17.78-W3XAL, Bound Brook, N. J. Daily 9:00 A.M. to 3:00 P.M.  
 B-16.88-17.77-PHI, Huizen, Holland. Mon., Thur., Fri. 7:30 to 9:30 A.M., Sat. and Sun. 7:30 to 11:00 A.M.
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- T-16.89-17.76-IAC, Piza, Italy. Phones ships early mornings.  
 T-16.85 to 18.27-17.80 to 16.42-Ships. Heard in daytime.  
 T-16.92-17.75-HSP, Bangkok, Siam. Works Germany, 4:30 to 6:30 A. M.  
 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-17.34-17.30-Italian ships. Phones WOO and IAC, daytime.  
 T-17.37-17.27-DAF, Norden, Germany. Phones ships irregularly.  
 T-17.52-17.12-WOO, Ocean Gate, New Jersey. Phones ships irregularly.  
 T-17.56-17.08-GBC, Rugby, England. Phones ships irregularly.  
 T-18.44-16.30-WLK, Lawrenceville, N. J. Phones England.  
 T-18.56-16.16-GBX, Rugby, England. 4:00 to 11:00 P.M., VLK.  
 T-18.71-16.04-KKP, Kauhuku, Hawaii. Phones KWU 1:00 to 7:00 P.M.  
 T-18.89-15.88-FTK, St. Assisse, France. Phones Saigon, 8:30 to 11:00 A.M.  
 T-18.91-15.86-CEC, Santiago, Chile. Phones OCJ 11 A.M., 1 P.M., 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-19.03-15.76-JYT, Kemikaya-Cho, Japan. Phones 6:00 to 7:00 P.M.  
 T-19.19-15.62-OCJ, Lima, Peru. Phones CEC daytime.  
 E-19.44-15.43-KWE, Bolinas, Calif. Phones Japan irregularly.  
 T-19.54-15.35-KWU, Dixon, Calif. Phones Hawaii 2:00 till 7:00 P.M.
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- B-19.55-15.35-CT1AA, Lisbon, Portugal. Testing near 8:00 and 10:00 A.M.  
 B-19.56-15.34-W2XAD, Schenectady, N. Y. Mon., Wed., Fri., 1:30-2:30 P.M., Sun. 1:00-3:00 P.M.  
 B-19.60-15.29-CP5, La Paz, Bolivia. Heard near 5:00 P.M., irregular.  
 B-19.64-15.27-W2XE, Wayne, N. J. Relays WABC 10:00 A. M. to 12:00 Noon.  
 T-19.68-15.25-RIM, Tashkent, U. S. S. R. Phones RKI near 8:00 A. M.  
 B-19.68-15.25-Pontoise, France. 7:00 A. M. to 10:00 A. M.  
 B-19.72-15.21-W8XK, Pittsburgh, Pa. Relays KDKA 9:00 A. M. to 3:15 P. M.  
 B-19.73-15.20-DJB, Zeesen, Germany. 12:30 to 2:00 and 6:35 to 9:45 A.M.  
 B-19.82-15.13-GSF, Daventry, England. 8:40 A. M. to 12:45 Noon.  
 B-19.84-15.11-HVJ, Vatican City. Daily 5:00 to 5:15 A.M., Sat., 10:00 to 10:30 A.M.
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- T-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 8:00 A. M.  
 T-20.03-14.98-KAY, Manila, P. I. Phones DFS 5 to 7 A. M.; U. S. A., 7 to 8 PM.  
 T-20.06-14.96-HJB, Bogota, Colombia. Phones Hialeah daytime.  
 T-20.42-14.69-PSF, Rio de Janerio, Brazil. 7 A. M. to 6 P. M. LSL, WLK, WOK.  
 T-20.56-14.59-WMN, Lawrenceville, N. J. Phones England, daylight.  
 T-20.60-14.56-HBJ, Parquins, Switzerland. Experimental.  
 T-20.65-14.53-LSN, Buenos Aires, Argentina. Phones New York, daytimes.  
 T-20.69-14.50-TIR & 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-20.71-14.48-TGF, Guatemala City. Phones Florida daytime irreg.  
 T-20.73-14.47-WMF, Lawrenceville, N. J. Phones England, daylight.  
 T-20.75-14.46-GBW, Rugby, England. Phones MNC 6:00 A.M.-6:00 P.M.  
 E-20.97-21.26-14.30-14.11-Amateur phones heard in daylight.  
 E-21.58-13.90-WQP, Rocky Point, N. Y. Testing with RNE irregularly mornings.  
 E-21.63-13.87-WIY-W2XBJ, Rocky Point, N. Y. Testing irregularly.  
 T-21.70-13.83-SUZ, Cairo, Egypt. Phones GAA 7:00 A. M. to 3:30 P.M.  
 T-21.77-13.78-KKW, Bolinas, California. Used for experimenting.  
 T-21.90-13.70-KKZ, Bolinas, California. Testing irregular.

