

RADIO IN DEX

The All-Wave Radio Log Authority

No. 135

JANUARY - FEBRUARY, 1940

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*Hear Distant Stations on Your
Regular Broadcast Band Receiver.
The Articles and Lists in this
Magazine will tell you how.*



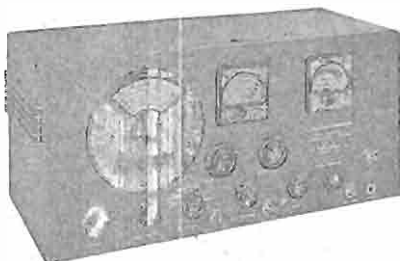


RADEX READERS SHOPPING SERVICE

OFFERS YOU

THE NEW

HALLICRAFTERS



SKYRIDER DEFIANT SX-24

SX-24 - 1939

Skyrider Defiant

\$69.50 Cash Price

Matched Speaker

\$12.00 Cash Price

Combination

\$81.50 Cash Price

Term Payments

\$12.60 Down

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12 Months \$6.10 ea.

⊙ **BAND RANGE.** Tunes from 540 kcs. to 43500 kcs. in four bands. Band 1, 540 to 1730 kcs. Band 2, 1700 to 5100 kcs. Band 3, 5000 to 15700 kcs. Band 4, 15200 to 43500 kcs.

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⊙ **TUBES.** There are nine tubes. 6SK7 R.F. Amplifier, 6K8 1st Detector-Mixer I.F. Oscillator, 6SK7 1st I. F. Amplifier, 6SK7 2nd I. F. Amplifier, 6SQ7 2nd Detector. A.V.C., 1st stage of audio, 6F6 2nd audio output stage 6H6 Automatic Noise Limiter, 76 Beat Frequency Oscillator, 80 Rectifier.

⊙ **R. F. GAIN CONTROL.** Adjusts the sensitivity of the receiver.

⊙ **SELECTIVITY-A. V. C. SWITCH.** Provides a means of bringing the signal through varying conditions of interference.

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SX-23, complete with speaker in cabinet	\$127.50	\$19.40	\$14.08	\$9.58
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Please refer to Order Form on Page 95

RADEX

1

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AT
A LITTLE PRICE!

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Adapter with Trimm Feather-weight Headphones—

\$13.50

Adapter with Trimm Dependable Headphones—

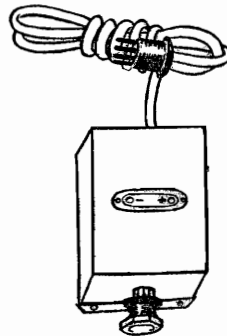
\$5.95

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\$4.40

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Makes it easy to attach headphones to any radio set. Easily installed, without tools, in just a minute. The loudspeaker can be silenced while 'phones are being used. Ideal for the hard-of-hearing. The price is only \$3.95, without headphones.



As these adapters are made to order, about two weeks should be allowed for delivery.

We pay the postage.

THE RADEX PUBLISHING CO., 362 Cedar Lane, Teaneck N. J.



RADIO INDEX

Reg. U. S. Patent Office



SIXTEENTH YEAR

JANUARY 1, 1940

No. 135

Page Taylor, *Editor*

B. Francis Dashiell, *Technical Editor*

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Anthony C. Tarr, *Western Editor*

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FOR SALE AT YOUR NEWSSTAND

Important Announcement

Commencing with this issue, RADEX will be published six times a year instead of the usual ten times per year. The schedule of issues and the approximate on-sale dates will be as follows:

January-February IssueDec. 22
March-April IssueFebruary 25
May-June IssueApril 25
July-August IssueJune 25
September-October Issue ...August 25
November-December Issue ...Oct. 25

The publishers regret to make this announcement, but they are reluctantly compelled to take this action because the expense of waste copies returned for some time past has resulted in losses which have greatly interfered with proper service to you.

The publishers have been glad to

make good these losses, but now with mounting prices for even the cheapest grades of paper and other rising costs, such a plan is no longer possible to follow. In the interest of DXing, the finest of hobbies, and your RADEX, the publishers have decided upon this new plan which it is hoped will meet with your approval under the circumstances.

In an effort to effect economies we have recently made several changes in RADEX, notably in the paper used. In making these changes the publishers felt that you would much prefer them to a reduction in the number of pages and editorial material. As a matter of fact, we have actually increased the quality and the amount of editorial material. These, consisting as they do of the real service any

publication offers, we sincerely believed the changes were made in your best interests.

Some of these changes, however, have been misunderstood by some as being something that would greatly add to the profits of the publishers at the expense of the readers. We are not blaming anyone for this attitude. It is a perfectly natural conclusion. But now that we are giving you the facts concerning the problems of your magazine, we believe you will understand the circumstances.

The new plan will result favorably in a number of ways, the most important of which is the fact that we will be able to realize a better proportion of copies sold to the number of copies printed, and the savings thus effected will permit us to publish a better magazine for you.

The reduced subscription price of \$1.25, too, will make subscriptions available to a large number of DXers who were not able to subscribe at the higher price.

Nothing will be editorially lost. The several indices of North American broadcasting stations will be continued, just as they have for the past sixteen years. The shortwave broadcasting station lists, the world's radio stations on all waves and in all services will continue to be listed, and the articles by Anthony C. Tarr, Ray LaRocque, Owen P. Callin, B. Francis Dashiell's "Turner Dial" stories, and edited by Page Taylor—all will continue as in the past.

Present subscribers will, of course, receive their full quota of copies subscribed for.

Please be assured the publishers have and will continue to do everything possible to supply you with a good magazine. Your continued faithful support of our earnest efforts in your behalf will be a great incentive to continue to serve you to the best of our ability.

Page Taylor, Editor

FCC OFFICES

Following the suggestion of Rud Anderson of Ambrose, North Dakota, who believes many of our readers will also be interested, we are listing the addresses of the Field Offices of the FCC.

Central Frequency Monitoring Station, Grand Island, Nebr.

Naval Training Station Monitoring Station, Great Lakes, Ill.

Dist. No. 1, U. S. Customhouse, Boston, Mass.

Dist. No. 2, 641 Washington St., New York City.

Dist. No. 3, Customhouse, Philadelphia, Pa.

Dist. No. 4, Fort McHenry, Baltimore, Md.

Dist. No. 5, New Post Office Bldg., Norfolk, Va.

Dist. No. 3, Fort McHenry, Baltimore, Md.

Dist. No. 6, 411 Federal Annex, Atlanta, Ga.

Sub-Office: 208 Post Office Bldg., Savannah, Ga.

Dist. No. 7, P. O. Box 150, Miami, Fla.

Sub-Office: 203 P. O. Bldg., Tampa, Fla.

Dist. No. 8, Customhouse, New Orleans, La.

Dist. No. 9, 404 Federal Bldg., Galveston, Texas

Dist. No. 10, 302 U. S. Terminal Annex Bldg., Dallas, Tex.

Dist. No. 11, Rives-Strong Bldg., Los Angeles, Calif.

Sub-Office: New California Bldg., San Diego, Calif.

Dist. No. 12, Customhouse, San Francisco, Calif.

Dist. No. 13, New Courthouse Bldg., Portland, Oreg.

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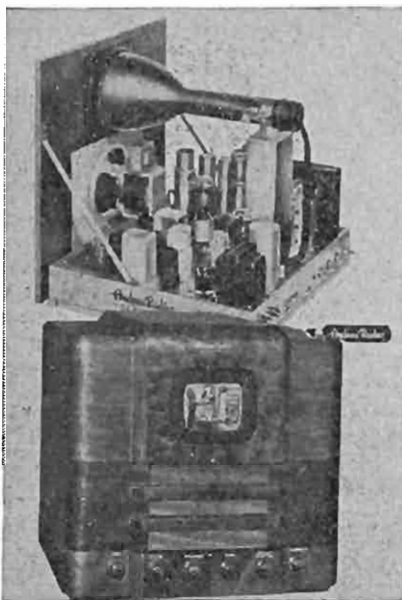
BEGINNING THE NEW YEAR WITH THE TECHNICAL EDITOR

Wherein some perplexing problems are solved for new radio listeners,
and some questions from our old-timers are answered.

This is the time of year when another Christmas and a New Year are at hand. RADEX and the Technical Editor both hope that every one of our large family of readers derives the largest possible measure of happiness the season affords. We in America enjoy this holiday in peace, while at the same time through the medium of radio we learn of the welfare of our friends across the seas, to whom we wish the happiest New Year that troublesome times in those war-torn lands will permit.

We are reminded that this is the season for new radios. As Christmas gifts the new radios rank high in importance. They come from the factory in perfect condition, and are guaranteed generally for 90 days or more. Some of them, of course, will be abused through ignorance and carelessness. A few others are certain to give some trouble. The law of averages provides for that. But radios now days are good, and seldom give trouble because of sloppy assembly or cheap and inferior parts. As it is, any reliable manufacturer is more than willing to try to please when his new product fails to satisfy.

The new sets for 1940 are less replete with strange gadgets, internal devices and circuits, than any previous year. Electric tuning, cathode-ray eyes, push buttons, and metal tubes are old stories. Even the current television adaptability has failed to excite amazement. New radio refinements consist principally of improvements in cabinets, speakers and controls, not to mention, of course, the essentials of increased sensitivity and range on the short waves. Of course, we are hearing, too, of the built-in aerials, but, after all, the good old-fashioned outdoor antenna still is the radio listeners' best friend.



Andrea Televisors. At the top is the easily-built kit, and the table model cabinet is shown below.

It is to this army of newcomers in the radio game, as well as old-timers who will be perhaps a bit confused by the intricacies of their new models, that we open the New Year by anticipating their future troubles. RADEX, as always, will continue to assist its readers with their service problems as far as it is practicable to do so at long range. Write briefly and list your troubles clearly. In those obvious cases where expert service work is clearly indicated, an experienced serviceman is needed, and it is the policy the Technical Staff to so advise. Only in exceptional cases can the Editors of this publication conscientiously advise the average set-owner to plunge into the myster-

ies of his radio for the purpose of making repairs of alterations. Any advice that is given is intended as a guide for possible discussion with the serviceman, or to provide something tangible for the set-owner to seize upon when deciding whether to do the work himself or call in a repairman.

The large number of letters that have crossed the Technical Editor's desk since we last discussed our readers' troubles have been of unusual interest, but many in the following group should appeal to the newcomers in the 1940 radio field.

What causes radio stations to fade?

Natural fading is a phenomenon quite beyond the control of the broadcasting radio station and the listener. Due to the complexity of radio broadcasting this subject is one that could be made to fill a book. Briefly, however, a radio wave, once it is emitted from the transmitting station antenna, must pass through space. It does not follow a direct line, but travels much as a beam of light would if it were flashed on an angle up to some surface high overhead, then reflected back to earth, back overhead, again back to earth, until the waves are made to pass entirely around the earth in a "saw-toothed" surge. This upper surface is variously called the "radio ceiling", "ionosphere", or "Heaviside Layer." Variations in the height, evenness, reflecting powers, absorbing qualities, etc., of the ceiling tend to determine whether the radio wave can at that time travel far or be quickly absorbed. Irregularities in reflection cause fading, for this lofty surface seldom remains smooth or at ease. Its height varies between day and night. Magnetic storms and the effects of sun spots or solar radiation affect the composition and ionization of the radio ceiling. If such does not cause severe fading, it absorbs signals so badly that we can hear few distant stations at that time. Inference at certain distances from the broadcasting

station between the ground and space waves causes severe fading, and this usually occurs when a station is relatively near by, although other stations come in steadily and are seldom known to fade. When a station is far away and the wave is reflected back and forth several times between the ceiling and the earth some fading is certain to occur.

What can the radio receiver do to prevent fading? Modern sets are designed to overcome fading to a certain extent. Beyond that radio engineers are powerless to overcome natural fading. All radios now have built-in automatic-volume-controls. When a signal begins to fade it weakens, and this action affects the a. v. c. so that it begins to boost up the fading signal just as if you were turning up the manual volume-control knob. As long as the fading brings some energy to the antenna the a. v. c. will keep the signal at an audible level. However, the noise level of the set and other interference may become so prominent that the fading signal is rendered unintelligible. But as soon as the signal fades entirely there no longer is any energy in the aerial for the radio and the a. v. c. system to amplify, and the set becomes momentarily dead. There is nothing that can be done except to wait for the signal to reappear. As the signal comes back, the a. v. c. cuts down its maximum amplifying power in proportion to the signal, and when the received energy is back to its original intensity the a. v. c. goes out of action entirely.

Is fading caused by the broadcasting station? Fading can be caused by the transmitter failing to emit a steady flow of energy. If the output of a broadcasting station varies due to fluctuations in the power sent into the aerial, the signal will fade at the receiver. Also, fading will appear at the receiver when the transmitted signal "swings" or changes frequency slightly due to faulty capacity units or inductances. In either of the above

cases the operators of the station in question are in for a lot of explaining when the Federal Radio Commission montior stations check up on their failure to maintain constant frequencies and output of power. A swinging signal from a broadcast station can be easily discovered if, when the signal is fading, the tuning knob be turned ever so slightly in either direction so as to increase the signal. A steady manipulation of the knob, by turning it slowly back and forth, will keep the receiver in tune to the swinging signal. This trouble, then, is clearly the fault of the broadcaster, and should be corrected as soon as discovered.

Can two stations on the air cause fading of either? This form of fading is the result of signal interference. When two signals on the same or nearly identical wave lengths or frequencies are both within receiving range of the set, neither one nor the other will be clearly intelligible. This is due to the "heterodyning" effect, which is the result of a wavering "beat" note set up by the interference between the two different frequencies of the signals. The signals, therefore, appear to die down and become loud at rapid intervals. Such trouble is created in the set, perhaps because it is not sufficiently selective or is too small. Repeating of a station at different points on the dial is due to similar trouble, and these repeat points or "images" can cause interference with a signal properly received at the same point on the dial but which is found to fade rapidly. Frequently the use of a good wave trap, a pre-selector, or some attention to the tubes and adjustments of the receiver, will eliminate much of this sort of fading interference.

Is it possible for the receiver to cause fading? Other than the effects noted in the paragraph above, fading also can be caused in a receiver when one or more parts have become defective. The first suspicions should be

turned to the tubes, particularly those using indirect-heating of the cathode. Often this form of defect is not indicated on the ordinary tube tester, and substitution tests provide the most satisfactory method for discovering the trouble. Radios develop fading inclinations when radio-frequency coils leak because of dampness or corrosion; capacities vary slightly through defects or poor contacts; inductances change because of dampness or loose supports; or mechanical weakness in some of the tuning units causes them to slip slightly and throw the station out of tune. These de-tuning effects make the signal fade until the set is retuned. We often speak of this de-tuning as "signal shifting."

Why do some stations fade more than others? If a radio station is a consistent fader, there always is present the possibility that something is wrong with the transmitter. However, persistent fading, night after night, indicates a natural condition over which man has no control. This was mentioned in a preceding paragraph, when the ground and space waves interfere at intervals to cause severe fading from a station that is not far distant. In this case a station would appear to fade more than others situated beyond the range of the ground wave. Certain local conditions sometimes combine to make one station a bad fader. This was the case with radio's pioneer station KDKA at Pittsburgh, Pa., for listeners situated along the Atlantic coast.

A sales-man tells me that the number of tubes in a radio is not always an important consideration when buying a new set. Is this true? It is a fact that the number of tubes in a set does not always give an indication of its ability to perform in proportion to the number of tubes. Sometimes there are additional tubes, such as a ballast tube, tuning eye, beat oscillator for detecting CW signals, and more frequently, a series of

audio tubes in parallel to improve the current-carrying capacity without overloading. Such sets may have four audio output tubes when two will do the work. The extra tubes provide additional tone values so as to produce high-fidelity of reproduction. But a set with all these extra tubes may not be any better than one having less tubes when it comes to actual distance and sensitivity. It all depends upon the circuit whether a multi-tube set is any better or equal to a set with fewer tubes. After all, the essential tube complement in a radio is all that is absolutely necessary for reception, and the additional tubes are mere refinements for better operation and improved tone or greater volume.

Why it is not possible to get foreign stations whenever I want them? I bought a good short-wave set so that I could do this, but the set fails me once in a while. You could get good short-wave reception at all times if nature did not have moods. When certain conditions exist, such as poor conductivity through space due to magnetic storms or absorption along the radio ceiling, the finest set on earth cannot pick up signals that do not come through. The sun is blamed for much of this effect when sun-spots are rampant, but the weather is known, too, to prevent reception over those areas where certain meteorological conditions exist. Sometimes a wave band, particularly about 10 to 20 meters, will close up entirely without warning and then suddenly open for a time.

I bought a new radio and already have had it serviced 3 times. My old radio was 7 years old and had never given trouble by failing. Is it a fact that new radios do not hold up like the older ones? The new radios are good radios and carefully made and inspected. However, it might be well for all radio owners to get this fact well rooted in their minds: New radios are more powerful and utilize

much higher voltages than the older sets. This fact throws more stress and strain, electrically speaking, on the parts of the circuit. Resistors and condensers, as well as transformer windings, are heavily loaded. If any part weakens (for a chain is no stronger than its weakest link) the strain becomes severe and before long something gives way. A new set, if of reputable manufacture, should contain only the best materials capable of insulating against high voltages, and, therefore, is not subject to undue servicing. Radio engineers now take into consideration the strains under which a modern radio operates, and make allowances accordingly. However, it is possible for a weak part to appear perfect at inspection time although it breaks down under constant use. The 90-day guarantee on a new radio takes care of this possibility and protects the purchaser.

I recently purchased a Philco 17-T with a built-in aerial. But it has terminals for aerial and ground also. For DXing should this set be used with an outside antenna? Built-in aeriels are good for local reception and distance with the volume turned high and noisy. A good outdoor aerial still is your best bet for DXing. A T type with ground will be good unless static noise demands the use of a noise-reducing type or doublet. From 40 to 60 feet in length will be ampe.

My new portable A. C.-D. C. radio some times brings in a station fine, but when it is moved to another location the station is weak. On the other hand just the opposite action frequently is noted. Why is this? The new portables nearly all have built-in aeriels, known as Wave Magnets, Beamascope, etc. They are really small loop antennas having definite directional qualities. The set should always be placed so that one end points toward the place from which the signal is coming. When

(Please turn to page 60)

DXer's Picture Gallery



Walter E. Bishop, a DXer for four years, with 1008 ham stations in 41 countries and in 46 states to his credit.



Mervyn Branks, "The Southlander," is a well-known New Zealand DXer. Besides being a member of the Radex Club (R276 N. Z. 1), he is also a

member of four Australasian DX Clubs, and editor of the N. Z. DX-tra, the monthly bulletin of the N. Z. DX Club. Merv. has been DXing 12 years and has verified over 500 stations on the broadcast band, and is the holder of the six RADEX Plaques for verifying all continents.



DXer John Gawell of Buffalo, N. Y.



Some of the receiving equipment, a few of the SW verifications, and a large hand-made map are shown in this corner of the listening post of Graham D. Hutchins of Maribyrnong, Australia.



HIGH FREQUENCY BROADCAST STATIONS

Call	Kcs.	Watts	Location
W1XEQ	42300	100	E. Anthony and Sons, Inc., Fairhaven, Mass.
W1XER	42340	500	Yankee Network, Inc., Sargents Purchase, N. H.
W1XKA	42220	50	Westinghouse Elec. and Mfg. Co., Boston, Mass.
W1XKB	42220	50	Westinghouse Elec. and Mfg. Co., E. Springfield, Mass.
W1XKB	42380	1000	Westinghouse Elec. and Mfg. Co., E. Springfield, Mass. (Under construction).
W1XOJ	43000	50000	Yankee Network, Inc., Paxton, Mass. (Under construction).
W1XPWF	43400	1000	WDRC, Inc., Meridan, Conn.
W2XDA	43200	50	General Elec. Co., Schenectady, N. Y.
W2XDG	42420	150	National Brdcstg. Co., Inc., New York City.
W2XDV	42300	50	Columbia Brdcstg. Sys., New York City.
W2XHG	42060	150	National Brdcstg. Co., Inc., New York City.
W2XJI	25300	100	Bamberger Brdcstg. Serv. Inc., New York City.
W2XMN	42800	40000	Edwin H. Armstrong, Alpine, N. J.
W2XMN	117430	40000	Edwin H. Armstrong, Alpine, N. J.
W2XOY	43200	150	General Elec. Co., Albany, N. Y.
W2XQO	25500	100	Knickerbocker Brdcstg. Co., Flushing, N. Y.
W2XQR	41200	1000	John V. L. Hogan, New York City.
W2XQR	43200	1000	John V. L. Hogan, New York City (Modification of construction permit pending).
W2XSN	432000	1000	Paul F. Godley, Alpine, N. J.
W2XVP	26100	1000	City of N. Y. Municipal Brdcstg. Sys., New York City.
W2XWF	42180	1000	Wm. G. H. Finch, New York City.
W3XES	42100	300	Monumental Radio Co., Baltimore, Md.
W3XIR	42140	100	WCAU Brdcstg. Co., Philadelphia, Pa.
W3XO	43200	1000	Jansky and Bailey, Georgetown, D. C. (Under construction).
W4XA	26150	1000	National Life and Accident Ins. Co., Nashville Tenn.
W4XBW	26000	100	WDOD Brdcstg. Corp., Chattanooga, Tenn.
W4XCA	26150	250	Memphis Commercial Appeal Co., Memphis, Tenn.
W5XAU	26125	100	WKY Radiophone Co., Oklahoma City, Okla.
W5XD	25300	100	A. H. Belo Corp., Dallas, Texas.
W6XDA	42300	100	Columbia Brdcstg. Sys., Los Angeles, Calif.
W6XKG	25950	1000	Ben S. McGlashan, Los Angeles, Calif.
W6XRE	42300	500	Ben S. McGlashan, Los Angeles, Calif.
W6XRE	116950	500	Ben S. McGlashan, Los Angeles, Calif.
W6XRE	250000	500	Ben S. McGlashan, Los Angeles, Calif.
W8XKA	42220	50	Westinghouse Elec. and Mfg. Co., Saxonburg, Pa.
W8XKA	42600	1000	Westinghouse Elec. and Mfg. Co., Saxonburg, Pa.
W8XNT	42340	50	United Brdcstg. Co., Cleveland, Ohio.
W8XNU	25950	1000	Crosley Corp., Cincinnati, Ohio.
W8XWJ	42060	500	Evening News Ass'n., Detroit, Mich.
W9XA	26000	1000	Commercial Radio Equipment Co., Kansas City, Mo.