Meter	Meg.	STATION.	TIME.
T-22.06	13.60	JYK, Kemikawa-Cho, Japan.	Phones KWU 6:00 P.M.
T-22.09	13.58	GBB, Rugby, England.	Phones Canada and Egypt daytime.
E-22.22	13.50	WKU, Rocky Point, N. Y.	Irregular.
T-22.40	13.39	WMA, Lawrenceville, N. J.	Phones England, daytime.
T-22.48	13.35	YVQ, Maracay, Venezuela.	Phones Florida daytime.
T-22.50	to 24.3	13.34 to 12.35—Ships.	Heard in daytime.
T-22.58	13.28	CJA7, Drummondville, Canada.	Phones ships and England daytime.
T-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	HJA3, Barranquilla, Colombia.	Phones U. S. A., daytime.
T-23.38	12.83	CNK, Rabat, Morocco.	Phones St. Assise, 5:00 A.M. to 8:00 A.M.
B-23.38	12.83	RABAT, Morocco.	Broadcasts Sunday, 7:30 to 9:00 A. M.
T-23.45	12.80	IAC, Piza, Italy.	Works ships mornings.
T-23.47	12.78	GBC, Rugby, England.	Phones ships, irregularly.
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-24.40	12.30	ZLW, Wellington, New Zealand.	Phones VK2ME, 3:00 to 8:00 A. M.
T-24.41	12.29	GBU, Rugby, England.	Phones America evenings.
B-24.53	12.73	CTICT, Lisbon, Portugal.	Sun., 7 to 9 A.M.; Thurs., 4 to 6 P.M.
T-24.69	12.15	GBS, Rugby, England.	Phones New York.
T-24.88	12.06	PDV, Kootwijk, Holland.	Tests near 7:30 A. M.
E-25.00	12.00	RNE, Moscow, U.S.S.R.	Heard Sat. and Sun. 9:00 to about 11:00 A.M.
T-25.02	11.99	FZS, Saigon, Indo-China.	Phones FTK 4 to 7 A.M. and 10 to 12 A.M.
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.; FTK 10-12 P.M.
B-25.20	11.90	Pontoise, France.	10:15 A.M.-1:15 P.M. and 2:00 to 5:00 P. M.
B-25.27	11.87	WBXK, Pittsburgh, Pa.	Relays KDKA 3:30 to 9:00 P.M.
B-25.28	11.86	GSE, Daventry, England.	8:45 A. M. to 12:45 Noon.
B-25.36	11.83	W2XE, Wayne, N. J.	Relays WABC 2:00 to 4:00 P. M.
B-25.40	11.81	2RO, Rome, Italy.	11:30 A. M. to 12:30 and 1:15 to 6:00 P. M.
B-25.42	11.79	WIXAL, Boston, Mass.	Schedule not known.
T-25.50	11.79	XDM, Mexico City, Mexico.	Tests with XAM, irregularly.
B-25.51	11.76	DJD, Zeesen, Germany.	12:45 to 4:30 P.M. and 7:45 to 11:30 P.M.
B-25.53	11.75	GSD, Daventry, England.	11:30 P.M. to 1:30 A.M., 1:00-8:00 P.M.
B-25.57	11.73	PHI, Huizen, Holland.	Now on 16.88 meters for summer.
B-25.60	11.72	CJRX, Winnipeg, Canada.	Daily 6 to 10:30 P.M., Sun. 9 to 10 P.M.
E-25.63	11.71	KIO, Kauhuku, Hawaii.	Heard in the evenings testing.
B-25.63	11.71	Pontoise, France.	2:00 P.M. to 11:00 P.M.
E-25.73	11.66	PPQ, Rio de Janerio, Brazil.	Used irregularly in evenings.
E-26.00	11.54	XAM, Merida, Yucatan.	Phones XDA 1:00 and 6:00 P. M., irregular.
T-27.30	10.99	ZLT, Wellington, New Zealand.	5 to 7 A. M., irreg. VLJ.
T-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, Calif.	Phones Hawaii, daytime.
T-28.04	10.77	GBP, Rugby, England.	Midnight to 8 A. M. VLK.
T-28.09	10.68	WNB, Lawrenceville, N. J.	Phones Bermuda, daytime.
T-28.12	10.67	CEC, Santiago, Chile.	Testing with HJY, evenings, irregularly.
E-28.28	10.61	WEA, Rocky Point, N. P.	Tests irregularly with Europe.
T-28.44	10.55	WOK, Lawrenceville, N. J.	Phones Brazil and Argentine, Irreg.
T-28.51	10.52	VK2ME-VLK, Sydney, Australia.	1 A. M. to 8 A. M. GBP.
E-28.79	10.42	XGW, Shanghai, China.	Testing 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 P.M.
E-28.82	10.41	KES, Bolinas, Calif.	Used irregularly.
E-28.85	10.40	KEZ, Bolinas, Calif.	Used irregularly.
E-28.91	10.38	WCG, Rocky Point, N. Y.	Tests irregularly.
E-28.98	10.35	LSX, Buenos Aires, Arg.	Thur. and Fri. 8 PM., Sat. 10 PM., Irreg.
E-29.03	10.33	ZFD, St. Georges, Bermuda.	Heard afternoons irregular.
E-29.04	10.33	ORK, Brussels, Belgium.	Heard from 1:00 to 5:00 P.M. irreg.
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.

Meter	Meg.	STATION.	TIME.
T-29.35	10.22	PSH, Rio de Janeiro, Brazil.	Sending music evenings.
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., irregular.
T-29.83	10.05	ZFB, Hamilton, Bermuda.	Phones U. S. A. and Ships daytime.
T-29.83	10.05	SUV, Cairo, Egypt.	Phones GAA after 3:30 P.M.
T-30.09	9.97	KAZ, Manila, P. I.	Phones PLV near 2:00 A.M.
T-30.15	9.95	GCU, Rugby, England.	Phones New York evenings.
T-30.21	9.93	HKB, Bogota, Colombia.	Phones PSK irreg., evenings.
T-30.3	9.90	LSN, Buenos Aires, Argentina.	6:00 P.M.-6:00 A.M. WLO.
T-30.40	9.87	WON, Lawrenceville, N. J.	Phones England, evenings.
B-30.40	9.87	EAQ, Madrid, Spain.	Daily 5:15 to 7:00 P.M., Sat. 12 noon to 2 P.M.
E-30.40	9.87	JIAA, Kemikawa-Cho, Japan.	Near 4 to 7 A.M. irregular.
T-30.52	9.83	IRM, Rome, Italy.	Phones Egypt, afternoons.
T-30.60	9.80	GCW, Rugby, England.	Phones America, evenings.
T-30.75	9.76	VK2ME-VLK, Sydney, Australia.	Phones Java, 4 A.M.-8 A.M.
T-30.77	9.75	WOF, Lawrenceville, N. J.	Phones England, evenings.
T-31.08	9.67	DGU, Nauen, Germany.	Phones Egypt 11:00 A.M. to 5:00 P.M. irreg.
B-31.25	9.60	XETE, Mexico City.	Evenings from 8:00 to 10:00 P.M., irregular.
B-31.25	9.60	CT1AA, Lisbon, Portugal.	Tues. and Fri. 4:30 to 7:00 P.M.
B-31.27	9.59	HBL, Geneva, Switzerland.	5:30 to 6:15 P.M.
B-31.28	9.59	W3XAU, Philadelphia, Pa.	11:00 A.M. to 5:00 P.M., irregular.
B-31.29	9.59	VK2ME, Sydney, Australia.	Sundays, 1 to 3, 5 to 9, and 11:30 A.M. to 1:30 P.M.
B-31.30	9.58	GSC, Daventry, England.	6:00 P.M. to 8:00 P.M., daily.
B-31.31	9.58	VE3LR, Melbourne, Australia.	3:15 to 7:30 A.M., except Sundays.
B-31.36	9.57	W1XAZ, Boston, Mass.	6:00 A.M. to Midnight.
B-31.38	9.57	DJA, Zeesen, Germany.	6:45 to 9:45 A.M. and 5:00 to 7:30 P.M.
B-31.49	9.53	W2XAF, Schenectady, N. Y.	6:45 P.M. to 10:00 P.M.
B-31.55	9.51	VK3ME, Melbourne, Australia.	Wed. 5:00 to 6:30; Sat. 5 to 7 A.M.
B-31.55	9.51	GSB, Daventry, England.	Broadcasting 11:30 P.M. to 1:30 A.M.; and 1:00 P.M. to 5:30 P.M.
B-31.56	9.50	YV3BC, Caracas, Venezuela.	4:30 to 10:00 P.M. irregularly.
E-31.60	9.49	WEF, Rocky Point, N. Y.	Irregularly in the evenings.
T-31.63	9.48	PLW, Bandoeng, Java.	Phones Australia, 3 A.M.-8 A.M. Irregularly.
E-31.65	9.48	KET, Bolinas, California.	Tests evenings irregular.
E-31.74	9.45	WES-W2XBJ, Rocky Point, N. Y.	Testing irregularly, evenings.
T-31.86	9.42	PLV, Bandoeng, Java.	Phones 7:40 to 9:40 A.M.
B-32.02	9.37	HJ5ABH, Palmira, Colombia.	11 to 12 A.M. and 7:30 to 9:30 P.M.
T-32.15	19.33	CJA2, Drummondville, Canada.	Phones Ships and England irreg.
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-32.89	9.12	CP5, La Paz, Bolivia.	7:30 to 10:30 P.M. irregularly.
T-33.26	9.02	GCS, Rugby, England.	Phones New York evenings.
E-33.29	9.01	KEJ, Bolinas, California.	Tests irregularly.
E-33.52	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 B.20-Ships.	Heard irregularly.
T-34.19	8.77	PNI, Makasser, D. E. I.	Phones Java near 4:00 to 5:00 A.M.
T-34.56	8.68	GBC, Rugby, England.	Phones ships, irregularly.
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.
B-36.65	8.19	PRA3, Rio de Janeiro, Brazil.	Uses PSK 6:00 to 7:30 P.M. irreg.
T-36.65	8.19	PSK, Rio de Janeiro, Brazil.	Sending music 6:00 to 7:30 evenings.
B-37.33	8.05	CNR, Rabat, Morocco, Africa.	Sunday 2:30 to 5:00 P.M.
T-37.59	7.98	VLJ, Sydney, Australia.	Phones Java near 5:30 A.M.
T-37.60	7.98	HST, Bangkok, Siam.	Phones Germany, 4:30 to 6:00 A.M., irregular.
T-37.97	7.90	LSL, Buenos Aires, Argentina.	In Byrd Broadcast irregularly.
T-38.06	7.86	SUX, Cairo, Egypt.	Phones Rome and London afternoons.
B-38.07	7:88	JIAA, Kemikawa, Japan.	5:00 A.M. to 7:40 A.M. daily.