W9XAZ	42260	500	The Milwaukee Journal, Milwaukee, Wis.
W9XBA	26100	100	WHB Brcdstg. Co., Kansas City, Mo.
W9XBS	42180	100	National Brcdstg. Co., Chicago, Ill.
W9XER	42460	500	Midland Brcdstg. Co., Inc., Kansas City, Mo.
W9XH	26050	100	South Bend Tribune, South Bend, Ind.
W9XHW	42300	50	Columbia Brcdstg. Sys., Minneapolis, Minn.
W9XJL	26100	250	Head of the Lakes Brcdstg. Co., Superior, Wis.
W9XLA	25400	100	KLZ Brcdstg. Co., Denver, Colo.
W9XOK	25300	100	Star-Times Pub. Co., St. Louis, Mo.
W9XPD	25900	100	Pulitzer Pub. Co., St. Louis, Mo.
W9XTA	26000	500	Schonert Radio Serv., Harrisburg, Ill.
W9XYH	26300	1000	Head of the Lakes Brcdstg. Co., Superior, Wis.

BELOW 10 METERS

● You are losing out if you don't hear the UHF's which your radio is capable of bringing you. The simple addition of a 50c converter brings you your share of over 1,000 experimental television, police, facsimile, and broadcast stations besides additional thousands of amateurs on Ultra High Frequencies. Buy this complete, postpaid, guaranteed, and tested UHF converter for any superheterodyne which tunes to 15mc., for 50c from Princeton Radio, Dept. D, 15889 Princeton, Detroit, Mich. Not a diagram! We have never received a complaint! Order today!



The New Zealand DX Club, the oldest organization of the kind in the southern hemisphere, has been completely reorganized and the Auckland Branch has taken over the duties of headquarters with Mr. Frank Hutchins, 6 Levonia Street, Auckland, S. W. 1 as president and Mr. Bill Lewis, 17 Ethel Street, Auckland, S. W. 1, as national secretary. The club publishes a monthly bulletin, which contains full news of the stations "down under," the editor being Merv. Branks, 5 Dublin Street, Invercargill.

Membership is open to all DXers, the dues being 1 dollar 25 cents for the first year and 75 cents thereafter. Applications for membership may be sent to the secretary or editor, payment being accepted in 3c stamps.

The Cincinnati Chapter of The Newark News Radio Club is a new and growing organization in the city of Cincinnati, Ohio. This chapter was started by George H. Jacobs, vice-president of the parent order and now president of the chapter. The Cincinnati Chapter meets at the home of George H. Jacobs at 311 Seitz St., in that city on the first and third Saturday evenings of every month. In the local chapter's membership are such members as WKRC's program director; WCKY's best announcer; Cincinnati's leading newspaper radio editor, business men and all round swell fellows and gals in all fields.

The Cincinnati Chapter of the Newark News Radio club has a standing invitation to all DXers to visit with them at any of these meetings. Some of the activity of this club is furnishing intertainment for the blind people, finding lost relatives via radio, teaching radio, answering questions of prospective buyers of receivers, showing visitors to the city, the various stations, introducing them to the station staffs, arranging for them to watch broadcasts, and serving the people of Cincinnati in many other ways. In Cincinnati will be found the official Ohio outlet for The News Radio Club in Radio Station WKRC.

HIGH FREQUENCY GLOBE TROTTING

By Ray La Rocque



Report-o-Meter	
G. R. Jewell, Jr.	100%
Robert Skyten	46%
M. F. Williams	25%
Carl Horton	13%
Alton Caldwell, Jr.	10%
Bertram Podall	10%



Our select five becomes a group of six month, the unusual situation being created by a tie for fifth place. Judging from the meter, New England must have been a good place for DX signals during the past month, for four of the six boys who reached Report-o-Meter honors this month hail from New England. Skyten, Horton, Caldwell, and Podall are reporting from this group of states, while Williams does his DXing not too far from New England in the state of New Jersey. It remained for the South to come out on top of the meter as Montgomery Alabama's G. R. Jewell did a jewel of a job in out-distancing his nearest rival by more than 50%.

We must not forget to award a few honorable mentions. The following came very close to registering in the meter: Ralph Simpson, Jack Welsh, Eddie Hirsch, Oscar Sandoz, and John D. Long.

ASK US ANOTHER

Please read these next few paragraphs carefully. In it you may find the answer to one of your DX puzzles or mystery stations. Or you may find that you possess the solution to

some other DXer's problem. If such is the case, please forward the answer directly to that person as it will reach its destination much sooner than it can by replying through RADEX.

At 1:15 a.m. a station speaking German was heard until 2 a.m. on 13800 kcs. It was not Warsaw. Another German station is on 14400 kcs. at 6 p.m. If you have any identification please send to Bertram Podall, Gilman, Vermont. . . . Joseph Schwartz of Bronx, New York would like to know more about the Cuban station on 4390 kcs. announcing as COXF. Address Radexer Schwartz at 1355 Morris Ave. . . . "What is HVJ's veri policy?" is the query of Art Hankins, 1006 Ligonier St., Latrobe, Pa. He continues, "I sent a fine report last December and never heard from them. The same goes for PCJ."

G. R. Jewell, Jr., 222 S. Court St., Montgomery, Alabama asks: "On October 29th at 12:30 a.m. I was running the dial when I stumbled upon a mystery station on or about 14600 kcs. with a signal of R5. The station seemed to be either a Chinese or some other Asiatic station. There was a drama and music that sounded very oriental. Can anyone give me a helping hand in determining the origin of these signals. . . . A Chinese station also bothers Al Kempton, Harding, Mass. He'd like infor-

Readers living in the Eastern and Central Standard Time Zones may send their reports direct to

Ray LaRocque
4 Wachusett St.,
Worcester, Mass.

mation regarding the one heard on 11790 kcs. with R9 signal just below JZJ on 11800 kcs. It was not JZJ as they came on at 7 a.m. Can anyone solve these mysteries?

Alvin W. Oliver, Houston, Texas heard a station on approximately 11680 kcs. with recordings and announcements in Spanish. Call sounded like CXA-9 but he's not positive about the "9". However it was definitely a OX or Uruguayan station. (Aside to Radexer Oliver: Your other station was ZIK-2 at Belize, British Honduras—RL)

C. C. Lance of 1331 South 34th street, Birmingham, Alabama writes as follows, "Tonight for an hour and a half from 7-8:30 p.m. I heard a station on approximately 7960 kcs. broadcasting oriental music. Later there was piano music and choral singing with announcements in Chinese. At the end of the program announcements came in Spanish which identified the station of OAX1A, Chiclayo, Peru. They then signed with 'Good Night Waltz'. OAX1A is supposed to be on 6335 kcs., how come." . . . Edward H. Draper, RFD #2, c/o Mrs. Ezra John, West Burke, Vt., would appreciate it very much if any member can identify a station that he heard on 17700 kcs. signing off at 5 p.m. with two marches. Announcements at sign-off indicated that the station would return at 12:30 p.m.

Carl Horton of Athol, Mass., sends along the news that ZEA is heard giving news on Sundays on an announced frequency of 5990 kcs. . . . Alton Caldwell, 69 Britt St., Brockton, Mass. has been hearing a Spanish speaking station daily near noon on about 31000 kcs. The call has never been identified. Has anyone else heard this station? . . .

QUOTE AND UNIQUE

Charles A. Mills, Strathroy, Ontario: "I have been a reader of your magazine for about six months and would like to be enrolled as a member of the RADE Club. I have been

DXing for about a year on the broadcast band and the farthest stations verified are KNX, KPO, and FKL. I am just a beginner on the short-waves."

G. R. Jewell, Jr., 222 So. Court Street, Montgomery, Alabama: I would like to correspond with DXers living in any foreign country. I will exchange stamps and picture post cards in the first letter."

ULTRA HIGH

A practical use of the ultra high frequencies not widely known is that of the Detroit Edison Company and its station WQJL on 39660 kcs. with 150 watts. The station is located in the company warehouse. The antenna, atop a 200 ft. tower is equipped with aircraft warning lights. No longer experimental, the station has a definite purpose. It flashes emergency. Results thus far have been highly successful and progress is still being made with plans for a two-way communications ready to materialize. (George H. Boorstein, W8TLI, Detroit, Mich.)

WALJ on 31460 kcs. Antenna is being erected on the Barlum Tower in Detroit. The transmitter, operated by the Department of Street Railways is used to direct traffic control cars, to re-route bus, street in co-operation with the police department. (Boorstein, Mich.)

WCK-WPWX on 33780 kcs., the Detroit Police Department has ten mobile transmitters for each call. Boorstein, Mich.)

WMO on 33220 kcs. the Highland Park, Mich, police has seven mobile transmitters. (Boorstein, Mich.)

WQYQ is a new Mass. state Dept. of Conservation station located in Middleboro, Mass. this month. (Caldwell—R1319, Mass.)

W1XEH is a new frequency station in Hartford, Conn. They operate on 42460 kcs. with 150 watts output. (Benson—R1374, Mass.)

W1XKA on 42220 kcs. has not been on the air lately. (Simpson—R1253, Mass.)

WIXOV of the Yankee network testing with airplane besides daily weather contacts with WIXOY at Mt. Washington on 27500 kcs. (Caldwell—R1319, Mass.)

W1XSO under construction in Hartford, Conn. will be another Frequency modulated station and will operate on 43200 kcs. with 1000 watts. W1XSO will be on the air by Jan. 1, 1940. (Benson—R1374, Mass.)

W1XW on 31000 kcs. approx.) heard testing. This station is the weather observatory of Harvard College on Mt. Blue. (Caldwell—R1319, Mass.)

Atlantic Communications Corp. of Philadelphia operates the following stations on 38600 kcs: "W3XAY, W3XAZ—S. S. Van Dyke #4, W3XDE—S. S. Van Dyke #1, W3XDF—S. S. Van Dyke #2, W3XDG—S. S. Van Dyke #3, W3XHD—S. S. Atlantic, W3XDK—portable mobile, W3XDL—also portable mobile. . . . The Pennsylvania Dept. of Forests and Waters, Bureau of Forest Protection has the following stations: W3XDW, W3XDX, W3XDY, W3XDZ, all portable and W3XEA at Lykens, Pa., W3XEB at Harrisburg, Pa., and W3XEC at Stony Mount, Pa. (Schwartz—R1109, N. Y.)

W8XWJ on 42060 kcs. is now making field intensity and noise level tests. (Boorstein, Mich.)

W9XA on 26450 kcs. is heard with R8 signals on Sunday afternoon. (Podall—R946, Vt.)

W9XOK on 25,300 kcs. at St. Louis, Mo. has been heard well since October 23 relaying KXOK. Signals very steady and R 6-8. (Caldwell—R1319, Mass.)

W9XPD on 25950 kcs. at St. Louis, Mo. has a good signal daily. It relays KSD, owned by St. Louis oPst Dispatch. (Caldwell—R1319, Mass.)

NOT SO SHORT WAVES

WCOF "Betty Gardner" on 2739 kcs., KFQA and WPLQ on same frequency., NMN at Norfolk, Va. on 2670 kcs. R9, NMD on 2690 kcs. R8;

NMC on 2560 kcs. R 4-5; WWN on 2680 kcs. R9; WWZ on 2662 kcs. R7; WWOE on 2585 kcs. WOU on 2515 kcs. R6; WAE on 2555 kcs. R9, NMY on 2670 kcs. R9; WAY on 2530 kcs. R9; WWOJ on 2582 kcs. R9; WWOI on 2670 kcs. R9; and WWGX at Milwaukee on 2672 kcs. R7. The above stations were all heard in less than an hour. The time was near 11 p.m. (Welsh—R790, Ill.)

KBCT is now on 3195 kcs. . . . KBBDP on 3213, KBAK and KBGG on 3265 kcs. KBCH, KBDB, KBDD, and KBDE on 3345 kcs. KBDY on 3398 kcs. KBAN, KBCE, KBCE, and KBCE, and KBDC on 3438 kcs. Stations not listed and probably deleted are KBDJ, KBFK, WWKK. . . . Lighthouse stations: KBGF "Tender Columbine"; KCBG at Point Arguel-la, California; KCBW and KCK "Columbia R. L. S. Oregon"; KCEM at Blunt Reef L. S., Calif.; KCO at Relief L. S. #76, Calif.; WRS at Chesapeake. S., Va.; WSD at Fryling Pan Sheal, N. C.; WWAJ at Montou Island, Mich.; WWBQ at Sandy Point L. S., Md.; WWR at Detroit L. S. Depot; WWXT at Brandywine Shoal, Del. (Roman—Ill.)

Weather reports are heard on WAY—2182 kcs. at Lake Bluff, Ill., WMI on 2550 kcs., W W M C, WWMO, WWME on 2770 kcs., CZ7I and CZ7J on 2318 kcs., WAS on 2550 kcs., WOX on 2530 kcs., and KJQF on 2740 kcs. (Podall—R946, Vt.)

WHSB, KJDY, WHYZ all locations unknown heard near 2700 kcs. WWHF, WWHJ, WWDW, WWHT also unknown on 3380 kcs. (Caldwell—1319, Mass.)

SHORTWAVES IN REVIEW

Argentina

LRA-5 on 17830 kcs., of Buenos Aires broadcasts on Fridays between 2 and 2:30 p.m. (Williams—N. J.)

LRU on 15290 kcs. is being heard now for the first time in several months with good signals until 10 a.m. (Jewell—R834, Ala.)



A green and black card from HC2HP. (Courtesy of Carl Horton).

LRX on 9660 kcs. at Buenos Aires is showing up with R8 signals from 8-10:30 p.m. They often feature an American orchestra playing in one of the leading hotels. They verify by white card with light blue-grey call letters. (Jewell—R834, Ala.)

Australia

VLR on 9580 kcs. at Melbourne is being heard lately with very good signals up to R8 from 5-6 a.m. (Jewell—834, Ala., and Scholz—R9, Mo. 1)

Bahama Islands

ZNS verified recently. They stated that they have a shortwave station on 6090 kcs. using 200 watt power. (Chamberlain, R32, N. Y.)

Belgium

ORK on 10330 kcs. located at Ruysede heard daily with good signals from 1:30-3 p.m. with program directed to Belgian Congo. (Skyten—R786, Mass.)

PSH on 10220 kcs. at Rio de Jan-

Brazil

eiro is putting an R 8-9 signal. English program is still being broadcast every Monday from 8-8:30 p.m. (Jewell—R834, Ala.)

British Guiana

VP3BG on 6130 kcs. at Georgetown is heard from 4-8 p.m., but VP3BG has been badly QRM'd lately. COCD is probably the cause. The QRA is British Guiana United Broadcasting Co., Ltd., P. O. Box 11, Georgetown. (Jewell—R834, Ala.)

British Honduras

ZIK-2 of Belize is now broadcasting on Tuesdays, Thursdays and Sat-

urdays from 8:30-9 p.m. (Williams—N. J.)

Canada

CFRX on 6070 at Toronto heard relaying broadcast station CFRB with a program of dance music. Address: Rogers Radio Broadcasting Co., 622 Fleet St., Toronto. (Jewell—R843, Ala.)

CJCX on 6010 kcs. broadcasts daily from 7 a.m. to 12:30 p.m. and Sundays from 10 a.m. to 11:30 a.m. (Grant—N. S.)

Chile

CB1174 on 11745 kcs. heard relaying CB93 during the evening. Slogan is "Radio Hucke", and address P. O. Box 6009, Santiago. (Williams—N. J.)

China

XGOX on 15200 kcs. is now at Szechwan and heard daily coming on the air at 9 p.m. with the Chinese National Anthem with program for North America and Japan. News in English from 9:50-10 p.m. XGOX now signs off at 10:45 p.m. with the Sun Sen Memorial Song. (Skyten—R786, Mass.)

XGOY on 11900 kcs. also at Szechwan broadcasts news in English at 6:15 a.m., 9 a.m., and 5 p.m. They are best heard here at 6:15 a.m. (Skyten—R786, Mass., and Kempton, Mass.)

XGOK on 11650 kcs. at Canton heard from 6:40 to around 8:50 a.m. Program in English from 7:50-8:30 a.m. with news at 8:10 a.m. A lady announces. Signal at times is very strong and clear. Relays XGOK on 780 kcs. (Skyten—R786, Mass.)

XMHA on 11910 kcs. heard October 7 from 5-5:30 a.m. with Chinese music, also with weak signal. (Jewell—R834, Ala.)

XOJD on 6880 kcs. heard from 5:45-8:45 a.m. with R3 signal. (Horton—R1305, Mass.)

XBW13 on 9526 kcs. at Hong Kong is very badly QRM'd by KBEI at San Francisco. (Welsh—R790, Ill.)

Colombia

HKF on 9710 kcs. at Bogota was

heard with R8 signal on Sept. 30 from 10-11:30 p.m. Program consisted of South American popular recordings.

HJ3CAX on 6012 kc. at Bogota signs on nightly at 5:30 p.m. and continues until 11:30. Sunday from 6-11 p.m. Song "Indian Love Call" is used at sign off. (Jewell—R834, Ala.)

Costa Rica

TIEM on 10050 kcs. is being heard nightly with both popular and Spanish music from 7-11 p.m. Address: Aptdo. 1040, San Jose. Clock chimes the hour of nine at 10 p.m. (Jewell—R834, Ala.)

TI2RH on 6152 kcs. at San Jose heard relaying TIRH during the early evening. (Williams—N. J.)

TI4NRH on 9682 kcs. at Heredia is heard Tuesday, Thursday, and Saturday from 9-10 p.m. with program in English for the United States. Ten cents in United States stamps are requested instead of IRC's when writing for verification. (Jewell—R834, Ala.)

Cuba

COKG has shifted from 8965 to 8950 kcs., COCX from 11740 to 9155 kcs., COCA from 9100 to 9090 kcs., and COBC from 9990 to 9360 kcs. (Williams—N. J.)

Denmark

OZF on 9520 kcs. at Copenhagen is being heard nightly with English announcements at 10:55 p.m. and signing off with R9 signal. Clock striking 5 a.m. and National Anthem are heard at sign off. (Jewell—R834, Ala.)

OZH on 15320 kcs. is now broadcasting between 1 and 1:30 p.m. daily with the additional 8 a.m. to 1:30 p.m. on Sundays. (Williams—N. J.)

Dominican Republic

HI-2M on 6993 kcs. at San Pedro de Macoris broadcasts irregularly. (Williams—N. J.)

El Salvador

YSM on 11710 kcs. at San Salvador is heard in the afternoons from 1-2:30 p.m. (Jewell—R834, Ala.)

YSP on 10400 kcs. at San Salvador is heard with R8-9 signal from 8-11

p.m. playing popular dance music and featuring marimba music. (Jewell—R834, Ala.)

Finland

OIE on 15190 kcs. and OFD on 9500 kcs. at Lahti broadcast news in French at 4:20 p.m., news in English at 4:30 p.m., followed by news in German. (Skyten, Mass.)

France

"Paris Mondial" on 9680 kcs. is QRM'd badly by WCBX on 9670 kcs., and TGWA on 9685 kcs. News in English is given daily at midnight. Same program broadcast over 11885 kcs., and 11718 kcs. All signals R8 plus. (Scholz—R9, Mo. 1)

"Paris Mondial" on 11843 kcs. transmits to North America from 12:30-1:30 p.m. replacing TPA-2. Signal is very strong and clear. A few minutes later it returns to the air to join other transmitters of "Paris Mondial" on regular afternoon program. Reports requested. (Skyten—R786, Mass.; and Hirsch—N. Y.)

"Paris Mondial" on 11885 kcs. heard with R9 signal. New mailing address is Paris Mondial, 102 Rue Grenelle, Paris 7, France. (Caldwell—R1319, Mass. and Graham—R76, Texas)

"Paris Mondial" on 15243 kcs. is being heard daily with an English program for North America from 12:30-1:30 p.m. with music and talks. (Jewell—R834, Ala.)

French Indo China

"Radio Saigon" on 11780 kcs. transmits from 10:30 a.m. to around 11:45 a.m. with programs in English directed to North America. News in English at 10:30 a.m. At 11 a.m. the BBC news from London is relayed at the conclusion of which they sign off with "La Marseillaise", the French National Anthem. Lady announcer. Requests reports be sent to "Radio Saigon" P. O. Box 412, Saigon, French Indo China. (Skyten—R786, Mass.)

Germany

Official schedule of the German shortwave stations is as follows: 6:30 a.m. to 9:00 a.m. on DJB (also 11:10

a.m. 12:25 p.m. on Sun.) 4:0 p.m. to 1 a.m. on DJD and DXB. Germany has cut-down on its monthly printed program booklet and now issues just a single sheet. Listeners are requested to tune in DJD or DXB at 4:55 daily for latest program and schedule changes. Stations other than those listed above are merely experimental. (RX)

DJBB on 15200 kcs. heard on the extended morning program from 6:30-9 a.m. with news in English at 6:45 and 8:30 a.m. (Skyten—R786, Mass.)

DJX on 9675 kcs. is used in place of DXB occasionally on week-ends carrying English programs on same transmission as DXB. (Jewell—R834, Mass.)

DXB on 9610 kcs. is heard with a very strong signal which drowns out everything within 10 kcs. of its channel. News in English is heard at midnight. (Simpson—R1253, Mas.; Jewell—R834, Ala.; Gilgen—R820, Iowa.; Caldwell—R1319, Mass.)

DZC on 10290 kcs. heard daily from 4:50-10:50 p.m. with program in Portuguese. (Skyten—R786, Mass.)

DZG on 15360 kcs. heard with DXB coming on the air at 11:30 a.m. with program in Arabic. (Skyten—R786, Mass.)

DJL on 15110 kcs. along with DJD on 11770 kcs. heard at 4:15 p.m. with news in English. (Skyten—R786, Mass.)

New and unidentified station in Germany heard on 11990 kcs. heard coming on the air at 1 a.m. and at various times during the day. (Jewell—R834, Ala., and Skyten—R786, Mass.) Unidentified station reported by Simpson—R1253, Mass. on 10280 kcs. should be DZC, actually 10290 kcs. (RL—Mass.)