Meter	Meg.	STATION.	TIME.
T-38.11	7.87	HPC, Panama City.	Phones HJP afternoons irregularly.
B-38.47	7.80	HBF, Geneva, Switzerland.	5:30 to 6:15 P.M.
E-38.89	7.71	KEE, Bolineas, California.	Testing with KJTY evenings irregularly.
T-39.34	7.63	RIM, Russia.	Phones RKL, 6:00 A.M. to 8:15 A.M.
T-39.42	7.61	KWX, Dixon, California.	Phones Hawaii, nights.
T-39.89	7.52	KKH, Kauhuku, Hawaii.	Phones KWO evenings.
T-39.97	7.50	RKI, Russia.	Phones RIM, 6:00 A.M. to 8:15 A.M.
B-40.55	7.40	HJ3ABD, Bogota, Colombia.	7:30 to 11:00 P.M.
T-40.71	7.37	KEQ, Kauhuku, Hawaii.	Phones Dixon nights.
T-41.49	7.23	Medan, Sumatra.	7:00 to 10:00 A.M. often.
B-41.55	7.22	HKE, Bogota, Colombia.	Mon., 6 to 7 P.M., Tues., Fri., 8 to 9 P.M.
E-41.60	7.20	HJ4AB, Manizales, Colombia.	Broadcasts Evenings.
B-42.86	7.00	HJ1ABE, Cartagena, Colombia.	Mondays 10:00; Wed. 8:00 P.M.
T-43.45	6.90	GDS, Rugby, England.	Phones New York, nights.
E-43.86	6.84	HAS, Budapest, Hungary.	3:00 to 5:30 P.M. irregularly.
T-44.05	6.61	TGF, Guatemala City.	Phones evenings irregular.
T-44.41	6.75	WOA, Lawrenceville, N. J.	Phones England nights.
E-44.54	6.74	WEJ-W2XBJ, Rocky Point, N. Y.	Testing irregularly, evenings.
T-44.96	6.67	YVQ, Maracay, Venezuela.	Testing near 10 P. M. irregularly.
B-45.00	6.67	HC2RL, Guayaquil, Ecuador.	Sun., 5:45-8:00; Tues., 9:15-11:45 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.
E-45.35	6.61	WMEP, Akron and Airships.	Irregularly.
B-45.38	6.61	REN, Moscow, U. S. S. R.	1:00-6:00 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.	7:30 to 10:00 P. M. daily.
B-46.69	6.43	W3XL, Boundbrook, N. J.	
T-46.77	6.42	HJA3, Barranquilla, Colombia.	Heard testing after 4:00 P. M.
B-47.50	6.32	HIZ, Santo Domingo, R. D.	Daily 4:40-5:40; Sat. 11:00-12:40 P.M.
B-47.80	6.23	H1IA, Dominican Rep.	12:10 to 1:40 and 7:40 to 9:40 P.M. daily. Sun. 1:40 to 4:40 P.M. and 7:40 to 9:40 P.M.
E-48.00	6.25	Army aircraft, heard in daytime.	
B-48.00	6.25	HJ3ABF, Bogota, Colombia.	7:00-11:00 P.M., daily.
B-48.78	6.15	YV3BC, Caracas, Venezuela.	10:30 A.M. to 1:30 P.M. and 4:30 P.M. to 9:30 P.M.
B-48.86	6.14	W8XK, Pittsburgh, Pa.	Relays 3:30 P.M. to 1:00 A.M.
B-48.92	6.13	ZGE, Kuala Lumpur, Malaya States.	Sun., Tues., Fri., 6:40-8:40 AM
B-48.94	6.13	LCL, Jely, Norway.	Relays Oslo 11:00 A.M. to 6:00 P.M.
B-49.00	6.12	Johannesburg, Africa.	4-6 A.M., 8-10:30 A.M., 11 A.M. to 3:40 P.M.
B-49.02	6.12	PK1WK, Bandoeng, Java.	Daily 5:00 to 6:30 A. M.
B-49.02	6.12	W2XE, Wayne, N. J.	Relays WABC 5:00 P.M. to 10:00 P.M.
B-49.08	6.11	YV1BC, Caracas, Venezuela.	10:30 A.M. to 1 P.M., 5:15-10:00 P.M.
B-49.10	6.11	VE9HX, Halifax, N. S.	8:30-11:30 A. M., 5 P. M. to 10 P. M.
B-49.10	6.11	VUC, Calcutta, India.	9:30 A. M. to noon, Saturdays, 11:45 P. M. to 3:00 A. M.
B-49.18	6.10	W3XAL, Bound Brook, N. J.	Mon., Wed., Sat. 4:00 PM. to Midnight.
B-49.18	6.10	W9XF, Chicago, Ill.	3:30-7:00 P.M., 8:30-1:00 A.M.
B-49.20	6.10	HJ1ABD, Cartagena, Colombia.	11:30 A.M.-12:30 P.M.; 7-9 P.M.
B-49.22	6.09	VE9GW, Bowmanville, Ont.	Mon., Tue., Wed. 1:00 to 10:00 P.M., Thur. 2:00-11:00 P.M., Fri., Sat. 6:00 A.M. to 11:00 P.M., Sun. 10:00 A.M. to 7:00 P. M.
B-49.29	6.09	VE9BJ, St. John's, N. B., Canada.	Near 5:00 and 11:00 P. M.
B-49.34	6.08	W9XAA, Chicago, Ill.	1:00 P.M. to about 6:00 P.M. Sundays.
B-49.34	6.08	CP5, La Paz, Bolivia.	7:30 to 10:30 P.M. irregularly.
B-49.39	6.07	YV5BMO, Maracaibo, Venezuela.	Irregularly 5:30 to 11:00 P.M.
B-49.40	6.07	OXY, Skamleback, Denmark.	2:00 P. M. to 6:30 P. M., irregular.
B-49.42	6.07	VE9CS, Vancouver, B. C.	Fri. 12:30 to 1:45 A.M., Sun. Noon to Mid.
B-49.50	6.06	HIX, Santo Domingo, R. D.	Tues. and Fri., 8:10 to 10:10 P. M.; Sun. 8:40 to 10:40 A.M. and 2:40 to 4:40 P.M.
B-49.50	6.06	W3XAU, Philadelphia, Pa.	7:00 P.M. to Midnight, irregular.
B-49.50	6.06	W8XAL, Cincinnati, Ohio.	6:30 A.M. to 7:00 P.M.; 10 PM. to 2 AM,