Great Britain

Changes in the BBC official schedule since last month's listings: Transmission I closes at 5 a.m. instead of 5:15 now., Transmission II and III closes at 11:45 a.m. instead of noon, and Transmission IV begins at 11:52 a.m. instead of 12:22 p.m. Station

changes: GSC added to Transmission I; GSE and GSD added to Transmission II and III while GST is dropped from that same transmission; GSV added to Transmission IV while GSG and GSO drop off that schedule; GSE replaces GSF on transmission V. (RX)

GRX on 9690 kcs. is being heard with strong signals. "X" for Extra. (Jewell—R834, Ala.)

GSA on 6050 kc. is being used to cover Europe during the fifth transmission along with GRX 9690 kcs. (Scholz, R9, Mo. 1)

Greece

Following is a list of stations soon to be heard from Sparta, Greece. Power for all transmitters is 10 kw. and both phone and c.w. will be used. SVD—6885 kcs., SVL 7228 kcs., SVG 7805 kcs., SVH 9030 kcs., SVI 9695 kcs., SVJ 9825 kcs., SVM 9935 kcs., SVN 10725 kcs., SVP 12195 kcs., SVQ 13640 kcs., SVT 15015 kcs. Some of these stations should be in operation by the time this is read so let's see who will be the first to hear Greece. (Jewell—R834, Ala., and Williams—N. J.)

Guatemala

TGWA with 10 kw. sends a neat verification card with a picture of a Quetzal bird in natural color. The card is white with blue print. No return postage necessary for verification. (Bates—R1231, Pa.)

TG5JG on 11750 kcs. was heard on October 8 with a Spatari program. Location is Guatemala City. (Grossman—R1330, N. Y.)

Honduras

HRN on 5875 kcs. at Tegucigalpa is always a safe bet for the DXer as they are on the air with good signals from 8 p.m. to midnight. (Sign-off theme is "Goodnight". (Jewell—R834, Ala.)

Hungary

HAT-4 on 9125 kcs. is on the air daily from 7-8 p.m. Saturday program is from 5:57 p.m. when a music box identification signal is heard. Program lasts until 7 a.m. with news in

English at 6:30 p.m. Address is Radiolabor, Kiserleti Allomasa, Gyali-ut 22, Budapest IX. (Jewell—R834, Ala., Takacs — Ohio, Sandoz — R1403, N. S. 5)

HAD on 21680 kcs. broadcasts between 11 a.m. and 2 p.m. and on 11850 kcs. from 2-6 p.m. and lastly on 9625 kcs. from 6-9 p.m. (Williams—N. J.)

India

VUB-2 on 9550 kcs. at Bombay heard on several mornings broadcasting cricket matches until 7 a.m. when they sign off. VUB returned a few minutes later on 4880 kcs. All India Radio transmitters on the 61 meter band broadcast news in English at 7:30 a.m. They are VUD-2 on 4960 kcs., VUM-2 on 4920 kcs., VUC-2 on 4840 kcs., along with VUB-2. VUM-2 is the best signal. (Skyten—R786, Mass.)

VUD-2 on 9590 kcs. at Delhi heard with very good signal from 7 a.m. until about 8:20 a.m. when they begin to fade. News in English is heard at 7:30 (Long—Ga., Jewell—R834, Ala., and Welsh—R790, Ill.)

VUD-4 on 15290 kcs. heard from 8:30-10:30 p.m. with weak signals. Clock strikes the hour on the half hour. (Jewell—R834, Ala., Hirsch—R1387, N. Y.). VUD-4 heard here at seven in the morning like a house-afire. Even rides over the neighbor's electric shaver! (Gilgen — R820, Iowa.)

Ireland

"Irish S. W. Station" official schedule according to verifications received: 7:30-9 a.m., 11:30 a.m. to 3:30 p.m. and 4:30 p.m. to 5 p.m. The station uses one of these two frequencies on alternate days: 17840 and 9595 kcs. (Horton—R1305, Mass., Grant—N.S.) "Irish shortwave station" reported on 17840 kcs. at 8:0 a.m. and on 9595 kcs. from 6:30-7 a.m. with good signals. Which must signify that they do not always adhere to the official schedule. (Skyten—R786, Mass., and Jewell—R834, Ala.)

Italy

I2RO-3 on 9536 kcs. is heard with

I2RO-4, and 6 and IRF nightly with North American program in English from 7:30-8:30 p.m., and continuing till 9 p.m. in Italian. Identifying signals at sign on and off are the songs of canary birds. (Hirsch—N. Y., and Jewell—R834, Ala.)

I2RO-6 on 15300 kcs. heard with an English program in the afternoons at 1:30 p.m. Along with I2RO-4 they are on till 6 p.m. (Jewell—R834, Ala., and Long-Ga.)

I2RO-15 on 11760 kcs. at Rome heard mornings coming in with a strong signal (Skyten—R786, Mass.)

JZI on 9535 kcs. at Tokyo is being heard from 12:20 a.m. with English program consisting of news, music talks. This program is heard on Thursdays and Saturdays.

JZJ on 11800 kcs. at Tokyo is being heard at 8:30 a.m. with English news, music and talks. (Jewell—R834, Ala.)

JZK on 15160 kcs. is heard from 8-9 p.m. with news in English at the beginning of the program. Signal is good at beginning but fades rapidly toward the end of the hour. (Takacs —R1383, Ohio, Simpson — R1253, Mass., and Sandoz—R1403, N. S. 5)

Java

PLP on 11000 kcs. at Bandoeng is again heard with R7-8 signals from 7-8 a.m. In parallel with PLP are PMN on 10260 kcs., YDB on 9550 kcs., and YDC on 15150 kcs. Popular and classical music is heard along with talks. (Jewell—R834, Ala.)

Manchukuo

JDY on 9925 kcs. at Dairen is putting in a good signal at last from 7-8 a.m. News in English is sometimes given shortly after 8 a.m. (Jewell—R834, Ala.)

MTCY on 11775 kcs. heard with fair signal from 1:30-2:30 a.m. Address is Shortwave Station, Central Broadcasting Station, Hsingking, Manchukuo. (Oliver-Texas, Scholz—R9, Mo, 1, and Jewell—R834, Ala.) MTCY also heard with good signal from 9:50-10:55 a.m. with English announcements. News in English at 10:35 a.m. In addition, MTCY is also

heard from 4-4:50 p.m. with an English program. (Skyten—R876, Mass.)

Mexico

XEQQ on approximately on 9700 kcs. heard at 12:40 a.m. relaying XEQ. (Chamberlain—R52, N. Y.)

XEWW on 9500 kcs. has an R8 signal here on Sunday evenings at 8:30 p.m. when they have news broadcasts until 8:39 p.m. Four descending chimes for identification. (Hirsch—N. Y.)

Netherlands

PCJ on 9590 kcs. heard with R9 signal. Eddie Etartz, genial announcer spoke out to those who were seeking war from JCJ. Listeners might just as well tune to some other station for JCJ has not, and will not broadcast any war news. (Jewell—R834, Ala.)

Newfoundland

VONK on 9510 kcs. broadcasts from 8:30 a.m. to 1:15 p.m. and on 5890 kcs from 4:30-8:30 p.m. Interval signal is three chimes, similar to NBC, They relay VONF. Kempton—Mass., Caldwell, Mass., Grant, N.S., Skyten — R786, Mass., Simpson—R1253, Mass.)

New Zealand

ZMEF on 9200 kcs. heard about once or white weekly with no definite schedule. Listen between 1:30 and 2:30 a.m. Location is an island near New Zealand. (Horton—, Mass.)

Nicaragua

YNDG on approximately 7550 kcs. heard with a weak signal. Reports are welcomed. (Chamberlain—R32, N. Y.)

YN3DG on 13900 kcs. verifies 100% for 10c in coin. They are on daily from 10:30 p.m. and often broadcast special DX programs. (Hiatt—Wash., and Podall—R946, Vt.)

Peru

OAX4T on 9562 kcs. at Lima is heard with R7 signal in the mornings from 7-8 a.m. Address is "Radio National" Preuvian Gov't. Ave. Petit Thouars 447, Lima. (Jewell—R834, Ala.)

Philippine Islands

KZIB on 9490 kc. at Manilla is heard from 5:30-8 a.m. with news and dance music relayed from one of Manila's leading hotels. Address: I. Beck, Inc., Box 440, Manila. (Jewell—R834, Ala.)

KZRF on 6140 kcs. are the call letters of the Manila station on that frequency. Announces a KZRF "Radio Filipinas". Announcements are made in English and Spanish. KZRF is very good until around 7 a.m. when CHNX comes on the air.

KZRH on 9630 kcs. "The Voice of the Philippines at Manila" is heard daily at 6 a.m. to 11 a.m. with very good signal. Uses three musical chimes for interval signal. Sign off at 11 a.m. with Star Spangled Banner. (Skyten—R786, Mass.)

Ships

Following are the call letters of stations aboard the Trans-Oceanic liners: U. S. Lines: KDWS—President, Roosevelt, WIEA—Manhattan. French Line: FNSM—Isle de France, KNOW—La France, and FNUN—Champlain. Cunard White Star Lines: GBTT—Queen Mary, GBXF—Britannic, GLRZ—Aquitania. North German Llyod: DOAH—Breman, DOAI—Europe, DJNB—Deutschland, DJNY—New York. Italian Line: ICEJ—Rex, ISEV—Roma, IBLI—Conte Savoia, ICOF—Vulcania. American Republic Line: WMCM—Uruguay, WMDS—Argentine, WSBW—Brazil. (Szabo—R1302, N. J.)

Spain

EAQ on 9860 no longer uses the call but simply identifies itself as "Radio Nacional", Madrid. Daily except Sunday from 7:30-8:50 p.m. is the schedule. (Jewell—R834, Ala., and Caldwell—R1319, Mass.)

Strait Settlements

ZHP on 9690 kcs. at Singapore is heard from 5:30 until 7 a.m. at which time they give news in English and stock quotations. (Skyten—R786, Mass., and Jewell—834, Ala.)

Sweden

Schedule of Motala stations: SBP on 11705 kcs. and SBT on 15155 kcs. are on daily from 1-4:15 p.m., Sundays from 3 a.m. to 4:15 p.m. and on Wednesdays and Saturdays from 8-9 p.m. with special program to North America.

SBU and SBO on 9535 kcs. and 6065 kcs. are on daily from 4:15-5 p.m. and some time on Sunday. (Skyten—R786, Mass., Welsh—R790, Ill., and Jewell—R834, Ala.)

Switzerland

HBBO on 11402 kcs. at Geneva is heard on Mondays from 8:45 p.m. to 10:30 p.m. and on Tuesday and Saturday from 1-2 p.m. Skyten—R786, Mass., and Jewell—R834, Ala.)

Turkey

TAQ is discontinued. TAP on 9465 kcs., and TAR (long wave 182 kcs.) broadcast daily from 5:30-7 a.m. to 4:30 p.m. Saturdays from 6:30 a.m. to 8:30 a.m., and 11 a.m. to 4:30 p.m. Sundays the schedule is 5:30-7:30 a.m. and 11 a.m. to 4:30 p.m. (Horton—Mass., Skyten—Mass., Chamberlain—R32, N. Y., and Sandoz—R1403, N. S. 5)

Union of South Africa

ZRL comes in every evening with a good signal at 11:45 p.m. Physical exercises are conducted in English with piano accompaniment. (Long—Ga.)

U. S. A.

New FCC regulations govern the issuing the several licenses to one station for different facilities and frequencies. Under the recent change in regulation one license will cover all frequencies and facilities at one given location of transmission. This will save much resubmitting of applications each time a frequency change is necessitated by changing climatic conditions. (RX)

KGEI on 9530 kcs. broadcasts from 7 a.m. to noon and from midnight to 3 a.m. On 15330 kcs. KGEI broadcasts from 6:30 p.m. to 11:15 p.m. (Varga—R960, Ill.)

WGEA on 21500 kcs. from 8 a.m.

Luxemburgian Amateur RADIO

Carl Horton sends this card from the Luxembourg amateur station LX1AY.

to 11 a.m. On 15330 kcs. from 11:15 a.m. to 6 p.m. and on 9500 kcs. from 6:15 p.m. (Varga—R960, Ill.)

WGEO on 9530 kcs. is heard from 3-11:45 p.m. daily. Starting in December WGEO will broadcast a mailbag service to Admiral Byrd and his men every week. First program on December 8, 1939. The time will be from 11-11:45 p.m. when it will be 4 p.m. in Little America. (Varga—R960, Ill.)

WPIT on 21540 kcs. from 7-9 a.m., on 15210 kcs. from 9 a.m. to 3 p.m., on 11870 kcs. from 3-11 p.m. and on 6140 kcs. from 11 p.m. to 1 a.m. (Takacs—Ohio)

WRAC sends a good veri card in red on white with call letters and picture of RCA Manufacturing Co., and RCA building. (Bates—R1231, Pa.)

WWB on 5000 kcs. heard announc-

ing as a standard musical pitch station. (Jewell—R834, Ala.)

Uruguay

ing on 6075 kcs. between 10:30 a.m.

CXA-3 of Montevideo is broadcast- and 12:30 p.m. daily Address is CXA-3, Servicio Oficial de Difusion Radio Electrica, Mercedes 823, Montevideo. (Williams—N. J.)

Verification from Uruguay states the following stations belong to SO-DRE (Servicio Oficial de Difusion Radio Electrica): CXA-4 on 6125 kcs., CXA-6 on 9620 kcs., CXA-10 on 11895 kcs., and CXA-18 on 15300 kcs. RC was returned so it is not evidently necessary to send one. (Callin—Ohio)

U. S. S. R.

RAN on 9600 kcs. at Moscow is on the air with English programs daily from 6-8 p.m. but is being badly QRM'd. (Jewell—R834, Ala.)

RKI on 15080 kcs. is heard from 8 p.m. with news in English. Sundays they are heard at 1:30 p.m. with bad commercial CW. (Welsh—R790, Ill., and Jewell—R834, Ala.)

Mystery stations in the U.S.S.R. on 11640 kcs. or 25.77 meters (as announced) at Radio Center with program in English from 6-6:30 a.m. daily. Another is heard on 6030 kcs. in the evening with English program. (Skyten—R786, Mass., and Podall—R946, Vt.)

Yugoslavia

Complete list of calls and frequencies: YUA 6100 kcs., YUB 6100 kcs., YUC 9505 kcs., YUD 9505 kcs., YUE 11735 kcs., YUF 15240 kcs., YUG 15240 kcs.

Now in use are YUA and YUC from 4:5:30 p.m. and YUG from 7:30-9 p.m. and YUE commencing at 9 p.m. (Podall—R946, Vt., Jewell—R834, Ala.; and Horton—Mass.)

Additional

HCJD shifted from 4845 to 9400 kcs., OAX4A shifted from 5335 to 6180 kcs., TKWB from 6486 to 6415 kcs. and XEQQ from 6980 to 6029 kcs. (Williams—N. J.)

Notice

All time used in High Frequency

Globe Trotting is Eastern Standard unless otherwise specified. This is in answer to several queries on the subject.

RADEX REPORTERS

- R7, Pa. 1: Art Hankins, Latrobe, Pa.
 - R9, Mo. 1: Walter V. Scholz, Webster Groves, Mo.
 - R32: John D. Chamberlain, Rochester, N.Y.
 - R76: Sam Graham, Panhandle, Texas
 - R220: Albert Pickering, West Medway, Mass.
 - R451: Chester Roman, Chicago, Ill.
 - R552: M. F. Williams, Newark, N. J.
 - R638: Vt. 5: Edward H. Draper, West Burke, Vt.
 - R786: Robert Skyten, S. Brookfield, Mass.
 - R790: Jack Welsh, Kingston, Ill.
 - R820: Harold Gilgen, Marshalltown, Iowa
 - R834: G. R. Jewell, Jr., Montgomery, Ala.
 - R946: John Varga, Chicago, Ill.
 - R1109: Joseph Schwartz, Bronx, N. Y.
 - R1231: Phipippe aBtes, Philadelphia, Pa.
 - R1253: Ralph Simpson, Wollaston, Mass.
 - R1273: Ga. 5: John D. Long, Dalton, Ga.
 - R1302: William Szabo, New Brunswick, N. J.
 - R1305: Carl Horton, Athol, Mass.
 - R1319: Alton L. Caldwell, Brockton, Mass.
 - R1330: Lee Grossman, Rochester N. Y.
 - R1374: Milton Benson, South Hadley Falls, Mass.
 - R1383: Steve Takacs, Akron, Ohio
 - R1387: Eddie Hirsch, Jamaica, N. Y.
 - R1403: N. S. 5: Oscar Sandoz, Halifax, N. S.
 - George H. Boorshtein, W8TLI, Detroit, Mich.
 - Owen Callin, Columbus, Ohio
 - Jose Carrizo, Jr., DX Editor Radiomania, Haavna, Cuba
 - Warren Dame, Saxonville, Mass.
 - Carl Forestieri, Bronx, N. Y.
 - Eddie Grant, North Sydney, N. S.
 - Merton Hiatt, Dryden, Wash.
 - George H. Jacobs, Cincinnati, Ohio
 - Al Kempton, Harding, Mass.
 - C. C. Lance, Birmingham, Ala.
 - Charles A. Mills, Strathroy, Ontario
 - Alvin W. Oliver, Houston, Texas
 - Merlin N. Sten, Decorah, Iowa
- NOTE: If you have a RADEX CLUB indicia, please use it always when writing to anyone, or reporting to RADEX.


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ON THE WEST COAST

By ANTHONY C. TARR

All time shown in this column is Pacific Standard

Reporters in the Mountain Standard and Pacific Standard Time Zones may send their reports direct to

Anthony C. Tarr
909 W. Lee Street, Seattle, Washington

A number of readers have written us indicating their unfamiliarity with the proper procedure to follow when attempting to verify the TP stations and, while we have replied personally to such inquiries, there are no doubt others who are not approaching the matter correctly, or hesitate to report at all. To them we direct these few paragraphs in the hopes that it will aid them to enjoy this DX hobby to the utmost.

Roughly, the trans-Pacific broadcasters may be divided into two classes for our purpose: Oriental and Occidental. The latter stations, including Australia, New Zealand and Fiji Islands, are usually very good about verifying reports from listeners and their letters indicate that our reports are warmly received. The writer has had trouble with only one out of some fifty odd reports, that being 2NC on 1230 kcs., who have failed to answer four reports in three years. (We'd appreciate learning if any American listener has verified 2NC).

Little need be said about the form of report to be used when writing to a VK or ZL station, other than that it should conform to the standards of any good report sent to the ordinary American station, with perhaps a little more emphasis placed on the degree and time of fading. Naturally, the program data will include musical selections heard or, what is best, the name of a product advertised at a specific time. (Use Greenwich Mean Time—8 hours ahead of PST—to avoid any possible misunderstanding). It might be well to briefly describe your receiver, as some of our trade names will not be familiar to them. The British refer to a tube as a



Printed in blue, on white cherry blossoms on a pink back ground, this card from J5CW is very pretty. The operator, Takeo Onishi, says he is the only phone station in the Japanese J5-District. (Courtesy of Jack Wells).

“valve” and the ground connection is termed the “earth”. Include with your report a notation of weather conditions, temperature and, if possible, barometer reading. (Numerous tests the writer has made with Australian stations have served to indicate that barometric pressures affect reception to a marked degree, and we may discuss this subject in another issue).

Finally, include with your report either an IRC (International Reply Coupon, available for 9c at your post-office), or an unused Australian three penny or New Zealand one penny stamp. About two months will elapse until your verification arrives, if they respond promptly. After about four months, if no reply is received, a polite letter of reminder may be sent, enclosing a copy of your original report. Never, under any circumstances, write an insulting or sarcastic letter to any station for failure to verify! Remember that THEY are doing YOU a favor!

When reporting to a Japanese station (and here is the real problem for many DXers!) best results may be obtained by using a little patience. At times you may listen for hours

and hear nothing but a discourse in Japanese, which admittedly affords little data from which to compile a report, unless your knowledge of Japanese is better than the average American's! However, at other times there will be musical programs, descriptions of sporting events, or dramas with sound effects. Any of these lend themselves to sufficient description in your report to warrant a verification if described in detail. That is the best anyone can do and, from our own experience, will produce quite satisfactory results. To sum it up, then, we will advise "describe what you hear."

Some have asked us, "How can we tell the identity of the station?" The code of a DXer is that he must be "reasonably sure" that he is correct before reporting. Since we cannot understand their language, then, we must perforce consult an up-to-date station list and base our identification upon that. Here is perhaps the only legitimate excuse for reporting to station without hearing the call letters announced.

In your report, bear in mind that the Nipponese engineer who will read it not only has difficulty understanding our language but in many cases does not know the meaning of "QSA4, R5" and such technical abbreviations. Therefore, it is much better to say, "Your signal was very good at this time, became weaker at such-and-such a time, and faded out nearly completely at so-and-so. The time of best reception was . . ." etc. Your report should be couched in simple, short English words, avoiding involved sentence construction, and type your letter if possible, or write or print neatly. Enclose the usual IRC with your report and be prepared to wait up to two years for a reply! Some stations will be prompt, others for some unknown reason are extremely slow, but your patience will nearly always be rewarded, either be a very pretty verification card, several of which have been illustrated in

RADEX from time to time, or by a courteous letter from the engineer, frequently accompanied by postal views if they have no regular veri card.

BROADCAST BAND

KVAN, Vancouver, Wash., 880 kcs, began regular schedules Oct. 22 from 7 am to local sunset daily and from 9 am to LS Sundays. Their studios are in the Evergreen Hotel, 5th and Main; transmitter is at 2915 Fruit Valley Road. Mailing address: P. O. Box 610, Vancouver, Wash. (E. M. Ringle—Vancouver). Verifies by letter. (West, R-673, Crow, R-1213, Morrison, R-1203).

TGW, 1520 kcs, reported with good signals about 6 pm daily. West, Macedo).

KFYR, Bismarck, 550 kcs, presented a special DX program December 14, (no time stated) and will verify reports outside a 500-mile radius. (West).

H. H. Crow, Jr., 1306 38th St., Sacramento, is anxious to get in touch with other DXers in his city. He reports KVOD, Denver, now on 640 kcs, and KTKC, Visalia, now on 890 kcs, each with a kilowatt. The frequency checking schedules of the following stations will be appreciated by Mr. Crow: KRBM, KTSW, KOMA, KTBC, WSKB, WCOV. Our reporter also supplies the following list of veri signers:

KCRJ, D. E. Towne, Ch. Eng.