Meter	Meg.	STATION.	TIME.
B-49.50	6.06	VQ7LO, Nairobi, Kenya Colony.	11 A. M. to 2 P. M. daily.
B-49.59	6.05	GSA, Davenport, England.	12:30 A.M. to 1:30 A.M.
B-49.60	6.05	HJ3ABI, Bogota, Colombia.	8:00 to 10:00 P.M. irreg.
B-49.67	6.04	WJXAL, Boston, Mass.	Daily 6:00 to 7:00 P.M.
B-49.83	6.02	DJC, Zeesen, Germany.	12:50 to 4:30 and 9:00 to 11:30 P. M.
B-49.83	6.02	CQN, Macao, China.	Monday and Friday, 7:00 to 9:00 A.M.
B-49.83	6.02	XEBT, Mexico City.	Relays XEB, 6:00 P.M. to 2:00 A.M. Irreg.
B-49.96	6:01	VE9DN, Drummondville, Canada.	Saturdays, after 10:30 P.M.
B-49.96	6.01	COC, Havana, Cuba.	Daily 4-6 P.M.; also irreg. 8-10 P.M.
B-50.00	6.00	RV59, Moscow, U. S. S. R.	Daily, 2:00 P. M. to 6:00 P. M.
E-50.08	5.99	WVD, Seattle, Washington.	Calls Alaska evenings irregularly.
B-50.08	5.99	YV4BSG, Caracas, Venezuela.	4:30 to 10:30 P. M.
B-50.25	5.97	HJ2ABC, Cucuta, Colombia.	11:00 A.M. to Noon, 6:00 to 9:00 P.M.
B-50.26	5.97	HVJ, Vatican City.	Broadcasts daily, 2:00-2:15 PM., Sun. 5:00-5:30 AM.
B-50.42	5.95	HJ4ABE, Medellin, Colombia.	Mon., 7 to 11 P.M.; Tues., Thurs., Sat., 6:15 to 8:00 P.M.; Wed., Fri., 7:30 to 10:30 P.M.
B-50.50	5.95	TGX, Guatemala City,	Sundays 2 to 5 A. M. and also near Midnight.
T-51.26	5.85	WOB, Lawrenceville, N. J.	Phones Bermuda nights.
B-51.49	5.88	HJ2ABA, Tunja, Colombia.	1:00 to 2:00 and 7:30 to 10:00 P.M.
T-51.50	5.82	HJA2, Bogota, Colombia.	Phones HJA3 afternoons and evenings.
T-51.72	5.80	KZGF, Manila, P. I.	Phones from 5:00 to 8:00 A. M.
E-52.00	5.77	XDA and XAM, Mexico.	Testing evenings near 7:00 P.M.
B-52.65	5.70	HCK, Quito, Ecuador.	Supposedly to be daily 8:00 to 11:00 P.M.
E-52.97	5.66	CFU Rossland, Canada.	Works CFO and CFN near 10 P.M. Irreg.
B-53.57	5.60	HJ3ABC, Cali, Colombia.	8:00 to 10:00 P.M.
T-58.30	5.15	PMY, Bandoeng, Java.	Phones Australia, near 11:00 A. M.
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.
T-60.26	4.98	GBC, Rugby, England.	Phones to ships, irregularly.
E-60.30	4.97	G6RX, Rugby, England.	Experimenting evenings near 9:00.
T-61.15	4.90	CGA5, Drummondville, Canada.	Phones ships and England evenings.
T-62.24	4.82	GDW, Rugby, England.	Phones New York evenings.
T-63.13	4.75	WOO, Ocean Gate, N. J.	Phones ships, irregularly.
B-65.85	4.55	WDN, Rocky Point, N. Y.	Phones KNRA, evenings.
T-66.50	4.51	VPN, ZFS, Nassau, Bahamas.	Phones WND and GYD, 2-10 P. M.
T-67.87	to 73.17	4.42 to 4.10	Ships. Heard irregularly.
T-69.44	4.32	GDB-G6RX, Rugby, England.	Testing evenings 7:00 to 10:00 P.M.
E-69.60	4.31	WTDV, WTDW, Virgin Islands.	2:00 to 3:00 P.M., weather reports.
B-70.65	4.25	RV15, Knabarovsk, U.S.S.R.	1:00 to 9:00 A.M.
B-73.00	4.00	HCJB, Quito, Ecuador.	7:30 to 9:45 daily except Monday.
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.
T-119.20	2.51	WOU, Marshville, Mas.	Phones ships evenings.
T-118.06	2.54	WOX, Bell Telephone test station.	Irregularly.