KVAN, Leon W. Crager, Prog. Mgr.

KIT, Harry B. Murphy, Ch. Eng.

KUJ, Ed. T. Carter, Anncr.

KWLK, Dorothy Hamilton.

Frank Macedo, Victoria, B. C., has found conditions fairly good for TP's and supplies the following list of some of those heard by him lately: 2HD, 3BA, 2FC, 4QN, 3GL, and a new one on 760 kcs. Also LR-6 and LS-2 in the Argentine, both R7. And, by way of variety, 540 kcs. produced RW-54, Khabarovsk, U. S. S. R. There's a good one to try for, and

not so hard, but just try and get a veril!

During the November frequency checks, Frank picked up this very nice list: WBNY, WEOA, KNEL, WPAR, WPRA, WPAX, WFTC, WFOY, WFDF, KWOS, WAML, WGRC, WHDF, KHBG, KQV, WCPO, WBLK, WSAY, KGH, WRAW, WDAS, WBTM, WRAK, WJIM, WHLB, KBEO, KIDW, KVSF, KEUB, WGNV, KMLB, KOVC, KIUN, WING, KVWC, WSIX.

The new Australian on 760 kcs. heard fairly well on the coast when KXA is off, is listed by the IDA as 4QS, Dalby, Australia, with 10 kw.

KFAR, Fairbanks, Alaska, on 610 kcs, is now being heard from midnight until 2 am or later with a recorded dance program. (Morrison, R-1203).

Melvin Fisher, Berkeley, Calif., reports the following stations added to his log lately: KGU, WGN, CFNC, KXA, WCCO, CFRC, KOVA, WIBW, WSB, KSTP, KMOX, WJBW, and WWVA. Veries he has received include KOY, KOOS, WKY, WJR, WBT, WBT, WSM, KOB, KELA, CBR, and WWL.

Victor West San Rafael, Calif., has been pulling in the Japanese stations regularly, the following having been heard this season: JOAK-1, JOAK-2, JOIK, JOKB-1, JOBK-2, JBCK, JOGK, JOFK, JOHK, JOCK-1, JOCK-2. He reports that CKMO, Vancouver, 1410 kcs., verifies by letter but reports on their Saturday midnight DX prowl also receive a membership card in the Midnight Prowlers Club which shows tomcats "singing" on the roof, CKMO inscribed on the chimney, and the moon joining the chorus.

The question as to what town in the United States or its territories possesses the smallest population seems to have created considerable interest. R. Anderson, Ambrose, ND., nominates Rice Lake or Poynette, Wisc. H. H. Crow suggests that Li-

hue, Hawaii, will be the smallest when KTOH begins operations. Ores Wilson, announcer at WRAW, took the trouble to diligently search through various maps and finally emerged with the information that Hobbs, N. M. had a population of 598 people in the 1930 census. If any other reader wishes to enter a nominee in this race let's hear from you!

SHORTWAVE BROADCAST

Australia

VLR, Lyndhurst, will soon be broadcasting on 7250 and 7280 kcs. Also keep an ear open for VLW, Wanneroo, on 6130, 9560 and 11830 kcs.

Brazil

A national shortwave 20 kw station is under construction at Rio de Janeiro, assigned the following frequencies: 6200, 9505, 9585, 9600, 11710, 11825, 11890, 15145, 15370 and 17835 kcs. (IRM)

Canada

CKFX, (ex-VE9CS), the two-watt station in Vancouver, B. C. is reported heard on 6080 kc between 10 pm and midnight with an R5 signal in Hawaii. (Fern, R-211 TH-2)

England

A review of the Daventry frequencies might be of some help at this time, inasmuch as they now broadcast in some fourteen different languages and are apt to mislead DXers into thinking they have a new station. Refer to the following list if in doubt:

6050 GSA, 6110 GSL, 7230 GSW, 7260 GSU, 9510 GSB, 9580 GSC, 9600 GRY, 9690 GRX, 11750 GSD, 11820 GSN, 11860 GSE, 15140 GSF, 15180 GSO, 15260 GSI, 15310 GSP, 17790 GSG, 17810 GSV, 21470 GSH, 21530 GSJ, 21550 GST, 21560 GSJ2, 21640 GST2, 25750 GSQ, 26100 GSK, 26550 GSS.

France

TPB, Paris Mondial, is now broadcasting from 9:30 am on 11845 kcs., also being relayed on 11885, concluding at 3 pm. (Park, Honda).

Guatemala

TG5JG, Guatemala City, testing on 11440 kc from 9:30 to 10:30 pm. Also heard on 11750 kcs. (IDA). Address: P. O. Box 12.

Manchukuo

Verifications received from MTCY, 11775 kcs, are in the form of a folder bearing a symbolic Oriental design in rich red color on the outside, while inside is the veri message and a musical bar, which is their identification signal. Their schedules were listed here last month. (Satterthwaite, West, Sawada.)

Paraguay

ZP-14, 11720 kc, was heard with a strong signal at 4 pm. (Park).

Philippines

Accurate information as to the correct call letters of the 49-meter stations would be appreciated. We have many conflicting reports on hand and therefore hesitate to give what might be erroneous information.

Spain

EAQ, 9860, still going strong. (Park). This will be interesting to several to have inquired as to this station.

Turkey

TAP, 9465 kc, is reported to be the only active station at this writing. They are being heard signing off at 1:30 pm with a good signal, and announcements by a lady at close. The 15190 kc. transmitter is off the air. (Park, Honda).

THE REPORTERS

R211, T. H. 2—C. J. Fern, Jr., Lihue, Hawaii.
 R592—Bob Sawada, Isleton, Cal.
 R673, Victor West, San Rafael, Cal.
 R1203, Don Morrison, Berkeley, Cal.
 R1213, H. H. Crow, Jr., Sacramento, Cal.
 R1298, Melvin Fisher, Berkeley, Cal.
 R1362, Robert C. Morris, Arcadia, Cal.
 Harold Satterthwaite, Los Angeles, Cal.
 Harold B. Clein, Los Angeles, Cal.
 Frank Macedo, Victoria, B. C.
 E. M. Ringle, Vancouver, Wash.
 Bob Park, Vancouver, B. C.
 Bill Cunningham, Pasadena, Cal.
 R. Anderson, Ambrose, N. D.
 Ores Wilson, Reading, Pa.
 James Dagg, Aldergrove, B. C.
 Harry Honda, Los Angeles, Cal.

Radex Radio Riddles

Test your knowledge of radio. If you answer all but three, it means you make 80 percent, and are well-informed about every-day radio. The correct answers are given on page 95 in this issue of RADEX.

1. Radio waves travel through space with the speed of (a) the earth's shadow (b) a comet (c) light (d) sound.

2. The antenna takes its name from (a) an ancient Greek flag pole (b) an insect's whisker's (c) Franklin's lightning rod (d) an African flying ant.

3. Radio fading is produced by (a) cheap paint (b) an aging announcer (c) cracked tubes (d) vanishing signals.

4. Wave traps are needed to (a) trap the watts in the meter (b) drown out certain stations (c) tone down the speaker (d) prevent waves in the detector tube.

5. By DX we mean (a) armored electric conduit cable (b) a physician's radio prescription (c) interfering signals (d) distant reception.

6. An All-wave radio (a) does not tune to all wave (b) creates internal interference (c) covers the long waves exclusively (d) has an adjustable rubber magnet.

7. Radio bands (a) are heard from all stations (b) embrace groups of wave lengths (c) are small belts used to turn the tuning dial.

8. When a condenser is used in a radio it (a) condenses the lighting current to a lower voltage (b) stores electric charges (c) prevents burning out (d) demagnetizes the speaker.

9. Radio tubes are (a) filled with "juice" (b) small light bulbs (c) electric valves (d) heating elements.

10. A radio receiver is tuned by (a) twisting a flexible tuning fork (b) winding a tiny piano wire (c) adjusting a condenser (d) whirling an electron spinwheel.

11. It is now a known fact that radio waves travel entirely around the earth (a) from east to west (b) in

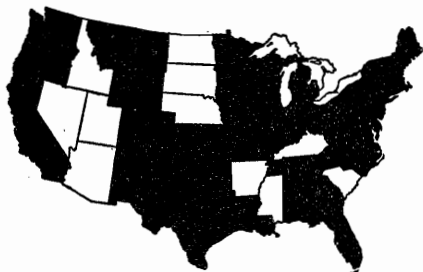
one-seventh of a second (c) best when the moon is full (d) when sun spots are visible.

12. During recent years short waves have become popular because they (a) take up little air space and reduce interferenc (b) are quiet (c) are less affected by the sun (d) can dodge easily around obstructions.

13. If you needed a microphone you would describe it as a (a) small telephone set (b) hearing device for deaf persons (c) high-grade telephone transmitter (d) scientific instrument for examining electrons.

14. Static is the result of (a) friction between radio waves (b) the rotation of the earth (c) movement of the planets (d) electricity in the air (e) too many radios.

15. A loud speaker (a) sets air in motion (b) requires no magnet (c) is clamped down rigidly (d) should be operated loudly to renew its vigor.



Membership in the Radex Club approaches the 1500 mark; at the time of writing we have 1474 members enrolled, in every state in the Union except Nevada. The map at the head of this column shows the states, in solid black, in which there are at least five members.

We believe our club is getting big enough now to permit us to organize more permanently, to give it officers, to work more energetically for our hobby. The first step in our new program is the formation of a Board of Directors, a group of persons who will originate, discuss, and approve or reject ideas for the conduct of club business. The Board at the present time consists of three editors of



Lithuanian amateur LY1J verifies correct reports with this card. The colors are red, yellow, green and blue. (Courtesy of Wallace Howe).

RADEX, Ray LaRocque, Anthony C. Tarr, and Owen P. Callin. In addition to the editors, the presidents of the Radex Club Chapters are also included in the Board. At present there are three chapters, the Irvington Chapter with Warren Carpenter as president, the Brooklyn Chapter with George Nahas at the helm, and the Virginia Chapter, presided over by Harold Tear.

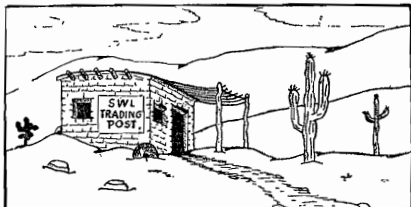
Through the Board of Directors, every member of The Radex Club may offer suggestions or criticisms, knowing that every idea presented will be duly considered by this group of DXers. At chapter meetings, suggestions will be voted upon by members, and when our aim is realized to have at least one chapter in every state, every member of The Radex Club will have a direct vote in matters concerning his club.

Under the direction of Harold Tear, the Virginia Chapter is embarking on an ambitious program of DX activities that should appeal to every DXer in Virginia. Of first importance is the fine little bulletin, issued every month, full of DX news from all the members, and written up in a style that we know you'll like. Very important, too, is the Virginia DX Contest, running from January 15 until February 28, in which two prizes are offered, a twelve-foot vertical antenna with complete lead-in kit, and a one year subscription to RADEX. This

contest is only for members of the chapter, who will receive complete details through the mail. Any Virginia DXer who is interested in joining may communicate with Harold Tear, 1317 Thomas Ave., Roanoke, Va.

A special program will be dedicated to The Virginia Chapter on January 12, from station WNBZ, Saranac Lake, N. Y., during their frequency check, at 3:55 to 4:10 am, EST. All Radexers are requested to tune in and send their reports to Mr. Fred C. Ambrose, the engineer of the station.

The Irvington (N. J.) Chapter has recently been honored by two special programs, the first of which was sent from WAIR, Winston-Salem, and the second, on December 12, from KRGV in Weslaco Texas.



Harold Wintheiser, Le Center, Minn. (SWL cards).

Glenn S. Pidge, 431 Azusa Ave., Azusa, Calif. (SWL cards).

Carl Horton, 16 Auburn Place, Athol, Mass. (SWL cards).

John Johnson, 1004 Washington St., Hoboken, N. J. (Correspondence).

John Varga, 4758 West End Ave., Chicago, Ill. (SWL cards, and correspondence with owners of Hallcrafters SX-23).

Lewis R. Hill 2138 S. 16th Ave., Maywood, Ill. (SWL cards).

Merlin Steen, Route 6, Decorah, Iowa. (SWL cards and swap photos).

Jack Welsh, Kingston, Ill. (SWL cards).

J. I. Vaught, Box 1424, New Orleans, La. (SWL cards).

Baron Franz Gall von Atlasz, c/o "Radio Morse," Guatemala City, Guatemala (Exchange photos and souvenirs).

Norman E. Lank, 932 Wilder Ave., Montreal, P. Q. (SWL cards).

L. F. Dolbow, 4466 Rainbow Blvd., Kansas City, Kans. (Correspond with owners of 20-tube Midwest).

Geo. H. Jacobs, Box 141, Station V, Cincinnati, Ohio (SWL cards).

Alan Bolles, 21 Los Arboles, Albuquerque, N. Mex. (SWL cards).

Art. Parfitt, 1874 E. 87th St., Cleveland, Ohio (SWL cards).



From Portland, Oregon, "The City of Roses," comes this three-color SWL card.



Sam Graham's SWL



Red and silver are the colors of this SWL card from Victor Samaradza of New York City.

HAM HOUNDING

• • • By HUGH HUNTEM

According to the many reports we have received during the past month, the ham band listeners are still with us, despite the silencing of many of the foreign DX stations. We admit that even we have strayed a little ourselves, and consequently have logged many new broadcast band stations, commercials, ship stations, and others.

However, those periods were during the times when the ham frequencies were just spots of silence on the dial because of atmospheric condition. The 20-meter band was nothing to boast about as far as evening listening was concerned last month, yet Chinese and Japanese stations were logged early in the morning.

Listeners' reports show that the most consistent band was 10-meters. What DX stations left on the air by the war were coming in nicely, including the Belgian Congo rigs in South Africa, a district every listener should have logged by now.

In answer to the request for reports on Far East stations, we have Cliff Taverner, R716, to thank of the most complete log. His antenna has grabbed plenty of FB catches from out of the air down in Rosenberg, Texas.

We are rather proud to point out that we called the turn on the South African stations going off the air in our last issue. Subsequent reports proved that the ZS rigs were ordered to shut down. It would be easier now to list the countries still on the air rather than those affected by bans.

With listeners concentrating on Asia for their DX there should be many more applicants soon for the VAC plaques, since that continent is the hardest to log. In answer to a question from R716, of course a notarized statement will do instead of taking veris off the wall. In fact, this method is preferred, since it does away with shipping the QSL's for proof of reception.

Before we parade some radio personalities, we should mention the ARRL Sweepstakes, which brought out many usually silent rigs. It has been on during the latter half of November.

Bee Catalano, 1412 Hyde Park Blvd., Chicago, a newcomer to our column, reports: "That sweepstake Nov. 12 was something. I heard 29 hams from 8 to



Wilfred Chock, of the Honolulu Police Department, chooses an attractive lass in a grass skirt and with a guitar, to decorate his QSL card.



DXing with a good receiver is like fishing in Minnesota, according to Harold Wintheiser, who sends this red and blue SWL card.

9 p.m., and were they having a time! Got a Mexico ham, XE2JK calling someone. How many responses to your CQ did you get, W6ITH? And what does "CQSS" mean—will someone please tell me?"

Welcome to Ham Hounding, Bee, and we wish that more of our YL and XYL listeners would report. And that "CQSS" of course, means "Calling CQ Sweepstakes"—get it?

Four hams now off the air are nominated for our personality parade this month. Since they cannot operate we'll help them out some. They are G8JM, ZL4GS, VE1KV, and VP4TJ.

G8JM—This station is located on a hillside on the edge of historical Epping Forest, in Chingford, a suburb of London, "where the metropolis meets the country," as the cop, W. G. Hall, puts it.

The rig is located about 100 feet above sea level, surrounded on all sides by low hills with the exception of the west, in which direction an excellent view of Alexandra Palace, the television station, six miles away, may be had.

Hall is a "British working man," 27 years old, recently married. Before the war broke out he was an assistant departmental manager in a cabinet factory. He is not allowed to tell at present what he is doing.

The war interfered with plans to "work all states" on phone. Hall has worked 53 countries on all continents and on 160 meters has worked F, E1, OZ, HB, and D. He had also determined to get across the ocean on this band. His good record he says resulted from the erection of an antenna invented by W3EDP—the all-band antenna.

..ZL4GS—F. J. W. Graham, the op, took his amateur radio seriously and built all of his own equipment, even to the crinkle paint on the panels, which he baked in his own oven. Band switching on all stages with the exception of the final which has plug-in coils, operation on 80, 40, and 20 meters, and matched impedance antenna are some of the features.

In 1935 Jim didn't know what radio was all about, but a year later he had his ticket. Two months later he built a small rig and went on the air with a lusty "CQ."

Did he get a bite? "I'll say I did," he chuckles. "ZL4GS was all over the band!"

But fellow-hams helped out and now he is an old hand at the transmitting game. He is a shunter on a New Zealand radio, is married but has no junior operators—and will QSL 100 percent. He lives in Invercargill, just 18 miles north of the two most southernmost hams in the world—ZL4CP and ZL4DR at Bluff, New Zealand.

VE1KV—John Shreve, of St. Johns, New Brunswick, became interested in radio in 1936 when he was sailing on a Canadian government ship back and forth from Halifax to Australia and New Zealand. He used to communicate with passing ships by flashlight, which taught him the dots and dashes of Morse.

He mixes radio and flying, and by this time is in the Canadian Air Force. Before the war he was ready to take the examination for his commercial radio license.

Before VE hams were banned he was running only 35 watts, his former transmitter having been destroyed in a fire.

"I lived in a hotel beside the concern where I was working as a salesman," he writes. "Early one morning last winter while I was DXing I saw a tongue of flame shoot past the window. I reckon my hair stood right on end—anyway, I cleared the chair in one leap, hurried to the door and hollered 'fire' and then grabbed plugs and cutting pliers. I got the precious transmitter loose, took it in my arms—and proceeded to fall down a flight of stairs. What a mess!"

So before the war John was on a vacation, going to a radio school, and transmitting with his smaller rig. Now we'll have to wait until hostilities have ceased before we hear from him again.

VP4TJ—Although running only three watts to a single 80Z tube, Anthony "Andy" Jasmins gets Q5R9 reports on 40 meters constantly, and has worked some fine DX on 20 meters, phone and CW. He says that VP2XY, airport in British Guiana, and VP3XY on two planes operating to Kaiteur Falls and gold mines in the interior use his rig for checking.

And the whole thing, with the exception of modulator and crystal mike cost him only \$30!

An electrical engineer, Andy has lived in all parts of the West Indies, Canada, and the United States. He saw the SOS sent out from the emergency spark transmitter of the ship Carquet when it sank off Bermuda 15 years ago.

He owned the first radio set in British Guiana (two-tube Grebe) back in 1922. He also made application for transmitting license but since they were not granted he pirated, using the calls VP3LX and VP3PH. In the rig a Ford coil was used on a wavelength of 500 meters, mostly in contacting ships arriving into port.

Now he is in Trinidad and his QRA: Radio Distribution, 11B Maraval Road, Port of Spain, Trinidad.

Now for the list of who's on the air:

ALASKA—Bill Wells, Hamilton, Ont., is turning to 75 meters for his DX, and has heard K7AWH, Ketchikan, formerly W7AWH, on 3970 kcs. using 150 watts, and K7FJ on 3945 kcs. K7GZH and K7KSC reported on 20 meters. Also on 20 K7GTP, located in Unalaska, in the Aleutian Islands, heard by Jack Welsh, Kingston, Ill.

ALBANIA—All cards for ZA stations should be sent via Radio G. U. F., Trento, Italy.

ALGERIA—FA3JY, 14090, is Rene Roujas, 17 rue Lafontaine, Belcourt-Algers.

ANTIGUA—Off the air.

ARGENTINA—Quite a few of the LU hams are coming through, including LU4CZ, 8AB, 4BH, 1QA, 2DJA, and 2DJB to name a few. LU1QA informs us through the WDXA that he is the only station in the San Luis province of Argentina and that he is only allowed to transmit four hours a day and cannot speak to an amateur in a country at war.

AUSTRALIA—Off the air.

AZORES—CT2BP is still the only ham heard. His frequency is 14.134 QRA: Florencio Jose Terra, Jr., Travessa de S. Francisco, Horta-Faial, Azores.

BAHAMAS—Off the air.

BARBADOS—Off the air.

BELGIAN CONGO—Although ON stations are off the air, there are several OQ stations still broadcasting. Here is the list: OQ5AA, 14080; OQ5AB, 14295 and 28300; OQ5AE, 14400; OQ5RC, 14080; and OQ5ZZ, 14090. 5AE's transmitter was built by hams in Tennessee, this missionary's home state. 5AB is best DX available on 10 meters, and reports should be sent to Mr. A. Schroevens, Chef de Service Principal a 1°U.M.H.K., Elisabethville, Belgian Congo. 5ZZ, the Gatti Expedition, operates on Wednesday and Fridays between 5:30 and 8 p.m.—QRA: Poste Restante, Stanleyville.

BELGIUM—Off the air.

BERMUDA—Off the air.

BOLIVIA—CP1BA will positively not QSL, many of our listeners report.

BRITISH GUIANA—Off the air.

BRITISH HONDURAS—Off the air.

RURMA—Try shooting for XZ2DX and XZ2BHB, on 14100. These two stations are heard in the United States when conditions are right.

CANADA—Off the air.

CANARY ISLANDS—Readers report that two active 40-meter stations, EA8AE and EA8AS, will not QSL. 8AE, 7.18 and 7.31 megs, and 8AS, 7.25 megs, both broadcasted as propoganda stations during the Spanish war, according to Jack Wells, of Phenix, Alabama. He has also heard EA8AK, 7.25 megs, Santa Cruz de las Palmas.

CANTON ISLAND—KF6DHW will QSL with his black and white card if reports are sent to Charles Calley, Department of Interior, Honolulu, Hawaii.

CURACAO—PJ5MS issues a very attractive QSL with mountains and a cockatoo bird in brilliant colors. Don't forget that PJ stations are working undercover.

CEYLON—VS7RA, 14625 kcs, verified for Cliff Tavener with a new card, dark green call letters over a light green map of the island. He also sent photos of a lioness and crocodile that he had shot on his estate. The QRA: R. P. Walker-Alexander, Hynford Estate, Nawalapitva.