## SHIP STATIONS

These stations are telephone stations, but are sometimes rented to broadcast a special program from a ship. They operate on four bands, 16.85 to 18.27 meters, 22.50 to 24.3 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.

VQJM, Monarch of Bermuda; GLSQ, Olympic; GFJY, Caledonia; GMJQ, Belganland; GFVV, Majestic; GDLJ, Homeric; GMBJ, Empress of Britain; DDAS, Bremen; DAAC, Europa; DDDT, Deutchland; DXJC, Hamburg; DOBX, Columbus; DDNY, Albert Ballin; DHRL, New York; ICEJ, Rex; IBLI, Conte de Savoia; GBZW, Berengaria; FNSM, Ile de France; GLRZ, Aquitania; VQJP, Queen of Bermuda; DHTY, Resolute.

## SPECIAL STATIONS

KFZ, Little America (South Pole) near 45, 34, 31.57, 25.36, 23, 19.64, 17 and 14 meters. KNRA, The Schooner "Seth Parker." 48.70, 24.30, 31.22 meters and same as KFZ.

## POLICE STATIONS

(These stations are used by Police departments to relay messages to police cars that patrol the cities. They come on the air, send their message and go right off again. Since there are several stations on each wavelength, when one is tuned-in just keep your dial set and others will be heard. The first figure given is the wavelength in meters and the second is the wavelength in megacycles. Write dial numbers in space provided.)