CHILE—CE2BX, CE3CZ, CE3AH, and CE3AZ have all been heard on 10 meters.

CHINA—It is with satisfaction that we report XU stations practically rolling in on 20 meters. XU6KL, XU8RB, XU5CX, XU7HV, and XU1B were the strongest. QRA of XU8RB was given as



Merton Hiatt sends this Alaskan veri.

Reginald J. Broadley, Lane 159, House 6, Seymour Road, Shanghai, by Cliff Tavenner, who also reports that 8RB runs 300 watts into the final and uses a variable crystal, 14084 to 14106 kcs. XU5CX may be heard on 14020 kcs.

COSTA RICA—Many of the TI stations are turning to 10 meters and we also find more of them QSLing. TI3AV and TI2RC are the best. Two new ones heard on 20 meters are TI2TG and TI6HP.

CUBA—Cuban stations are ack on the air after a two-month ban imposed by the Director of Radio. They help fill in the blank spaces on the 20-meter foreign band.

DANZIG—Off the air.

DENMARK—QSL cards from OZ5BW and OZ7KG have reached this country, but it is believed that OZ rigs are off the air, too, since Denmark is near the scene of the war and none of our listeners are reporting hearing them.

ECUADOR—HC2CC is the new Ecuador station on ten meters. It is jointly operated by Carlos Casal and Wally Groskreuz, and the RA: Box 348, Guayaquil.

EGYPT—Off the air.

ESTONIA—Believed off the air.

FINLAND—Off the air.

FRANCE—Off the air.

GERMANY—Off the air.

GIBRALTAR ZB2B, Royal Engineers Club, may be off the air, too, since Gibraltar is British.

GUAM—KB6OCL, 14170, is being heard. He is William Harrison, U.S.M.C. Unit, M. C. Building 131, Sumay.

GUATEMALA—TG9BA and TG9JC will verify but TG8AA will not. 9BA and 9JC have been heard on 10 meters.

HAWAII—Bill Wells reports hearing K6OQE (3947 kcs.) on 75 meters. K6QXY and K6RDB have been heard on 10 meters.

HONG KONG—The Call Book reports a ban on VS6 stations. The QRA of VS6BE, requested by R716, is Capt. Whatman, Box 651, Hongkong. He was heard on 14360 kcs., mentioning that he was running 50 watts.

HUNGARY—HA1K, 14143 and 14250 kcs., operated by the Research Station of the Royal Hungarian Post, Budapest, is still on the air and probably will remain on during the war, reports Jack Wells. The station is operated by SWBC station HAT4 and is used to seek reports on that station's transmissions. Time of operation of HA1K is from 7



This card has to be seen to be fully appreciated. It is hand drawn, in black, yellow, green and red. An amateur who sends out as nice a card as this certainly cannot be "America's Orneriest Ham," as he calls himself. More appropriate would be "A-One Ham." (Courtesy of R. Fieberg).

p.m. to midnight.

ICELAND—TF3C, about the only Icelander heard, will not verify reports, we are sorry to say.

IRAQ—Phil Craig, Waterville, Me., reports reception of Y11C with a QSA 5 R 6-7 signal.

JAMAICA—Off the air because of the war.

JAPAN—Jack Wells heard J2NQ, 14070; J3CX, 14150; J5CW, 14080; and J7CB, 14090, all in one hour one morning last month. J5CW, heard before, QSL's in seven weeks, and said on his card that he was the only active J5 phone on 20 meters. However, J5CC has been reported. Weston Richards, Zion, Ill., also reports J5CW. It is a safe bet that these J stations will QSL: J2MI, J2KG, J5CC, J7CR, J2QN, J2JJ, and J3CX.

LUXEMBOURG—LX1SI and LX1AI both have QSL's for listeners but LX rigs may be off the air. Condition uncertain.

MALAYA—VS2AL, 14080, who has his WAC on 15 watts, will QSL.

MALTA—ZB1L may or may not verify, depending upon how he is feeling. The census is that he's very hard to QSL.

MAURITIUS—VQ8JM, the new station on the island, is probably off the air now with the rest of the British Empire, since this little country is a British possession.

NETHERLAND INDIES—PK1VX, rarely heard in the states, has been captured by Phil Craig. Reports of the PK stations are meagre this month.

NORWAY—Rigs believed off the air. LA1F, Oliver Bingen, Sandefjord, sent his QSL.

PANAMA—HP1A, the only operator in Panama, used to QSL but evidently has grown tired of it and will only send his card when the report is of actual value to him.

PERU—OA4C is the newcomer. Many report him. The QRA: Ernest De Rossi, Box 1079, Lima.

PHILIPPINES—KA1LZ is the best KA phone, on 14260 kcs. Others to listen for with their frequencies are: KA1ME, 14140 and 14260 (does not QSL, says Jack Wells, who has sent him 10 different reports with return postage in each); KA4LH, 14110 (the op only goes into Manila twice a year after his mail—he's located in an outlying district); KA7EF, 14110 and 14250; KA1FH, 14140 and 14270; KA1CW, 14140; and KA1LB, 14130 and 14260—all of them heard best about 7:30 a.m.

SPAIN—The QRA of EA7BA, 14010 kcs, is Jose Maria Gil Guerra, Sagastas Num. 33, Cadiz, Spain.

SPANISH MOROCCO—EA9AI, 7190 kcs, operated by Dr. Angel Mora, broadcasts 9-10 p.m. on Saturdays; EA9AH, 7000, Tetuan, key propaganda station for Franco during the Spanish war, broadcasts in the afternoon—sometimes is on 13990 kcs.; EA9BJ, 7100, Alcazarquivir, usually heard near midnight.

TAHITI—FO8AA has often been heard calling W6's, but will not verify.

TANGIER—EK1AF, the only phone station in the International Zone, is Jose M. Sierra, British P. O. Box 50, Tangier. EK1AA, the other ham station, is on CW.

URUGUAY—CX2BK, who QSL's 100 percent, according to Jack Welsh, has a new QRA: Jaime Borba, Box 896, Montevideo, Uruguay.

The Spatari Language Foundation, 27-20 25th Ave., Astoria, New York, is sponsoring a world-wide DX contest, with a silver loving cup as first prize. Details may be obtained by writing to the above address. Any amateur wishing to cooperate in promoting the Spatari may communicate with Lee Mason, W8SPK, 800 Conner Ave., Detroit Mich.

CHATTER: Alton L. Caldwell, Jr., Brockton, Mass., sends in his second report and lauds an open 10-meter band with fine signals from Africa. He reports that W1LVS is portable mobile on the Continental Clipper and W5FPA is portable marine aboard the steamship Gulf Dawn, headed for Philadelphia from Port Arthur, Texas. . . . Phil Craig sent in a fine report—said he had benefited so much by reading Radex that he felt obligated to pass along what he knew about DX. Thanks, Phil. . . . Ralph Kastner sent along his month's dope sheet. . . . Bill Wells logged a Frenchman sounding like F8GO in the American phone band on Oct. 25. . . How is 75 meters, Bill?

Robert W. May, R689, is studying for his ham ticket, so is stealing a march on the rest of the boys by logging some CW stations on 40 and 80 meter CW. . . . Bertram Podall, of Gilman, Vt., asks if VP8JP is a licensed ham. He was heard low in the 20-meter band. Well, we can't find that call in the "Bible," Bert. Was NX2L in Greenland last summer, he also asks? Can anyone help him? . . . Walter E. Welch, of Lynn, Mass., sends in a fine list. . . . and Oscar Sandoz, of Halifax, Nova Scotia, has data on dozens of ham stations with frequencies he is willing to furnish. He also wants to send in a monthly report, since he is one of only a few reporters in the Maritime Provinces. Pass it right along, Oscar, and we'll appreciate it. If anyone wants to communicate with him about his fine offer, the full QRA is Dutch Village, Fairview P. O., Halifax, Nova Scotia. Oscar is No. 1403 in The Radex Club.

Carl F. Horton, 16 Auburn Place, Athol, Mass., some time ago volunteered to furnish QRA's to any Radexer who wrote to him. Over 100 did write, but failed to send return postage, which Carl stipulated. Only one writer did send stamps to cover the reply. Since Carl has so kindly volunteered this service, it is only fair that return postage be sent along with your request.

A. M. Hawkins, of Latrobe, Pa., sends in a list of hams who do not QSL: K6FAB, YV5AE, PY2FF, HH2S, H15X, HP51, EI6G, K4FAY, VP9C, VP7NS, CX2AK, VP3AA, HC1JW, CE3DW, K4ENT, ZS1AX, VK7AB, and SV1KE

And with that we close this month's dope sheet. We're right in the middle of the best DX season, so don't forget to

drop your reports in the mail to ol' Hugh Huntem.

Ham Band Revisions

American Amateur Bands were revised to conform to the following schedule:

Frequencies for exclusive use of Amateur

Stations	
1715 to	2000 kcs. (a)
3500 to	4000 kcs.
7000 to	7300 kcs.
14000 to	14400 kcs.
28000 to	30000 kcs.
56000 to	60000 kcs.
112000 to	116000 kcs.
224000 to	230000 kcs.
400000 to	401000 kcs.

Frequency Bands for Telephony

1800 to	2000 kcs.
28500 to	30000 kcs.
56000 to	60000 kcs.
112000 to	116000 kcs.
224000 to	230000 kcs.
400000 to	401000 kcs.

Frequencies for Amateur transmissions of Television and Frequency-Modulated Transmissions

112000 to	116000 kcs.
224000 to	230000 kcs.
400000 to	401000 kcs.

Frequencies for use by Amateur Stations for Facsimile

1715 to	2000 kcs. (a)
56000 to	60000 kcs.
112000 to	116000 kcs.
224000 to	230000 kcs.
400000 to	401000 kcs.

Frequencies in high Type A2 Transmission May be Employed

56000 to	60000 kcs.
112000 to	116000 kcs.
224000 to	230000 kcs.
400000 to	401000 kcs.

Effective December 1, 1939, the Radiotelegraphy (CW, or code transmissions) may be employed on all the amateur bands.

(ar) The bands indicated by the letter (a) are subject to change to "1750 to 2050" kcs. in accordance with the Inter-American Arrangement Covering Radio communication, drawn up at Havana in 1937.

Amateur Calls Heard

The calls are listed under the time zones in which they are heard. The names and addresses of persons reporting the stations are indicated by small letters following the call signs. Key to the small letters is given at the end of the column.

CE2BX (a); CF3CZ (a); HI2B (a); HI7G (af); K4EZR (a); K4FAB (a); K4FRN (a); K4FSP (a); K6MVV (af); K6NZC (e); K6OQE (e); K6OQM (e); K6PCF (e); K6PIT (e); K6QXY (e); K6REF (e); K6ROB (e); K6RVG (e); K7GZH (e); LU2DT (a); LU7BU (a); LU8AB (e); OQ5AB (e); OQ5AE (e); TG9AB (a); TI2RC (ae); TI3AV (aef); XE1CQ (af); XE1FF (f); XE1GL (af); XE2FC (a); XE2HY (f); YN3DG (a); YV1AG (a); YV5AE (a); ZS5T (g).

75 Meters

K6OQE (j); K7AWH (j); K7FJ (j).

20 Meters—EST

CE1AM (b); CE1AS (bgj); CE2AM (b); CE3BE (j); CE3CG (bj); CE3CK (j); CE3DW (b); CE4AC (j); CT2BP (d); CX2BK (bj); CX2CO (bdj); EA7BA (bj); EA9AH (d); EK1AF (bj); HB9DE (j); HC1FG (g); HC2HP (bj); HI13N (j); HI15X (ij); HI16Q (ij); HI7I (ij); HK1AB (aj); HK1AG (j); HK3BS (a); HK3CI (j); HK3CK (j); HK3CO (i); HK3CY (j); HK4EA (j); KA1CS (b); KA1CW (b); KA1FH (bi); KA1HS (b); KA1JZ (b); KA1ME (b); KA7EF (b); K4EMG (di); K4EZR (a); K4FKC (gi); K5AM (ij); K6ILW (b); K6LVU (b); K6MVA (i); K6NYD (i); K6OJI (i); K6PTW (i); LA1F (d); LU1QA (bj); LU2DJA (j); LU2EG (j); LU4CJ (j); LU4DJ (i); LU4DJD (j); LU5CK (bj); LU7BU (j); LU8AB (ij); LY1J (bdj); LY1S (b); OA4C (b); OZ5BW (bd); PAoEH (b); PAoMZ (d); PK1VX (b); PY1CK (b); PY5AQ (j); TG5JG (j); TG9AA (b); TG9BA (j); TG9BA (g); TI2BC (j); TI2LR (j); TI2RC (ij); TI4AC (j); TI4JG (j); TI6HP (ab); EX1CS (i); XE1CQ (i); XE1CX (j); XE1FU

(ij); XE1HR (ij); XE1JH (j); XE1LK (ij); XE1LV (i); XE1LX (ij); XE1ZK (g); XE2HB (j); XE2HY (i); XE2JK (ij); XE2KU (i); XE3AR (ij); XU6KL (b); YI1C (b); YN1FF (bj); YN1IP (j); YN3DG (bj); YV1AN (ij); YV1AP (j); YV1AQ (gij); YV4AA (a); YV4AC (a); YV4AE (ij); YV4AF (j); YV4AL (j); YV4AO (a); YV4AX (j); YV5ABE (j); YV5ABF (i); YV5ABY (i); YV5ACE (ij); YV5ACJ (j); YV5AE (j).

20 Meters—CST

CE1AC (e); CE1AH (e); CE1AR (e); CE1BC (e); CE3BE (e); CE3CG (e); CE3CZ (e); CE3EY (e); CE3EW (e); CX2BK (eh); CX2CO (e); EA7BA (f); EK1AF (fk); HC2HC (e); HH2B (h); HI5X (eh); HI6Q (fh); HK1AB (e); HK4DF (e); HK3CI (f); HK3CK (h); HK3CO (e); HK4AC (e); HK4DK (e); HK4DX (e); HK5EA (e); J5CW (h); KA1AF (e); KA1AF (e); KA1AP (e); KA1CS (e); KA1CW (eh); KA1CX (f); KA1FH (eh); KA1HS (h); KA1ME (ehk); KA1OZ (e); KA1XL (e); KA7EF (h); K4FDC (f); K4FKC (c); K6OJI (k); K6PMC (e); K6RVU (ek); K7KTP (k); LU1QA (e); LU4BD (k); LU4CZ (k); LU4DJD (e); LU8AB (ek); OA4C (k); OA4L (e); OA4R (f); PK1OG (k); PK1TM (k); PK2AY (h); PK2ER (h); PK3WI (e); PK4KS (hk); PK4MM (k); PY5AQ (e); PY7AE (k); TG9BA (e); TG9RV (e); TI2AC (e); TI2PG (e); TI2TG (e); T14AC (ef); TI4JG (f); XE1BL (f); XE1CD (c); XE1CQ (c); YE2HY (cf); XE2IM (f); XE3AR (f); XE3AX (h); X14 (f); XU8ZA (k); YN1IF (e); YV1AD (e); YV1AN (e); YV1AP (k); YV1AQ (efk); YV1AS (e); YV3AQ (h); YV4AE (ce); YV5ABE (c); YV5ABF (ce); YV5ACE (k); YV5ACH (e); YV5ACJ (f); YV5AE (k); YV5AG (e); YV5AO (ek).

The Reporters

(a) Alton Caldwell, Jr., Brockton, Mass.

(b) Philip Craig, Waterville, Maine.
 (c) Harold Gilgen, Marshalltown, Iowa
 (d) A. M. Hankins, Latrobe, Pa.
 (e) Ralph Kastner, New Braunfels, Texas
 (f) Robert W. May, Rome, Ga.
 (g) Bertram Podall, Gilman, Vt.
 (h) Weston Richards, Zion, Ill.
 (i) Walter Welch, Lynn, Mass.
 (j) Wm. Wells, Hamilton, Ont.
 (k) Jack Welsh, Kingston Ill.

"SSSS" AND "SOS"

News dispatches from the war zone report that "SSSS" is rivalling "SOS" as the marine radio operators call of distress. If this is fact, the former is not internationally recognized as is the "SOS" signal in the International Morse Code.

In any event, the "SSSS" does not officially mean "Submarine Sighted" or any other particular words beginning with "S". The explanation is that the dot-dot-dot four times repeated (... ..), representing these letters, has a characteristic swing and through common understanding and usage identifies the nature of the distress case.

"SOS" does not mean literally "Save Our Souls" or "Save Our Ship" as is sometimes claimed, any more than the previous international distress call "CQD" meant "Come Quick Danger." All such calls are based on the speed and clarity with which they can be transmitted.

It was at the 1906 International Radio Conference at Berlin that "SOS" was formally adopted. This combination was the outgrowth of "SOE" which had been used by German ships but which was somewhat unsatisfactory because that final dot was easily obliterated by interference.

Even so, "CQD" was so firmly established with some operators that its use was continued for some years thereafter. A notable example was its employment in summoning aid for the steamship "Republic" in 1909.

Dxer's Appointment Calendar

The time shown in this Calendar is EST. For CST, subtract 1 hour; for MST, subtract 2 hours; for PST, subtract 3 hours; for GMT, add 5 hours.

Clubs: Newark News Radio Club (NNRC); Universal Radio DX Club (URDXC); National Radio Club (NRC); International DXers Alliance (IDA); DXers International Exchanges Club (DXIEC); World DX Alliance (WDXA).

- Jan. 2, 4-5 am, KFAB, Lincoln, Nebr. 770 kcs. (WDXA).
 Jan. 3, 4-5 am, CJCS, Stratford, Ont., 1210 kcs. (NRC).
 Jan. 7, 4-5 am, WWNC, Asheville, N. C., 570 kcs. (WDXA).
 Jan. 8, 3 am, CMHK, Cruces, Cuba, 1210 kcs. (NRC).
 Jan. 11, 3:15-3:45 am, Bismarck, N. Dak., 550 kcs. (WDXA).
 Jan. 12, 3:10-3:25 am, WJTN, Jamestown, N. Y., 1210 (WDXA).
 Jan. 12, 3:55-4:10 am, WNBZ, Saranac Lake, N. Y., 1290 kcs. (For Virginia Chapter, The Radex Club. Send reports to Fred. C. Ambrose, Engineer).
 Jan. 13, 3-4 am, CHLT, Sherbrooke, P. Q., 1210 kcs. (NRC).
 Jan. 13, 4-5 am, CFAR, Flin Flon, Man., 1370 kcs. (NRC).
 Jan. 15, 12:30-1 am, KOB, Albuquerque, N. Mex., 1180 kcs. (IDA).
 Jan. 14, 1-2:30 am, WTAM, Cleveland, Ohio, 1070 kcs. (IDA).
 Jan. 18, 4-5 am, CKOV, Kelowna, B. C., 630 kcs. (NRC).
 Jan. 19, starting at 5:45 am, KFAB, Lincoln, Nebr., 770 kcs. (IDA).
 Jan. 21, 5-6 pm, 12AA, Addis Ababa, Ethiopia, 9650 kcs. (IDA).
 Jan. 28, 4-5 am, XENT, Nuevo Laredo, Tams., 910 kcs. (IDA).
 Jan. 28, 4-5 am, HOK, Colon, Panama, 640 kcs. (URDXC).
 Jan. 28, 4-5 am, HP5K, Colon, Panama, 6005 kcs. (URDXC) (Send IRC or unused Panamanian stamps for veri).
 Feb. 4, 4:30-5:30 am, XEDE, Torreon, Coah., 1400 kcs. (URDXC).
 Feb. 11, 4-5 am, XEQK, Mexico City, 1500 kcs. (URDXC).
 Feb. 25, 4:30-5:30 am, XETB, Torreon, Coah., 1310 kcs. (URDXC)

XEDE and XETB are both owned by Aurelio G. Zaragoza. Reports are urgently requested, but it is advisable to send an IRC or unused Mexican stamps for veri.
 Apr. 13, 4:30-5:30 am, XEXT, Tepic, Nayarit, Mexico, 1420 kcs. (Send IRC or unused 10 cvos. Mexican stamps) (URDXC).

NOTE—The National Radio Club is arranging a series of special programs from Canadian stations, and some programs may be scheduled after this list appears in print. DXers who are interested can get the latest dates by sending a postal card to the NRC at 317 E. 10th St., Erie, Pa.

Regular DX Programs

- First day of month, 4-4:30 am, WPAY, 1370 kcs., Portsmouth, Ohio.
 Last day of month, 3-5 am, KWSC, 1220 kcs., Pullman, Wash.
 Every Saturday, 2-3 am, WMBI, Chicago, Ill., 1080 kcs.
 Every Saturday, 2:30-2:45 am, KLS, 1280 kcs., Oakland, Calif.
 Every Saturday, 10:15-10:30 am, WEEU, 830 kcs., Reading, Pa.
 Every Saturday at 10 pm, YN3DG, 13900 kcs., Leon, Nicaragua. (Spatari—10c for veries).
 Every Saturday, 4:15-4:45 pm, W2XJI, 26300 kcs., Newark, N. J. (NNRC tips).
 Every Saturday, 10 pm, YN3DG, 13900 kcs., Leon, Nicaragua. (Spatari program).
 Every Sunday, 2-2:30 am, TG1 on 1310 and TG2 on 6190 kcs., Guatemala City, Guat.
 Every Sunday, 3-5 am, CKLN, Nelson, B. C., 1420 kcs.
 Every Sunday, 10:15-10:45 am, CFCO, 630 kcs., Chatham, Ont.
 Every Sunday, 3-5 am, XEAC, 980 kcs., Tijuana, B. Cfa.
 Every Sunday, 12:30-1 am, TGQA on 6400 and TGQ on 1450 kcs., Quezaltenango, Guatemala. (Spatari program, all reports verified free).
 First Sunday, at 1 am, YN3DG, 13900 kcs., Leon, Nicaragua. (Spatari program).
 First and Third Sunday, 2-4 am, WJBO, 1120 kcs., Baton Rouge, La.
 Every Tuesday, 11:45 am-noon, W9XA, 26450 kcs., Kansas City, Mo.
 Every Wednesday, 12:30 am, KOY, 1390 kcs., Phoenix, Ariz.
 First and Third Wednesday, 1:45-2 pm, WTAR, 780 kcs., Norfolk, Va.
 Every Thursday, 2:45-3 am, KSL, 1130 kcs., Salt Lake City, Utah. (Spatari announcements).
 1st to 7th, midnight to 6 am, KPAB, 1500 kcs., Laredo, Tex. (Mexico Tourist Program; Mexican souvenirs sent to reporters).
 8th to 14th, midnight to 2 am, KPAB, 1500 kcs., Laredo, Tex. (Mexico Tourist Program; Mexican souvenirs sent to reporters).
 15th to 31st, midnight to 6 am, KPAB, 1500 kcs., Laredo, Tex. (Mexico Tourist Program; Mexican souvenirs sent to reporters).
 Second Friday, 12:30-1 am, WJAG, 1060 kcs., Norfolk, Nebr.

Radexing With The Radexers

By Ray La Roque

As "Old Man 1939" draws to a close we must make a few remarks regarding the unusual "comeback" that DX reception has staged during the last few months. Let us hope that the New Year will continue to show an increase in signals from distant points. With the added incentive of the probable good reception ahead, there should be a marked return to the hobby by fans who, in recent years, have turned to shortwaves due to poor conditions on the broadcast band. From appearances thus far we feel it is fairly safe to predict that this season will measure closely with the good old days of '32, '33, and '34.

Competition always creates added interest in any game. DX is a competitive game in a mild sort of way. We're all out to compile a log and a stack of verifications greater than our co-hobbyists. Without a comparative list, there can be no real competition as there is no basis on which to establish the supremacy of one DXer over another. Your Radexer in Chief has worked out a few supremacy listings which ought to cover the field pretty well and give the DXer whose catches are purely domestic a chance as well as the fellow who chases the foreigners. Beginners are also given a show in our listings. In each issue we shall choose two of the foregoing supremacy listings and show the names of perhaps the top ten in each list. This will require five issues, after which time we can repeat the first listings in revised form showing the changes in the logs of each member, providing no new members have surpassed the records of those formerly listed. Only members of the RADEX Club may participate, so if you're not a member send your name today and ask for your membership card and club indicia. Reports sent immediately may reach us in time for inclusion in our next issue. The listings:

Readers living in the Eastern and Central Standard Time Zones may send their reports direct to

Ray LaRoque
4 Wachusett St.,
Worcester, Mass.



This card is the same kind that is used by all the National Commercial Broadcasting Service stations in New Zealand. Other stations, in addition, 1ZB, are 2ZB, 3ZB, 4ZB, and 2ZA. The background is in dark and light blue, and the call letters in red. (Courtesy of A. Mervyn Branks).

SUPREMACY FOR ALL CONTINENTS. List the number of continents you have verified. If all are verified list how many times you have completed the entire set of continents.

SUPREMACY FOR TP's: List the number of trans-Atlantic stations verified.

SUPREMACY FOR TP's: List the number of trans-Pacific stations verified.

SUPREMACY FOR SA's: List the number of South America stations verified.

SUPREMACY FOR UNITED STATES: List the names of the states in which you have verified every station presently operating.

SUPREMACY FOR NORTH AMERICA: List the states of the United States, provinces of Canada, the states of Mexico, and the remaining North American countries in which you have verified at least one

station. Countries other than U.S.A., Canada, or Mexico, count as one state.

SUPREMACY FOR BEGINNERS: For those who have been DXing two years or less up to Jan. 1, 1940. List total number of stations verified.

SUPREMACY FOR OLD TIMERS: List your five oldest verifications with dates of each.

SUPREME SUPREMACY: List total number of verifications and the number of countries you have verified along with the amount of time you have been verifying stations.

There are to be no awards, no special certificates, nor any tangible compensation for the leaders. Just the mere satisfaction of seeing your own name listed in RADEX among the leaders in each particular group will provide sufficient interest to create a little competition without breeding bitter rivalry or jealousy among members which is always the case when there are prizes to be won. The honor system is to be used. We accept your lists as they are written by you. No verifications or other proof will be required of you unless there be sufficient reason to doubt any claim, in which case the member will be expected to back up his claims with proof or forever be branded as a cheater. However, we doubt if there will be need for any branding. So let us have your complete listings in each department immediately on a penny post card or letter.

THIS 'N' DATA

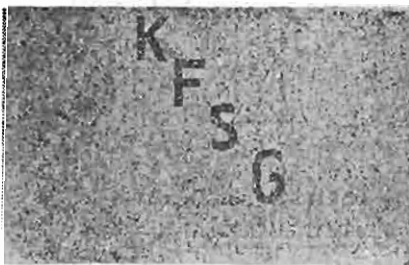
Co-operation among the radio stations fighting for the supremacy of one channel is a rare occurrence. However, KTUL, WIRE, and KLO worked out a plan for increase in power without creating inter-station interference as they all operate on the same channel. The engineers from the three stations got together and submitted their finished plans to the FCC. It was approved immediately by the commission. . . . In October RADEX, Desmond Callan

on its frequency checking schedule. Peter C. Landry (R1208) of Montreal heard WAGM on their November broadcast.

A check for identification is desired concerning the Spanish speaking station on 1104 kcs. most evenings. There is none listed there in RADEX. HJ3ABD used to be on 1104, but is not listed there at present under a new or old call. The veri from that station showed them as 1110 kcs. The above is for the benefit of Joe Lippincott, East Vassalboro, Me.

A very cleverly edited and interesting little bulletin is the "Vertical Radiator" put out by the Virginia Chapter of the RADEX Club under the editorship of Harold Tear. A few items from the bulletin: XET on 639 kcs. signs on the air at 5:30 a.m. daily. . . . LR3 May be heard after 3 a.m. on Sundays. . . . CJCA broadcasts messages to the far North Sundays until 4 a.m. . . . If any RADEXER wants to know what a particular station is using, drop a line to the Virginia Chapter and information will be sent you. The chapter keeps a complete record of equipment used by radio stations.

NBC stations will reach a new high when WALR changes call letters to WHIZ and becomes a supplementary affiliate of the Blue and Red Networks. . . . Desmond Callan discovered that there was a great deal



From KFSG in Los Angeles comes this QSL card picturing Aimee Semple McPherson of the nationally-known Angelus Temple. (Courtesy of Jim Walker).

to be logged by the early riser who gets 'em when they sign on the air. He gives the following sign on times for stations: WSAZ at 6 a.m.; WCHS at 6.m.; WRNL at 6; KWTO at 6; WMMN at 6; WLS at 6:30; WJAX at 6:45; KMA at 5:30; CKOC at 6; WSAL at 6:30; WHIO at 5:45; WNEL at 5:45; WDOD at 6:30; WFBC at 6; WSAL at 6; WSJD at 6; WBTH and WCNC at 6; WING at 6; WQDM at 6; WHIS at 5; WBNS at 6; WBIG at 6; WCKY at 5:55; WOMI at 6; and KITE at 5.

POST OFFICE BOX R9

Fayette City, Pennsylvania—Alfred Razzando: "I have heard a station on 1150 kcs. at 1:45 a.m. to 2:00 a.m. This station was talking about the war and the announcer had a British accent. They closed their war talk of Holland Belgium invasion by a musical selection. This station was badly heterodyned. Can you give any information?" Your station was the synchronized BBC transmitters on 1149 kcs. broadcasting news from London. —RL)

Cleveland, Ohio—Arthur J. Parfitt: "So far I have been using only a piece of wire laying on the floor about 15 feet long. My eight foot vertical antenna was stolen and I have not as yet purchased a new one. On the present arrangement, I've heard CBK, WING, WNOE, WGKV, WENY, CMHI, LR3, 1YA and 2YA, CMCU, and HJ3CAZ. Total verifications now stand at 908 on the broadcast band only."

Kingston, Illinois—Jack Welsh, R790: "Please identify the Spanish speaking station on 830 kcs. under KOA in the evenings? Also the weak Spanish stations on 620 kcs. and the one heard under KHBC on October 29 at 4 a.m."

Chicago, Illinois—Mrs. Bee Catalano: "I read in the October issue that Allen Verrill of Mass., has been DXing a little better than a month and listed his stations. Well, Allen old chap, how in the world did you get your veries back so quickly? I'm

still waiting for a slew of mine. I've been at it since September 14 and have gotten stations from California to New York, Cuba and Canada. So far the only verie I've received came from CKLW, which came two days after mailing. To date I have pulled in 93 stations on the broadcast band and 23 on the shortwaves. Whenever I get to making a log that I can understand and learn to read the short-wave band maybe my report might be different. Let's hope."

Yonkers, New York—Harry Bracken, 480 Hawthorne Avenue: "I have sent for verifications and received replies from the following: WJAX, WBAL, WGY, WTAM, WNAC, WKBW, WFIL, WDAE, WCKY, WBT, WBBRY, and CMCK."

Readville, Massachusetts—Desmond Callan (R987), Green Street: "In the evening the following catches have been heard recently: CBK (sometimes R9 at 10 p.m.), CMCY (one can hear Spanish spoken through local WEEL, 20 miles away), WHKC, WPTF, XEPN (sometimes on top of CKAC), CMCF, CMHI, (blocking out 830 kcs. nightly with 10 kw.), CMX, and CBO both on 880 kcs. CMBQ on 900 kcs. WEI on 930 kcs WHO (no nights when selectivity is good and WBZ doesn't cover them), CJBR, KTHS, CJCB (once when WNAC wasn't too strong), and WORK."

Hoboken New Jersey—John Johnson, 1004 Washington Street: "Starting at 7:30 p.m. I got close to a hundred channels ranging down to 1700 kcs. I would like very much to correspond with other DXers and members of the RADEX Club."

London, Great Britain—Eric Butcher on duty on the American Freighter S.S. Nemaha: "We arrived in London yesterday after an unevenful trip. We have large U.S. flags painted on each side, also on the hatch. The flag is flown 24 hours a day with a spotlight on it at night. European broadcast band DX is a new experience to me, having never heard them



The operator and rig of PY2LN in Sao Paulo, Brazil. (Courtesy of Jack Wells).

before. Such stations as Lille, Toulouse, Rabat, Leipzig, Stuttgart, Munich, Turin, Frankfurt, Radio Paris, Tripoli, come in full volume. Radio International 241 meters—new frequency wishes reports urgently and signs off at 8 p.m. G.M.T. and comes on the air at 9 a.m. GMT. I would like to hear from my friends. Write to Eric Butcher, c/o National Maritime Union, New Orleans, La.”

(Shortly after receiving Eric's letter we learned that his ship had been transferred to a South African registry, and was scheduled to leave New York on December 3 for African ports. We wonder where Eric's next report will come from).

Montreal, Quebec—Peter C. Landry (R1208), 493 Mt. Pleasant Avenue: “This is the first time that I have reported and I thus have quite a lot to say. I have been DXing now for one year. From November '38 till April '39 I DXed at school in Port Hope, Ontario and I heard 405 stations on the broadcast band. I did not send away for verifications. Since July 1, I have been DXing at home here in Montreal and started my log all over again. I have now heard 369 stations, verified 83, and have some

fifty more in the mails. Have heard every state in the U.S.A. with the exception of Arizona, Montana, and Nevada.”

Goshen, Indiana—James O. Weaver: “When we got our first Philco in January 1936, I began DXing in earnest and since then I have heard 597 stations on the broadcast band in the following countries: U.S.A., Canada, Mexico, Cuba, Miquelon, Porto Hawaii, Bahamas, and New Zealand.”

Princeton, New Jersey—Forrest H. Blanding, 173 Nasau Street: “I think that a discussion of the most desirable locations for DX activities would be very interesting. I haven't decided which is the better of the two I have tried, as I haven't really had time. I would also like to see some comments as to actually how much better one of those multi-tube commercial or factory receivers is than an ordinary good 6 or 7 tube superhet than can bring down the noise level at any time. I mean by that, how often would it mean the difference between hearing or not hearing a distant station. I have been using a seven tube table model.”

COVERING THE CONTINENTS Domestic Dialings

FORECAST: January is the second “peak” month in the domestic DX season. In the months of December and January DX conditions should be at their best as these months mark the midway period in the DX season. That this rule does not always hold true and fast can be blamed only on adverse weather conditions which are ever changing.

Komments from the “K” District: KIDO on 1350 kcs. with 1 kw. heard weekdays from 1:30-2 a.m. with R9 signal. . . . KJR at Seattle knives in between XEAW and XEAC from 1-3 a.m. with varying signal from R 5-9. . . . KERN on 1370 kcs. with 100 watts heard R8 when 1370 kcs. is clear at 3 a.m. . . . West coasters good any morning from 1-3 a.m. are KGO, KEPY, KTMS, KLS, KIDO, KFVD, KOIN, KGA, KJR,

XECL, XEMO, and XEAC. (Harold Tear, R924, Roanoke, Va.)

KFEL at Denver, Colorado on 920 kcs. has a request program each Tuesday and Friday morning from 2:30-3 a.m. are very anxious for reports and will verify with an attractive card. (Peter A. Clarius, R6, N. Y. 2, Port Richmond, N. Y.)

KOWH has become affiliated with NBC and becomes the 179th NBC affiliate. (RX)

KWSC on 1220 kcs. announced they were broadcasting their regular monthly DX program on October 29 from 2-5 a.m. (Arthur Parfitt, Cleveland, Ohio)

KTBC on 1120 kcs. at Austin, Texas has been on the air for some time now. (Alvin W. Oliver, Houston, Texas.)

KTKC at Visalia, Calif. on 890 kcs. with 1000 watts having already moved to that channel. . . . KVOB in Denver is now on 630 kcs. with 1000 watts. (Merlin Steen, R6, Decorah, Iowa.)

"W's" in the East: WADC at Akron on 1320 kcs., signs on the air at a.m. an off at a.m. . . . WJW on at 6:30 a.m. and off at 11 p.m., WCLE on 610 kcs. on the air at 6:45 a.m. and off at 6:30 p.m., WHK on 1390 kcs. on at 7 a.m., WCKY on 1490 kcs. on the air at 6 a.m. and off the air at 2 a.m., WROL on 1310 kcs. off the air at 1 a.m. (Steve J. Takacs, Akron, Ohio)

WNBZ at Saranac Lake, N. Y., on 1290 kcs. will dedicate their January 12 FCC check fro 3:55-4:10 a.m. to the Virginia Chapter of the RADEX Club. (Vertical Radiator, bulletin of the Va. Chapter)

WCHS heard testing new 5000 watt transmitter at 2:30 a.m. (Alvin W. Oliver, Houston, Texas)

WHBF stands for "Where Historic Blackhawks Fought, and WOC for "Wonder of Chiropractic." (J. Montgomery, Rock Island, Ill.)

WMFO (as listed in RADEX) at Decatur, Alabama was heard to use the following words to identify their

call: "William, Mary, 'Sugar, Lincoln," making the call letters WSML! (Jack Welsh, R790, Kingston, Ill) (Correct. Call letter has been changed).

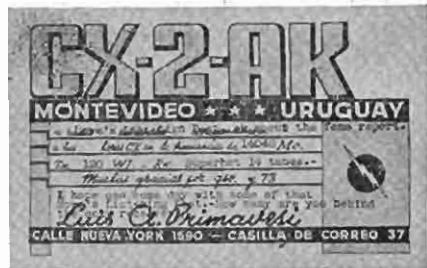
WWNC at Asheville, N. C. will present a DX program on Sunday morning January 7 from 4-5 a.m. The program will be the World DX Alliance of Perth Amboy, N. J. Verifications will be issued in letter form and return postage is required. All reports should be addressed to the Chief Engineer, c/o Radio Station WWNC, Asheville, N. C. (Peter A. Clarius, Port Richmond, N. Y.)

WJW will very shortly become affiliated with Elliott Roosevelt's new Transcontinental Broadcasting System. Tentative plans call for a network of about 100 stations. (RX)

WJAC and WFBG will become affiliated with NBC soon as will WSPD, Mutual will add WEBC and WDSM in Duluth, Minnesota, and WENY in Elmira to their network. (RX)

WSAY is now using 250 watts all the time. All correct reports sent to Thurlow Greene will be promptly verified. . . . WBRU are the new call letters of WMOG in Brunswick, Ga., on 1500 kcs. (Lee Grossman, R1330, Rochester, N. Y.)

WMEX in Boston changed to 250 watts full time. . . . WFBL to 1310 kcs. with 250 watts, with new call of WSOY. They are in Decatur,



From Montevideo, Uruguay, comes card, printed in red, black and blue. The QRA is Luis A. Primavesi, Casilla 37. (Courtesy of W. G. Howe).

Ill. Desmond Callan, Readville, Mass.)

WJAG DX program of November 10 heard with good signal and enjoyable music. (RL-Mass.)

WENY on 1200 kcs. heard testing from 1-4:30 a.m. on November 3. . . . WMRO heard every Wednesday after 2 a.m. . . . WHBC's new station is the second tallest tower in Ohio. It measures 502 feet. (Arthur Parfitt, Cleveland, Ohio)

Canada: CJCA on 730 kcs. with 1 kw. heard nicely after 3 a.m. Sunday mornings. . . . CBR on 1100 kcs. with 5 kw. heard with R 8-9 from 2-2:15 a.m. weekdays. (Harold Tear, Roanoke, Va.)

CFAC on 930 kcs. at Calgary has a request program each Monday, Wednesday, and Friday from 1:30-2 a.m. an dare also anxious to hear from their distant listeners and promise to verify. (Peter A. Clarius, Port Richmond, N. Y.)

CJCA on 730 kcs. heard with messages for North woods inhabitants on Sunday mornings till 4 a.m. (Arthur J. Parfitt, Cleveland, Ohio)

CKX at Brandon, Manitoba on 1120 kcs. is R9 plus with plenty of QRM by WISN, WJBO, and CKOC. . . . CBM at Montreal, P. Q., on 960 kcs. completely wipes out XEAW. . . . CJCA at Edmonton, Alberta is heard Sunday mornings at 3:30 reading letters to people in isolated territories. (Jack Welsh, R790, Kingston, Ill.)

CBA has a marvelous signal all day here. Almost equal to WTIC at night. New catches include CKCK and CBR heard on November 3. . . . VE9EK with 10 watts is my verie contribution to the superpeeew stations listed by Jack Varner (Alton L. Caldwell, Jr., R1319, Brockton, Mass.)

Latin America

Newfoundland: KONF on 640 kcs. is well heard here any evening after 8:30 p.m. with clear channel until sign o at 9:30 p.m. It's an easy catch for most East coast DXers. (Alton Caldwell, Jr., R1319, Brockton, Mass.)



Mario de la Torre, of Havana, Cuba, sends this card with letters and flag in red, white and blue. He is section communications manager for the American Radio Relay League.

Argentina: LE-11 on 1310 kcs. with 32000 watts at La Plata heard on program of October 31, from 3-5 a.m. Interference was encountered from several U.S.A. stations varying according to the location of the receiver (John Chamberlain "R32" N. Y., Harold Tear, Va.; Joe A. Piechuta "R1269", Conn.; Richard Wright, "R23, Ill. 4" Penna.)

It might be well to let DXers know that several of the big Argentina stations have been coming on regularly in the early morning hours with test programs. LS2, LR3,, and LR6 are some of the stations heard on consecutive days all at the same time. LR6 announced a number of Uruguayan stations which were on in conjunction with them, but I was unable to hear any of the CX's.

LR3 on 950 kcs. heard advertising Chevrolet cars each Sunday morning from 3 a.m. (Arthur Parfitt, Cleveland, Ohio)

LR66 on 8770 kcs. heard with R8 signal on October 29 at 3 a.m.. LR3 on 960 kcs. was also R8 at the same time. LS2 on 1190 kcs., was heard on the same date at the same time with R5-6 signal. (Jack Welsh, R790, Kingston, Ill.)

HJ3CAZ on 1040 kcs. at Bogota heard one morning after WTIC signed off. (Joseph Piechuta, R1269, Meriden, Conn.) Verification from

HJ3CAZ states address as, "La Voz de Colombia", Apartado no. 26-65 with schedule from 10:30 a.m. to 2:00 p.m. and 5:30 p.m. to 11:30 p.m. (Colombia Local Time). Arthur J. Parfitt Cleveland Ohio)

Cuba: Has CMOX shifted to 1510 kcs? They were logged one night with my dial set on 1510 kcs. and there were no other stations in the background. . . . Many Cubans pile in on the locals here in the early evening. CMKS over WOR, and CMCK over WCFL, to state an outstanding example. (Harold L. Gilgen, R820, Marshalltown, Iowa)

CMBX on 1080 kcs. was pulled through with an R7 signal while WTAM (1070 kcs). and WBT (1080 kcs.) were both on the air. Hubert Martz, Langley Field, Va.)

CMBC on 690 kcs. is having a tough with XET. CMCF on 810 kcs. completely wipes out WCCO. (Jack Welsh, R790, Kingston, Ill.)

CM9RT (as listed) on 1580 kcs. announces merely as CMRT. They are heard with a very weak signal until 11 p.m. evenings. . . . CMZ is believed to be the call of a new station heard on 920 kcs. operating in Havana. It has been heard every and judging from the signal, my guess is the power is from 500-1000 watts. (John D. Chamberlain, R32, Rochester, N. Y.)

Guatemala: TGQ on 1450 kcs. with 200 watts heard Sunday mornings from 12:30-1 a.m. Arthur Parfitt, Cleveland, Ohio; Harold Tear, R924, Roanoke, Va.)

TGW heard so regularly on 1520 kcs. that it can hardly be called DX here. (Joe A. Piechuta, R1269, Meriden, Conn.)

Mexico: XEDH at Villa Acuna, Coah. heard from 3-4 a.m. on October 31. They sign off at 4 a.m. with an organ selection. (Jack Welsh, R790, Kingston, Ill.; and Harold Tear, Roanoke, Va.)

XEAW is on all night now. They verify with a letter signed by B. Mantalu. Return Postage is not re-



An interesting QSL card from KAILB in San Juan, Rizal, Philippines. (Courtesy of Jack Well).

quired. . . . XENT is back with a new transmitter after an explosion in August. (Desmond Callan, R987, Readville, Mass., and Phillippe Bates, R1231, Philadelphia Penna.)

XECL in Mexicali has been positively identified on 1110 kcs. using 1000 watts and they are on regularity until 3 a.m. . . . XESM has been heard regularly in the early morning hours on 1400 kcs. They seem to be an all nighter now. . . . XERC on 830 kcs. heard with R5-6 signal. Probably a test program. (John D. Chamberlain R32, Rochester, N. Y.)