120.48	2,490 ( )	122.85	2,442 ( )	KGHS, Spokane, Wash.	
WPFJ, Clarksburg, W. Va.		WPGL, Binghamton, N.Y.		KGZN, Tacoma, Wash.	
WPDZ, Fort Wayne, Ind.		KGFX, Denver, Col.		WPDA, Tulare, Calif.	
WPFJ, Hammond, Ind.		WPEB, Grand Rapids, Mich.		WPGJ, Utica, N.Y.	
WPGO, Huntington, N.Y.		WMDZ, Indianapolis, Ind.		124.69	2,406 ( )
WPDZ, Kokomo, Ind.		WPFJ, Jacksonville, Fla.		KGBZ, Little Rock, Ark.	
KGZU, Lincoln, Nebr.		WFFT, Lakeland, Fla.		KGPW, Salt Lake City, Utah	
KGHJ, Long Beach, Calif.		WPDZ, Lansing, Mich.			
WPGS, Mineola, N.Y.		WPDE, Louisville, Ky.		175.23	1,712 ( )
KGHX, Santa Anna, Calif.		WPFZ, Miami, Fla.		KGPL, Arlington, Mass.	
KGZD, San Diego, Calif.		122.85	2,442 ( )	KGPI, Beaumont, Texas	
KGHD, Seattle, Wash.		WPFJ, Muskegon, Mich.		WPDB-C-D, Chicago, Ill.	
KGHE, Snoqualmie, Wash.		WPFX, Palm Beach, Fla.		KVP, Dallas, Texas	
WPGN, South Bend, Ind.		KGPP, Portland, Ore.		WPEI, E. Providence, R.I.	
121.26	2,474 ( )	WPFJ, Reading, Pa.		KGPL, Los Angeles, Calif.	
WPFJ, Knoxville, Tenn.		WPDH, Richmond, Ind.		WPFN, New Bedford, Mass.	
KGHG, Las Vegas, Nev.		WPES, Saginaw, Mich.		WPFJ, Newton, Mass.	
WPDZ, Philadelphia, Pa.		KGZR, Salem, Ore.		KGJX, Pasadena, Calif.	
KGHM, Reno, Nev.		123.45	2,430 ( )	WPDZ, Pittsburg, Pa.	
WPFJ, Swarthmore, Pa.		WPDZ, Columbus, Ohio		WPGF, Providence, R.I.	
WRDQ, Toledo, Ohio		WPDZ, Dayton, Ohio		KGZY, San Bernardino, Calif.	
121.65	2,466 ( )	WPFJ, Hasensack, N.J.		WPEH, Somerville, Mass.	
WPGA, Bay City, Mich.		KGFB, Minneapolis, Minn.		KGZQ, Waco, Texas	
KGOZ, Cedar Rapids, Iowa		WPEK, New Orleans, La.		175.85	1,706 ( )
WPGK, Cranston, R.I.		KGZJ, Phoenix, Ariz.		WKDU, Cincinnati, Ohio	
KGPN, Davenport, Iowa		WPGI, Portsmouth, Ohio		WPET, Lexington, Ky.	
KGZC, Des Moines, Iowa		WPDZ, St. Paul, Minn.		KGPC, St. Louis, Mo.	
WPDF, Flint, Mich.		WPGE, Shreveport, La.		178.36	1,682 ( )
WPEC, Memphis, Tenn.		123.80	2,422 ( )	KGHO, Des Moines, Iowa	
KGPI, Omaha, Nebr.		WMJ, Buffalo, N.Y.		WPGG, Findlay, Ohio	
WPFJ, Pawtucket, R.I.		KGPE, Kansas City, Mo.		179.21	1,674 ( )
WPGB, Port Huron, Mich.		WPFU, Portland, Maine		KGHK, Palo Alto, Calif.	
KGPK, Sioux City, Iowa		KGZC, Topeka, Kans.		KGPD, San Francisco, Calif.	
WPEM, Woonsocket, R.I.		KGPG, Vallejo, Calif.		KGPM, San Jose, Calif.	
122.05	2,458 ( )	WPDW, Washington, D.C.		KGZT, Santa Cruz, Calif.	
WPDZ, Akron, Ohio		124.37	2,414 ( )	180.07	1,666 ( )
WPDV, Charlotte, N.C.		KGZV, Aberdeen, Wash.		WRDS, East Lansing, Mich.	
WRBH, Cleveland, Ohio		WPGH, Albany, N.Y.		WMP, Framingham, Mass.	
KGZW, Lubbock, Texas		KGZX, Albuquerque, N.M.		WPEW, Northampton, Mass.	
WPGD, Rockford, Ill.		WPDY, Atlanta, Ga.		WPEL, Bridgewater, Mass.	
WPDG, Youngstown, Ohio		KGPS, Bakersfield, Calif.		180.88	1,658 ( )
KGZI, Wichita Falls, Texas		WPFH, Baltimore, Md.		KSW, Berkeley, Calif.	
122.40	2,450 ( )	WPFJ, Columbus, Ga.		WPGC, S. Schenectady, N.Y.	
WPEF, Bronx, N.Y.		WCK-WPDX, Detroit, Mich.		KGZE, San Antonio, Texas	
WPEE, Brooklyn, N.Y.		KGZM, El Paso, Texas		184.05	1,630 ( )
KGZF, Chanute, Kans.		KGZA, Fresno, Calif.		Fire	
KGZP, Coffeyville, Kans.		WRDR, Grosse Point, Mich.		WEY, Boston, Mass.	
KGQP, Honolulu, Hawaii		WMO, Highland Park, Mich.		WKDT, Detroit, Mich.	
WPKD, Milwaukee, Wis.		WPGM, Lagrange, Ga.		KGPD, San Francisco, Calif.	
WPEG, New York, N.Y.		KGZO, Santa Barbara, Calif.		KIDA, Seattle, Wash.	
KGPH, Oklahoma City, Okla.		KGPF, Santa Fe, N.M.			
KGPO, Tulsa, Okla.		KGPA, Seattle, Wash.			
KGPP, Wichita, Kans.					

A new station using the call HJB at Bogota was heard on 30.21 meters or 9,930 kc. working PSK, Brazil, from 6:00 to 7:30 P.M. They said they were at Bogota and that they also had station HJY. So it must be owned by the all-American Cable Company. This test was heard on Friday. Reports from Myron D. Reamy, Yonkers, N. Y.; August Nickel, Staten Island, N. Y.; W. J. Tyler, New Woodstock, N. Y.; John Oskay, Piscatawaytown, N. J.; Howard Eck, Lansing, Michigan; Carroll Foltz, North Baltimore, Ohio; R. Bartlett, St. Pierre Island.

HKE, Bogota, is still on 42.3 meters according to Edward Houlgate, London, Ontario. It was said they were on 62.3 meters.

Samuel Sternberg tells us to look out for a station HJA5 at Santa Marti, Colombia, which will be heard soon on 10,110 kc., 4,814 kc., 6,800 kc. and 13,219 kc. Mr. Sternberg is at Far Rockaway, N. Y.