XEP on 1160 kcs. heard with fair signal at 1:30 a.m. (Joe A. Piechuta, R1269, Meriden, Conn.)

XESM on 1410 kcs. is heard almost every a.m. They are apparently an all-nighter in Mexico. (RL—Worcester, Mass.)

XERA in Villa Acuna sends a good veri to all correct reporters. It is easy to pick up this station. Card is red and black on cream. (Phillippe Bates, R1231, Philadelphia, Pa.)

XEMO and XET are new ones heard here. Log is now 462 stations on the broadcast bands. Alton L. Caldwell, Jr., R1319, Brockton, Mass.)

Peru: OAX4A on 854 kcs. heard on November 12 from 8-9 p.m. with signal from R5-6. (Art Parfitt, Cleveland, Ohio). OAX4A heard here on October 30 from 3-3:30 a.m. broad-

casting a special program. Location is Lima. John D. Chamberlain, R32, Rochester, N. Y.)

Uruguay: According to a veri rec'd from SODRE (Servicio Oficial de Difusion Radio Electrica) the following broadcast band stations are owned and operated by them: CX-6 on 650 kcs., with 25000 watts; and CX-38 on 1290 kcs. with 5000 watts. (Owen Callin, Columbus, Ohio)

CX-18 on 890 kcs. For Romney of W. Va.) Re-submit your report with return postage to the following address: Lorenzo F. Balerio Sicco, Administrador, Difusoras Radio Sporte, Calle Olimar 1364, Esquina Avenida 18 de Julio, Montexideo, Uuguay. (Arthur Parfitt Cleveland, Ohio)

Tuning the TA's

FORECAST: Instead of a forecast we suggest that you tune all month for TA's and use the following table of stations heard by Joseph T. Lippincott for your guide as to the best bets from Europe:

- 638 kcs. Prague from 12:40:00 a.m., R5
- 658 kcs. Cologne 1:18-3:12 a.m. R8
- 668 kcs. Enganl 2:10-2:40 a.m. R7
- 722 kcs. Holland 3:08- R4
- 740 kcs. Munich 1:25-2:17 a.m. R5
- 749 kcs. marseilles 2:30-3:17 a.m. R4
- 767 kcs. England 2:12-3:05 a.m. R8
- 776 kcs. Toulouse 1:21-2:25 a.m. R7
- 785 kcs. Leipzig 1:17-3:30 a.m. R6
- 841 kcs. Berlin 1:49-2:35 a.m. R66
- 850 kcs. Stavenger 2:01-2:08 a.m. R8
- 868 kcs. Pozan 2:10-2:31 a.m. R6
- 904 kcs. Hamburg 1:05-3:30 a.m. R7
- 941 kcs. ? ? ? ? 3:07-3:12 a.m. R6
- 995 kcs. Holland 3:50-3:55 a.m. R4
- 1031 kcs. Konigs 3:18- a.m. R6
- 1040 kcs. Rennes 12:36-3:00 a.m. R9
- 1068 kcs. France 4:50-5:00 a.m. R6
- 1077 kcs. Bordeau 1:25-2:50 a.m. R7
- 1131 kcs. Horby 3:36-3:46 a.m. R6
- 1140 kcs. Italy 2:05-2:25 a.m. R5
- 1149 kcs. England 1:03-2:10 a.m. R9
- plus
- 1185 kcs. Nice 1:19-1:40 a.m. R7
- 1195 kcs. Frankfort 1:10-2:00 a.m. R7
- 1213 kcs. Lille 1:42-2:00 a.m. R6

- 1222 kcs. France 1:40-:01 a.m. R7
- 1222 kcs. Rome 5:45-5:35 a.m. R8

Signal strength shown is maximum for that particular station. Times are when heard and not actual sign-on or sign-off. Information is desired on France—1222 kcs., mystery on 941 kcs., and Pozan on 868 kcs., which is a German speaking station, but definite identification is not certain. (Joe Lippincott East Vassalboro, Maine)

France: "Radio International" broadcasting on 1410 kcs. for the British Expeditionary Forces in France heard with very good signal R7-8. They began fading at 2:30 a.m. . . . Boreadux on 1077 kcs. heard R5 signal at 2 a.m. . . . Rennes heard on 1040 kcs. with R 7-9 signal with German program at 1:20 a.m. (Joe A. Piechuta, R1269, Meriden, Conn.)

Toulouse on 776 kcs. heard with church services near 2:45 a.m. with R 4-5 signals. . . . Rennes on 1040 kcs. heard on November 11 from 1:20-1:58 a.m. Announcements at 1:45 very clear. Signal peaked as high as R7 with thirty-five minutes of program copied easily from loud speaker. Also heard on November 22. Alton L. Caldwell, Jr., R1319, Brockton, Mass.)

Germany: Leipzig heard here at 3:00 a.m. November 12 with man giving talk in German with R4 signal. (Alton Caldwell Jr., R1319, Brockton, Mass.)

Stuttgart on 574 kcs. heard with R7 signal this morning after 2 a.m. (Carl Horton, Athol, Mass.)

Great Britain: London (and others synchronized) on 1149 kcs. heard almost every morning coming on the air with a news broadcast in English starting at 1:45 a.m. Their carrier goes on the air at 1:30 a.m. and continues fifteen minutes with an interval signal which sounds like the slow constant beating of a hammer on wood. Signal has reached an R9 on peaks. (RL-Worcester, Mass., Joe Piechuta, R1269, Meriden Conn.; and

(Please turn to page 53)

The SHORTWAVE STATIONS

● The shortwave list, arranged by frequencies in kilocycles, gives the schedules of the shortwave broadcasting stations. When requesting verifications from radio stations, return postage should always be sent. Return postage to foreign countries can be sent in the form of an International Reply Coupon, available at any post office at 9c each. Unused postage stamps from many foreign countries, which can be sent instead of Reply Coupons, are available from the Return Postage Bureau, 85 Francisco Ave., Rutherford, N. J.

Time is Eastern Standard.

Subtract 1 hour for Central, 2 hours for Mountain and 3 hours for Pacific.

2320 TGWC	Guatemala City, Guat. 1 kw. See TGWA. Sun, 10:30 am-5:15 pm; 7 pm-midnight. Other days, 7:45-9 am; 12-45-3:45 pm; 7:30 pm-12:15 am.	4810 YV1RU	Maracaibo, Venez. "Radio-difusora Maracaibo," Luis Mantellini H.
2340 HOA	Panama City, Panama. "Ron Dalley," Salvador Graziani, Box 1121. (6-10 pm).	4815 HJ2BAB	Cucuta, Colombia. 600 w. Relays HJ2BAC, "La Voz de Cucuta."
2437 HRN	Tegucigalpa, Honduras. 500 w. Noon-1:30 pm; 7-10:30 pm. "La Voz de Honduras."	4820 YV3RN	Barquisimeto, Venez. "Radio Barquisimeto," Amilcar Segura.
3400 YV5RW	Caracas, Venez. "Radio Turmerito," Cesar Banuls.	4825 HJ5EAD	Cali, Colombia. 720 w. "La Voz del Valle."
3450 YV6RC	Barcelona, Venez. Gobierno Edo Anzoategui.	4830 YV5RH	Caracas, Venez. Relays YV5RG, "Ondas Populares," Gonzalo Veloz Mancera, Aptdo. 1931.
3480 YV3RF	Acarigua, Venez. "La Voz del Llano," Pausides Sigala.	4835 HJ1ABE	Cartagena, Colombia. 525 w. Relays HJ1ABF, "La Voz de los Labs. Fuentes," Apartado 31.
3480 2ZB	Wellington, New Zealand. 200 w. At 7 am.	4840 VUC2	Calcutta, India. 10 kw. 7:30 am-1 pm. All-India Radio.
3488 XZZ	Rangoon, Burma. 50 w. W. J. Byrnes, Burma Independent Wireless Sub-Division, Strand Road. (Sun, 8:30-10:30 pm; Daily 5:30-9 am; 8:20-10:30 pm).	YV4RX	Maracay, Venez. "Radio Maracay," Luis Croquer.
3490 CR7AB	Lourenco Marques, Mozambique. Sun, 5-7 am; 10 am-2 pm; Weekdays, midnight to 1 am; 4:30-6:30 am; 9:30-11 am; noon-4 pm. Radio Club de Mocambique, Box 594.	4845 HJ3CAD	Bogota, Colombia. 720 w. "Nueva Granada."
3500 YV5RV	La Guaira, Venez. "Emisora Vargas," Gonzalo Veloz Mancera.	4850 YV1RZ	Trujillo, Venez. "Radio Valera," L. Febres Jelambi.
4002 CT2AJ	Ponta Delgada, Azores. Wed, Sat, 5-7 pm.	4860 YV1RL	Maracaibo, Venez. 300 w. Relays YV1RK "Radio Popular," sign off "National Emblem March." Jose A. Higuera, Apartado 247. (6-11 pm).
4107 HCJB2	Quito, Ecuador. 1 kw. 7-8:15 am; 11:30 am-2:30 pm; 2:45-10:15 pm. "Broadcasting Provincial," Clarence W. Jones, Casilla 691.	4865 HJ2BAJ	Santa Marta, Colombia. 751 w. 10:30 am-2 pm; 5-11 pm. "La Voz de Santa Marta."
4273 RVI5	Khabarovsk, U.S.S.R. 20 kw. 4-10 am. Miss Rowena Meyer, Radio Committee.	4870 YV2RN	San Cristobal, Venez. "La Voz del Tachira," Jesus Diaz Gonzalez.
4300 4ZB	Dunedin, New Zealand. 30 w. At 6 am.	4875 HJ6FAH	Armenia, Colombia. 600 w. 9 am-2 pm; 6-11:30 pm. "La Voz de Armenia."
4770 YV1RT	Maracaibo, Venez. "La Voz de la Fe," Pedro A. Bermudez V.	4878 ZTD	Durban, Union of S. Africa. See "Johannesburg." (11:45 pm-12:50 am).
4775 HJGAB	Bucaramanga, Colombia. 750 w. 6-10:45 pm. "Radio Santandar."	4880 VUB2	Bombay, India. 10 kw. 8 am-1 pm. All-India Radio.
4780 YV1RO	Trujillo, Venez. "Radio Trujillo," Pedro J. Torres.	YV6RU	Ciudad Bolivar, Venez. "Ecos del Orinoco," E. Torres Valencia.
4785 HJ1ABB	Barranquilla, Colombia. 600 w. Relays HJ1ABA, "La Voz de Barranquilla," Apartado 715. Interval signal, 3 chimes.	4885 HJ4DAP	Medellin, Colombia. 501 w. Relays HJ4DAQ. 9 am-2 pm; 7 pm-midnight. "Emisora Claridad."
4790 YV5RY	Caracas, Venez. "La Voz de la Esfera," Edmundo Suegart.	4890 YV1RX	Maracaibo, Venez. "Ondas del Lago," Nicolas Vale Quintero.
4795 HJ3CAF	Bogota, Colombia. 750 w. La Voz de Bogota.	4895 HJ3CAH	Bogota, Colombia. 720 w. "La Voz de la Victor." Relays HJ3CAL. Almacenes Victor, Aptdo 565.
HJ6FAI	Ibague, Colombia. 501 w. "Ecos del Combeima."	4900 YV6RT	Ciudad Bolivar, Venez. "Radio Bolivar," Miranda & Behrens.
4800 YV1RV	Maracaibo, Venez. "Ecos del del Zulia," Luis Garcia.	4910 YV1RY	Coro, Venez. "Radio Coro," Roger Leyba.
4805 HJ6FAB	Manizales, Colombia. 501 w. "Radio Manizales."	4920 VUM2	Madras, India. 10 kw. 7:30 am-1 pm. All-India Radio.

- YV5RU Caracas, Venez. "Estudios Universo," Mario Garcia Arocha.
- 4930 YV4RP Valencia, Venez. "Radio Valencia," Luis Croquer.
- 4940 YV5RQ Caracas, Venez. "La Voz de Venez.," Marquis y Linares.
- 4950 YV4RO Valencia, Venez. "La Voz de Carabobo," Herman Degwitz.
- 4960 VUD2 Delhi, India. 10 kw. 7:30 am-1 pm. All-India Radio.
- YV5RS Caracas, Venez. "Radio Libertador," Victor M. Soto.
- 4975 YV1RJ Coro, Venez. "Radio Falcon," J. A. Mendoza.
- 4980 YV5RT Caracas, Venez. "Gobierno Nacional."
- 4990 YV3RX Barquisimeto, Venez. "La Voz de Lara," Arturo Ramos Maggi.
- 5000 YV5RK Caracas, Venez. Gobierno Nacional.
- 5010 YV5RM Caracas, Venez. "Radio-difusora Venez." Degwitz y Sibletz.
- 5020 YV4RQ Puerto Cabello, Venez. Radio Pro. Cabello," Rafael A. Segura.
- 5040 YV5RN Caracas, Venez. Radio Caracas," Almacen Americano.
- 5146 PMY Bandoeng, Java, N. E. I. 1 kw. Sat, 8 pm-3:30 am. Sun, 5:30 am-noon. Other days, 5:30 am-noon; 7 pm-3 am.
- 5300 ZIK3 Belize, Brit. Honduras. (8:30-8:50 pm).
- 5713 TGS Guatemala City, Guat. 200 w. Thur, Sat, 6-9 pm. Radiotransmisora de la Casa Presidencial.
- 5824 TIGPH San Jose, Costa Rica. 1 kw. "Alma Tica," Gonzalo Pinto H., Aptdo. 800. (7 pm-midn't).
- 5875 HRN Tegucigalpa, Honduras. 500 w. "La Voz de Honduras," Mr. Paul John. Interval, notes from national anthem, and signs off with "Goodnight Waltz." 8 pm-midnight.
- 5880 ZEA Salisbury, Southern Rhodesia. 325 w. Gen'l. P. O., Station Sec'y., Box 792. Sun, 3-5 am.
- 5940 PJC1 Willemstad, Curacao. 150 w. "Radio Curom," Curacaosche Radio Vereeniging, Emmastad, Curacao. 7:45-9:35 pm.
- 5945 TG2X Guatemala City, Guat. 200 w. "Policia Nacional." Tue, Wed, Fri, 11 am-1 pm. Sat, 11 am-3 pm.
- 5975 CS2WD Lisbon, Portugal. 250 w. Radio Renascenca, Rua do Capelo 5-2 esq.
- OAX4P Huancayo, Peru. 250 w. "Radio-Andina Junin," J. Alberto Maduana, Cuzco 25.
- 5980 VONG St. John's, Newfoundland. Newfoundland Brdstg. Corp. Relays VONE. 8:30 am-12:30 pm; 4:30-9:30 pm.
- 5984 HJ4DAG Quibdo, Colombia. 150 w. "La Voz del Choco.
- 5995 VUD2 Delhi, India. 10 kw. All-India Radio. 7:30 am-12:30 pm.
- 6000 CXA2 Montevideo, Uruguay. 5 kw. Cia. de Radio Publicidad Continental, J. C. Gomez 1431. 10 am-10 pm.
- HH2S Port-au-Prince, Haiti. Societe Haitienne de Radiodiffusion, Box 103. (7-10 pm).
- RV59 Moscow, U.S.S.R. 7-9:15 pm. Mexico City, D. F. 500 w. Interval signal, cuckoo calls, and sign off with "Liebestraume." El Buen Tono, S. A., Apartado 79-44. 11 am-1 am.
- 6005 CFCX Montreal, P. Q. 75 w. Relays CFCF. Canadian Marconi Co., Ltd., Box 1690. Sun, 10 am-11:15 pm. Weekdays 7:45 am-1 am.
- HP5K Colon, Panama. 200 w. Relays HOK, "La Voz de La Victor, Apartado 33. Noon-2 pm; 6 am-midnight.
- 6007 XYZ Rangoon, Burma. 1500 w. Burma Independent Wireless Sub-Division, W. J. Byrne, Strand Road. Sun, 8:30-10:30 pm; Daily 5:30-9 am; 8:20-10:30 pm).
- ZRH Pretoria, Union of So. Africa. 5 kw. See "Johannesburg." Sat, 9:30 am-4:45 pm; Sun, 8:40 am-noon; 12:15-3:15 pm; Other days, 9:30 am-3:30 pm; 11:45 pm-12:50 am.
- 6010 CJCX Sydney, N. S. 1 kw. Relays CJCB. Eastern Broadcasters, Ltd., Radio Bldg. Sun, noon-1:30 pm; Weekdays 9 am-2:30 pm.
- PRA8 Recife, Brazil. 5 kw. "A Vox do Norte." Radio Club do Brasil, Avenida Cruz Cabuga 394. Time signals at Noon and 7 pm Brazil Time. Sign off with national anthem. 9 am-noon; 1-3 pm; 4-9 pm.
- 6015 HI3U Santiago de los Caballeros, D. R. 100 w. "La Voz del Comercio," Fernando Bertran, Apartado 23. Sign off "Mario la O" on organ and national anthem. 7:15-9 am; noon-2 pm; 4:45-8 pm.
- XEWI Mexico City, D. F. 400 w. Institucion Municipal de la V. I., Mina 56.
- 6020 DJC Berlin, Germany. 50 kw. See "Berlin." 11:30 am-4:25 pm.
- XEUW Veracruz, Ver. C. 20 w. "El Eco de Sotavento desde Veracruz." Av. Independencia 98. Verifies for 3c USA stamp. 8 am-midnight.
- 6025 HI1J San Pedro de Macoris, D. R. 100 w. Fausto M. Domastorg, Aptdo 204. (8-11 pm).
- 6030 CFVP Calgary, Alta. 100 w. Voice of the Prairies, Ltd., Toronto General Trusts Bldg. (Thur, 9 am-1 am; Sun, noon-midn't.) Panama City, Panama. 100 w. Estacion Radiodifusora Miramar de la Radio Panama, Apartado 910. 5-10 pm.
- HP5B Las Juntas, C. Rica. 500 w. "La Voz del Guanacaste," Rubca Venegas M.

- 6040 KZIB Manila, Philippines. 1. Beck Inc., Box 440. (4-10 am; 6 pm-12:30 am).
- 6040 WSLA Boston, Mass. 20 kw. See WSLA.
- WDJM Miami, Fla. 5 kw. 10 pm-1 am. Relays WIOD. Ruth Richardson, Isle of Dreams Broadcasting Corp.
- YDA Tandjong Priok, N.E.I. 10 kw. NIROM. Sign, off, "End of a Perfect Day."
- 6042 HJ1ABG Barranquilla, Colombia. 600 w. Relays HJ1ABH. "Emisora Atlantico," Aptdd. 445.
- 6044 ZP14 Villarrica, Paraguay. 1 kw. "Radio Cultura."
- 6045 XETW Tampico, Tams. 100 w. Relays XEFW, Flores y Martinez, Francisco I, Madero 204 Ote. Sun, 10 am-4 pm. Weekdays, 10 am-10 pm.
- 6053 VK9MI M. V. "Kanimbla." 50 w. Sign off "God Save the King." McIlwraith & McEacharn, Ltd., Melbourne, Australia. (7:15 am).
- 6054 HJ6FAB Pereira, Colombia. 501 w. "La Voz de Pereira." Bern, Switzerland. 25 kw. See eBrn.
- 6055
- 6060 VQ7LO Nairobi, Kenya. Cable & Wireless, Ltd., Box 777. 11 am-2:30 pm.
- 6060 WCAB Philadelphia, Pa. 10 kw. See "WCAB." (Sun, 6:30-11 pm; Tu, F, 6:30-11 pm; Wed, 6:30-8:30 pm).
- WLWO Cincinnati, Ohio. 10 kw. See "WLWO".
- 6065 SBO Stockholm, Sweden. 500 w. 5:15-5 pm. Telegrafverket Tjanstebrev 5.
- 6070 CFRX Toronto, Ont. 1 kw. Sun, 10:30 am-midnight. Weekdays 7:30 am-midnight. Relays CFRB. Rogers Radio Broadcasting Co., 622 Fleet St.
- 6079 DJM Berlin, Germany. 50 kw. See Berlin."
- 6080 CKFX Vancouver, B. C. 10 w. Relays CKFC Standard Brcdstg. Sys., 1504 Sun Bldg. 2 pm-midnight.
- HP5F
WCBI
Chicago, Ill. 500 w. See "WCBI".
- 6080 XEQQ Mexico City, D. F.
- 6082 OAX4Z Lima, Peru. 10 kw. Radio Nacional." Relays OAX4A, Av. Petit Thouars 447.
- 6090 ZNS Nassau, Bahamas. Superintendent of Telegraphs, Box 48 (No postage required for veries).
- 6097 1/2 ZRJ Johannesburg, Union of So. Africa. 200 w. See "Johannesburg." Sat, midnight to 12:50 am; 3:15-7 am; 8:30-11:30 am; Sun, 3:30-4:30 am (or 4-5 am); 5:30-7 am; 8:40-11:30 am; Other days, 3:15-7 am; 9 am-1:30 pm; 11:45 pm-12:50 am.
- ZRK Capetown, Union of So. Africa. 5 kw. See "Johannesburg." Sun, 3:30-4:30 am (or 4-5 am); 5:30-7 am;
- 9 am-11:45 am; noon-3:20 pm; Weekdays, 3:20-7:20 am; 9-11:45 am; noon-4 pm; 11:45 pm-12:50 am.
- 6100 KZRH Manila, Philippines. "Radio Heacock," Escolta. (5-11 pm).
- 6100 W9XF Chicago, Ill. 10 kw. Relays NBC-WENR. Audience Mail Dept., NBC, Inc., Merchandise Mart. Sat, 1:05-2 am; 4-5:30 pm; Sun, 1-5:45 pm; Other days, 1:05-2 am; 4-5:45 pm.
- YUA Belgrade, Yugoslavia. 1 kw. 12:45 am-5:30 pm. "Radio Beograd" Bureau Central de Presse, Poste Emetteur a Ondes Courtes. Annonce in Serbian, Italian, English, German, Turkish, Hungarian, Albanian, and Greek. (12:45 am-5:05 pm)
- 6105 HI3C La Romana, D. R. 30 w. A. Herrero Hernandez.
- 6110 GSL London, Gt. Britain. "I, for Liberty." See "London."
- XEGW Mexico City, D. F. 250 w. Jose G. Garza Fox, San Juan de Letran 81.
- 6116 Saigon, Fr. Indo-China. "Radio Saigon." (6 am).
- 6120 WCBX New York, N. Y. 10 kw. See "WCBX." (Midnight-2 am).
- 6122 HI8T San Cristobal, D. R. 30 w. Raul Henriquez.
- 6122 FK8AA Noumea, New Caledonia. Relays FJP. Announces, "Ici Noumea," and signs off with Marseillaise. 44 rue de l'Alma. Tues, Sat, 2:30-3:30 am.
- HJ3CAZ Bogota, Colombia. 750 w. Relays HJ3CAZ, La Voz de Colombia, Aptdo 772. (Heard on 6012 kcs). (Sun, Noon-1:30 pm; 6-11 pm; Other days 10:30 am-2 pm; 5:30-11:30 pm.)
- TGWB Guatemala City, Guat. 1 kw. Sun, 10:30 am-5:15 pm; 7 pm-midnight. Weekdays, 7:45-9 am; 12:45-3:45 pm; 7:30 pm-12:15 pm. See TGWA.
- 6130 CHNX Halifax, N. S. 500 w. Sat, 8 am-11:30 pm; Sun, noon-11:15 pm; other days, 7 am-11:15 pm. Maritime Broadcasting Co., Lord Nelson Hotel
- COCD Havana, Cuba. 250 w. Relays CMCD. "La Voz del Aire," S. A., Sr. J. Benitez, Aptdo. 2294.
- LKJ Oslo, Norway, 5 kw. See "Oslo."
- 6132 VP3BG Georgetown, British Guiana. Brit. Guiana United Brcdstg. Co., Box 11. (10:30 am-11:30 am; 4-8 pm).
- XEXA Mexico City, D. F. 100 w. Depto. de Publicidad y Propaganda, Sr. Jose Rivera.
- 6137 OR7AA Lourenco Marques, Port. East Africa. Radio Club de Mocambique, Caixa Postal 594. Sun, 5-7 am; 10 am-2 pm; Weekdays, midnight-11 am; 4:30-6:30 am; 9:30-11 am; noon-4 pm.