HJ1ABE, Cartagena, on 42.86 meters says they have increased their power from 50 to 100 watts and they are on the air from 8 to 9 P.M., E.S.T. This comes from Howard Eck, Lansing, Michigan; Dixon Russell, Baltimore, Md.; James Brown, Laredo, Texas.

HJ2ABC, La Voz de Cucuta at Cucuta, is replying to reports in an envelope printed with the call of HJ2ABA, Tunja. They say they are on 50.02 meters daily from 6:00 to 9:00 P.M. Such letters have been received by Edward Houlgate, London, Ontario; Samuel Sternberg, Far Rockaway, N. Y.; Dominic Larenzini, Minotelo, N. J.; H. J. Davison, Bayamon, P. R.

HJ3ABD, Bogota, on 40.55 meters has been testing lately. They are reported as late as 1:30 A.M. Reports have come from J. Scott Chohick, New Cumberland, Pa.; Henry Shaw, Cape May, N. J.; F. L. Stitzinger, Erie, Pa.; W. J. Tyler, New Woodstock, N. Y.; Henry Herman, Washington, D. C.

### The Rocky Point Stations

There are, so we are told, about 80 stations at Rocky Point, N. Y., which may be heard at any time on voice. It is impossible to keep track of all of them, unless you happen to be right there. But we are doing our best. Here are some reports: WKP on 6,950 kc. or 43.17 meters, and WDN on 4,555 kc., or 65.85 meters at 11:00 P.M. Reported by Samuel Sternberg, Far Rockaway, N. Y. WQP on 15,700 kc. and WEB testing with RNE and RKI, Sunday mornings near 9:00 A.M., by L. S. Prettyman of Chicago. WDN on 66.5 meters working KNRA, Sunday evenings, reported by James Pickering, Hightstown, N. J.; Fred Karpen, Johnstown, Pa.; Wm. Fieldler, Milwaukee, Wisconsin; H. G. Peebles, Detroit, Mich. WDA on 66.44 meters working KNRA near 11:00 P.M., by Forest Mussell, Chillicothe, Ohio, and H. G. Peebles. WEM on 40.54 meters and WQV on 20.27 meters working Germany at 10:30 P.M., by H. G. Peebles. WQF on 20.1 meters working Berlin (DJB) mornings by Frank Grey, Berwyn, Ill. WLL on 17.00 meters working Berlin from 10:40 to 11:15 A.M. by R. D. Everard, Standon, England.

### The Army Stations

L. F. Stephens of Redlands, California, reports a US5Y on 5,925 kc. calling a KTT, Drier Bay, Alaska, at 7:10 to 7:50 P.M.

Henry Shaw of Cape May, N. J., tells us the army stations are heard on 46.7 and 48.8 meters now. Francis Worrell, Ann Arbor, Michigan, reports Bolling Field calling Cleveland on 63.2 meters at 6:00 P.M.

# SHORT WAVE SUPPLIES

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And also enjoy the many pleasures that can be derived from using any of the articles mentioned here. A globe to mark the stations you have heard and measure the exact distances to the stations. A map of the world to show friends where you have traveled by radio. Special stationery to bring those long-wanted verifications. A lapel button to show other members that you belong to the largest and best-known short wave organization in the world. An amateur call-book to give you the owner, location and call-sign of the many amateur stations you hear. We guarantee that you can't beat these prices anywhere.

### WORLD GLOBE

A real world globe, twelve inches in diameter. Something you will be proud to show to your friends. Mark the location of the stations you hear, measure distances between yourself and the station you hear, and trace the routes of expeditions. This globe will add interest to your short wave set. Remember it is 12 inches in diameter and thirty-seven inches in circumference. We pay the postage on this globe and it is shipped in a cardboard carton.

Add 25c to foreign countries. PRICE..... **\$3.25**

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A smaller globe, seven inches in diameter, at a smaller cost. These globes are large enough to be attractive and useful in marking the stations heard on your short wave receiver. By using colored beads and pins to mark the location of the stations heard, it makes an unusual and attractive display for visitors to your radio room. We pay the postage on this globe also.

PRICE..... **\$1.25**

### WORLD MAP

A fine map of the world, in eighteen colors. Keep one near your radio set to mark the stations you hear. Makes a wonderful display for visitors. Each map is 20 by 30 inches. The colors are very beautiful. Mailed in a cardboard mailing tube for five cents extra.

PRICE EACH..... **25c**

### SPECIAL STATIONERY

Stationery with the International Short Wave Club emblem. Many station owners are members of the Club and will answer more quickly if your report is written on this paper. Advertisers are also offering discounts to Club Members. Get a supply of this paper and use it to get bargains and more verifications, and also advertise the Club to your friends. One hundred sheets, postpaid.....

**50c**

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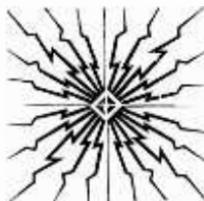
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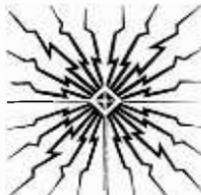
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