- 6140 KZRF Manila, Philippines. "Radio Filipinas," Insular Life Bldg. (5:30-11 pm).
WPIT Pittsburgh, Pa. 40 kw. See "WPIT." (11 am-noon).
- 6145 HJ4DAE Medellin, Colombia. 700 w. "La Voz de la Antioquia."
6147 1/2 ZRD Durban, Union of So. Africa. 200 w. See "Johannesburg."
Sat, 3:30-7:30 am; 9-11:15 am; Sun, 5:30-7 am; 9-11:16 am; Weekdays, 11:45 pm-12:50 am.
- 6150 CJRO Winnipeg, Man. 2 kw. James Richardson & Sons, Ltd., 157 Royal Alexandra Hotel.
- 6150 TIEMC San Jose, C. Rica. 250 w. "Radio El Mundo," Rafael Hine Ch.
- 6165 TILS San Jose, Costa Rica. 2 kw. "Para Ti," Luis Saenz Mata, Aptdo. 3.
6165 Bern, Switzerland. 25 kw. See "Bern."
- 6170 HI4V San Francisco de Macoris, D. R. 100 w. Luis R. Betances R.
- 6174 XEXA Mexico City, D. F. Relays XEXM, Departamento Autonomo de Prensa Publicidad (DAPP). Sign off, "March of the Toys." 8:30 am-midnight.
- 6185 HI1A Santiago de los Caballeros, D. R., 75 w. "La Voz del Yaque," Rafael Western. (Weekdays, 8-10 pm).
6190 HVJ Vatican City. 15 kw. Mon, Thur, Sat, 2-3:30 pm; Tues, Fri, 2-3 pm; Wed, 2-2:30 pm; 3-3:30 pm. See HVJ.
- 6190 KGEI San Francisco, Calif. 20 kw. See "KGEI."
6190 TG2 Guatemala City, Guat. 200 w. "Radio Morse," Director General of Electrical Communications. (Sat, 7:30-9 am; 6 pm-1 am; Sun, 7:30-11 am; 3-8 pm; Other days, 7:30-9 am; 6-11 pm).
WGEO Schenectady, N. Y. 40 kw. See "WGEA."
.... Athlone, Ireland.
6200 COKG Santiago de Cuba. 1200 w. Relays CMKG. "Ask For Bacardi." Sres. Grau y Caminero, Aptdo. 137. Daily exc. Sat, 9 am-11 pm.
XEXS Mexico City, D. F. 100 w. Departamento de Salubridad Publica.
ZGE Kuala Lumpur, F.M.S. Institute of Medical Research. Sun, Tue, Fri, 6:40-8:40 am. Sa i g o n, Fr Indo-China. "Radio Boy-Landry." Establishments Boy-Landry. 5:30-9 am.
6235 HRD2 La Ceiba, Honduras. 250 w. 8-11 pm. "La Voz de Atlantida."
6243 HI1N Trujillo, D. R. 700 w. Weekdays, noon-2:30 pm; 5:45-10 pm. Sign off national anthem. Relays HIN. J. M. Bonetti Burgos.
- 6280 HI1G Trujillo, D. R. 200 w. Relays HIG. Andres Cordero Puello.
6282 COHB Sancti-Spiritus, Cuba 150 w. Relays CMHB, V. E. Weiss y O. Ramirez, Calle Independencia 33. 9-11 pm.
6295 OAX4G Lima, Peru. 400 w. Relays OAX4B, "Radio Grellaud," Roberto Grellaud y Cia., Sen Abencay 915-23 (7-9:30 pm).
6312 ZP14 Villarica, Paraguay, 1 kw. "Radio Cultura."
6316 HI1Z Trujillo, D. R. 100 w. Relays HIZ. Frank Hatton.
6330 COCW Havana, Cuba. 7 am-midnight. Relays CMW. "La Voz de las Antillas," Apartado 130.
6335 OAX1A Chiclayo, Peru. 200 w. "La Voz de Chiclayo." Elias Aguirre 171, Casilla 9. Sign off, "Good Night Waltz." (Sat, 10 pm-midnight; Other days, 8-11 pm).
6340 HI1X Trujillo, D. R. 900 w. Relays HIX. J. R. Saladin. (Tues, Fri, 8-10 pm).
6351 HRP1 San Pedro Sula, Honduras. 100 w. 12:30 pm-12:30 am. "El Eco de Honduras."
6355 IAC Rome, Italy. See "Rome." (3-3:35 pm).
6380 ZIZ Basseterre, St. Kitts. (Reported on 6384). Daily 4-5 pm; Wed, 7-7:30 pm.
6383 HI9B Santiago, D. R. 200 w. Jacinto L. Sanchez, Aptdo. 95.
6420 HI1S Santiago de los Caballeros, D. R. 200 w. "La Voz de La Hispaniola." Generoso Sarnelli. (6-11 pm).
TGQA Quezaltenango, Guat. 200 w. Relays TGQ, "La Voz de Quezaltenango," Director General of Electrical Communications. (Sat, 10 pm-1 am; Sun, 1-3 pm; Other days, 9-11 pm).
6425 W2XGB Hicksville, N. Y. 10 kw. Press Wireless, Inc.
6480 HI1L Santiago, D. R. 100 w. "Emisora Nacional," Maria J. Tavarez, Calle Pres. Trujillo 97. (6:30-8 am; 5:30-7 pm; 8-9:45 pm).
6480 TGWB Guatemala City, Guat. 1 kw. (Reported on 6495). See TGWA.
6500 HIL Trujillo, D. R. 60 w. J. C. Teixido, Aptdo. 623.
6550 TIRCC San Jose, C. Rica. 500 w. Accion Catolica, Prbo. Carlos Borge, Aptdo. 1064.
6565 HI5P Puerto Plata, D. R. 30 w. J. M. Modesto.
6590 COCU Havana, Cuba. Jorge Garcia Serra, Estrada aPima 25, Vibora. (Sun, 6:55 am-midnight; Weekdays, 6:55 am-1 Trujillo, D. R. 100 w. Emilio Garden, Jr.
6622 PRADO Rio Bamba, Ecuador. Fabrica de Tejidos de "El Prado," Aptdo. 98. (Thur, 9-11 pm).
6630 HIT Trujillo, D. R. 100 w. "La Voz de La RCA-Victor," F. A. Sanabia, Aptdo. 1105. Interval, bells; sign off, na-

- tional anthem. (Sun, 10:45 pm-12:45 am; Weekdays, 5:45-8:45 pm).
- 6638 HC2RL Guayaquil, Ecuador. 200 w. "Quinta Piedad," Dr. Roberto Levi, Casilla 759. Interval, "Hello, America," sign off, national anthem. (Sun, 5:30-7:30 pm; Tues, 9-11 pm).
- 6660 HI6Y Trujillo, D. R. 30 w. Alfonso Cuervo.
- 6675 HBQ Geneva, Switzerland. "Radio Nations." (Sun, 1:45-2:45 pm).
- 6690 VK8SK Broken Hill, Australia. At 2:30 am. Australian Aerial Medical Service.
- 6700 TIEP San Jose, C. Rica. 1 kw. "La Voz del Tropico," Eduardo Pinto H., Aptdo. 257. (4-11 pm).
- 6710 PMH Bandoeng, Java, N.E.I. 1500 w.
- 6780 HIH San Pedro de Macoris, D. R. 250 w. "La Voz de Higuanamo," Domingo Dominguez.
- 6800 PZH Paramaribo, Surinam.
- 6960 2ZB Wellington, New Zealand. 200 w. Amateurs.
- 7000 to 7300 Valladolid, Spain. 7:30 am-5:30 pm.
- 7010 XPSA Kweiyang, China. 10 kw. (Reported on 6970 and 7140). (5:30-10:55 am).
- 7088 PI1J Dordrecht, Netherlands. 50 w. Technical College. (Sat, 10 am-12:50 pm).
- 7090 FO8AA Papeete, Tahiti. Radio Club Oceanien. (Tues, Fri, 11 pm-midnight).
- 7100 EA9BJ Spanish Morocco.
- 7177 CR6AA Lobito, Angola. (Wed, Sat, 2:45-4:30 pm).
- 7200 EA8AE Las Palmas, Canaries. (Reported on 7150).
- 7220 12RO11 Rome. Italy. 100 kw. See "2RO."
- 7222 YV9AB In Venezuela on Guiana-Brazil Border. Expedicion Tecnico de Minería y Geología, Ministerio de Fomento, Caracas.
- 7260 FET8 Spanish Morocco. (5-7 pm).
- 7270 EA8AS Teneriff, Canaries. Relays EAJ43. (Wed, 4-5 pm).
- 7300 VIG Port Moresby, Papula. Relays 4 pm. A call sign, not time.
- 7310 Madrid, Spain. "Radio Nacional."
- 7380 XECR Mexico City, D. F. 20 kw. Secretaria de Relaciones Exteriores. (Sun, 6-8 pm).
- 7435 FG8AH Pointe-a-Pitre, Guadeloupe. "Radio Guadeloupe," Box 125. (6-7:30 pm).
- 7500 EAJ43 Santa Cruz de Tenerife, Canaries. Relays "Radio Nacional de Burgos." (8-9 am).
- 7510 JVP Tokyo, Japan. 50 kw. See "Tokyo" at end of list.
- 7797 HBP Geneva, Switzerland. "Radio Nations." (Sat, 5:30-6:30 pm).
- 7894 YSD San Salvador. Relays YSS, "Alma Cuscatleca," Director General de Telegrafos, Telefonos, y Radio Nacionales.
- 8650 HJ4DAU Medellin, Colombia. 250 w. Universidad Antioquia.
- 8664 COJK Camaguey, Cuba. 1 kw. 11:30 am-12:30 pm; 8-10 pm. (Reported on 8660 and 8680). Relays CMJK, "Radio Zenith," Jones Castillon y Cie., Finlay #3.
- 8700 COCO Havana, Cuba. 1 kw. Relays CMCK, Luis Casas Romero, Aptdo 98.
- 8820 HCJB Quito, Ecuador. 1 kw. "La Voz de los Andes," Clarence
- 8830 COCQ Havana, Cuba. 1 kw. Relays CMQ, "De La RCA-Victor," Calle 25 No. 225. (Reported on 8850).
- 9030 COBZ Havana, Cuba. 250 w. Relays CMBZ, "Radio Salas," Aptdo. 866. Opens, nightingales and canaries; interval, 4 chimes; closes, national anthem. (6:45 am-1 am).
- 9100 COBX Havana, Cuba. Relays CMBX. Alberto Alvarez, San Miguel 194.
- 9125 HAT4 Budapest, Hungary. 20 kw. Sun, Wed, 7-8 pm; Sat, 6-7 pm. Radiolabor, Kiserlet Allomasa, Gyali-ut 22, Budapest IX.
- 9125 HC2CW Guayaquil, Ecuador. "Ondas del Pacifico," Aptdo 1166.
- 9163 HC1GQ Quito, Ecuador. "Radiodifusora Nariz del Diablo," Sign off, "Blue Danube Waltz," Guayaquil & Quito R. R. Co., Aptdo. 159. (8:30-11 pm).
- 9234 Bucuresti, Romania. 2 kw. "Radio Experimental," Societatea Romana de Radiodifuziune, Str. Gral. Berthelot 60.
- 9290 HI2G Trujillo, D. R. 200 w. Relays HIG. Andres Cordero Puello.
- 9295 XTC Shanghai, China. (8-9 am).
- 9350 HS8PJ Bangkok, Thailand (formerly "Siam"). Post and Telegraph Dept.
- Fort de France, Martinique. "Radio Fort de France."
- 9363 COBC Havana, Cuba. Relays CMBC, "El Progreso Cubano," Aptdo 132. (6:55 am-midnight). (Reported on 10000).
- 9400 Saigon, Fr. Indo-China. 10 w. "Radio Michel-Robert," (Weekdays, 7-8:30 am).
- 9415 PJC2 Willemstad, Curacao. "Radio Curom," Emmastad.
- 9415 PLV Bandoeng, Java, N.E.I. 80 kw. Governments Radio-Dienst.
- 9437 COCH Havana, Cuba. 5 kw. Cadena Azul de Radio, Prado 63. (Sun, 8 am-10 pm; other days, 8 am-midnight).
- 9465 TAP Ankara, Turkey. 20 kw. 11:30 am-5 pm. See "Ankara."
- 9500 KZIB Manila, P. I. I Beck, Inc., (4-10 am; 6 pm-12:30 am).
- 9500 OFD Lahti, Finland. 1 kw. See "Lahti." (Weekdays, 5-6:30 am; 10 am-5 pm.)

- 9500 PRF5 Rio de Janeiro, D. F., Brazil. 12 kw. "A Vox do Brasil." Cia. Radio Internacional do Brasil, Marapicu, D. F. (4:45-5:45 pm).
- XEWVV Mexico City, D. F. 10 kw. 8:55 am-midnight. "La Voz de la America Latina desde Mexico." Aptdo. 2516. Relays XEW. Cadena Radio-difusora Mexicana.
- XGOY Lungtso, China.
- 9503 XEXA Mexico City, D. F. 100 w. (until 1 am).
- 9510 CXA8 Colonia, Uruguay. 2500 w. Relays LR3. "Real de San Carlos." (6 am-10 pm).
- 9510 GSB London, Gt. Britain. 20 kw. "B for Broadcasting." See "London." (1:30-3:50 am; 6:20-9:15 pm; 9:40-11:30 pm).
- HS8PJ Bangkok, Thailand (formerly "Siam"). Opening and interval signals, 3 ascending chimes. Post and Telegraph Dept., Col. Phra Aram.
- VK3ME Melbourne, Australia. 5 kw. Weekdays, 4-7 am. Amalgamated Wireless, (A/sia), Ltd., 167 King St.
- 9520 OZF Copenhagen, Denmark. 6 kw. 2-6 pm; 10-11 pm. Stata-radiofonica, Heibergsgade 7.
- XEDQ Guadalajara, Jal. 100 w. "Hablando a los Continentes desde Guadalajara." Relays XED, Aptdo. 197. Interval, 4 chimes; sign off, "Jarabe Tapatio."
- 9523 ZRG Pretoria, Union of So. Africa. 5 kw. See "Johannesburg." (Sat, 5-7 am; 9:30 am-4:45 pm; 11:45 pm-12:50 am; Sun, 5:30-7 am; 8:30 am-noon; 12:15-3:15 pm; Other days, 5-7 am; 9:30 am-3:30 pm; 11:45 pm-12:50 am).
- 9524 Luxembourg. "Radio Luxembourg." (11 am-1 pm).
- 9525 ZBW3 Hong Kong. 2500 w. Hong Kong Broadcasting Committee, Box 200.
- 9530 KGEI San Francisco, Calif. 20 kw. See "KGEI." (3-9 am).
- 9530 LKC Oslo, Norway. 5 kw. See "Oslo."
- VUC2 Calcutta, India. 10 kw. 2:30-4:30 am. All-India Radio.
- WGEO Schenectady, N. Y. 40 kw See "WGEA."
- 9535 JZI Tokyo, Japan. 20 kw. See "Tokyo." (4:40-5:30 pm).
- Bern, Switzerland. 25 kw. See "Bern."
- 9536 VPD2 Suva, Fiji. 2 kw. Amalgamated Wireless, (A/sia), Ltd. (5:30-7 am).
- 9540 DJN Berlin, Germany. 50 kw. (12:05-2:30 am; 4:50-10:50 pm). See "Berlin" at end of list.
- 9544 HH2S Port-au-Prince, Haiti. Societe Haitienne de Radio-diffusion, Boite Postal 103.
- 9550 HVJ Vatican City. 15 kw. Wed, 2:30-3 pm; Sun, 5-5:30 am. See HVJ.
- TPB11 Paris, France. 25 kw 11:15 pm-6 pm. See "Paris" at end of list.
- VUB2 Bombay, India. 10 kw. 12:30-4 am; 5-7:30 am; 10-11 pm. All India Radio.
- WGEA Schenectady, N. Y. 25 kw. See "WGEA."
- 9560 DJA Berlin, Germany. 50 kw. See "Berlin." (6:30-10:30 pm).
- 9562 OAX4T Lima, Peru. 10 kw. "Radio Nacional." Relays OAX4A. (Reported on 9560). Peruvian Gov't., Av. Petit Thouars 447. (7-8 am; 11:30 am-1:30 pm).
- 9570 KZRM Manila, Philippines. 5 kw. "Radio Manila," Far Eastern Brdcastg. Co., Insular Life Bldg. (4-10:30 am; 4:30-7 pm; 11 pm-12:30 am).
- 9570 WBOS Springfield, Mass. 10 kw. Relays NBC-WBZ-WBZA. Westinghouse Electric & Mfg. Co.
- WPIT Pittsburgh, Pa. 40 kw. See "WPIT."
- 9580 GSC London, Gt. Britain. 20 kw. "C for Corporation." See "London." (1:30-4 pm; 4:20-6 pm; 6:25-9:20 pm; 9:40-11:30 pm).
- VLR Melbourne, Vic., Australia. 2000 w. 3:15-9:45 am. See VLR.
- 9585 KZEH Manila, Philippines. Box 119.
- 9590 HP5J Panama City, Panama. 1 kw. (Reported on 9610). 6:30-11 pm. "La Vox de Panama." Apartado 867.
- PCJ Huizen, Netherlands. 60 kw. See "Hilversum." (Sun, 1:40-3 pm; 7:15-9:50 pm; Tu, 1:45-3:30 pm; 7-10:15 pm; W, 7:15-8:40 pm; F, 8-9 pm).
- VK2ME Sydney, Australia. 20 kw. Sun, 1-3 am; 5-11 am. Signature, laughing notes of kookaburra. Amalgamated Wireless, (A/sia), Ltd., 47 York St. (Sun, midn't-2 am; 4:30-8:30 am; 11:30 am-1:30 pm).
- VK6ME Perth, Australia. 5 kw. Weekdays, 6-8 am. Amalgamated Wireless, (A/sia), Ltd.
- VUD2 Delhi, India. 10 kw. 2-4:15 am; 8 am-1 pm; 10 pm-midnight. All-India Radio.
- VUD3 Delhi, India. 5 kw. 8 am-1 pm. All-India Radio.
- 9590 WCAB Philadelphia, Pa. 10 kw. See "WCAB." (M, Th, Sat, 6:30 pm-2 am; Wed, 9 pm-2 am). Cincinnati, Ohio. 10 kw. See "WLWO."
- WLWO Cincinnati, Ohio. 10 kw. See "WLWO."
- 9595 HBL Geneva, Switzerland. 20 kw. "Radio Nations."
- 9600 CB960 Santiago de Chile. (6 pm).
- 9600 XEYU Mexico City, D. F. (9-11 pm).
- 9606 ZRL Capetown, Union of So. Africa, 5 kw. See "Johannesburg." (Sun, 3:30-4:30 am (or 4-5 am); 5:30-7 am; 9-11:45 am; noon-3 pm; Weekdays, 3:20-7:20 am; 9-11:45 am; noon-4 pm; 11:45 pm-12:50 pm).

- 9615 TIPG San Jose, C. Rica. 2 kw. "La Voz de la Victor," Claudia Martinez. (Reported on 9610). (7 am-11:30 pm; English hour Wed, Sat, 9-10 pm).
- 9616 HJ1ABP Cartagena, Colombia. 608 w. 4:30-10:30 pm. "Radio Cartagena," Aptado 37.
- 9620 HAD Budapest, Hungary. (6-9 pm).
- 9630 HJ7GAD Bucaramanga, Colombia. 650 w. Relays HJ7GAE. "Radio Bucaramanga."
- 9630 I2RO3 Rome, Italy. 100 kw. See "Rome." (12:07-12:56 pm; 1:01-2:55 pm; 5:30-9 pm).
- 9645 HH3W Port-au-Prince, Haiti. 30 w. 1-2 and 7-8 pm. C. Ricardo Widmaier, Box A-117.
- 9645 JLT2 Tokyo, Japan. See "Tokyo." (8-8:30 pm).
- 9650 IABA Addis Ababa, Ethiopia. 1 kw. E. I. A. R. (Sun, 3:30-3:55 am).
- 9650 WCBX New York, N. Y. 10 kw. See "WCBX." (10:30-11:30 pm).
- 9660 CR6AA Lobito, Angola.
HVJ Vatican City. 15 kw. Wed, 2:30-3 pm; Sun, 5-5:30 am. See HVJ.
- 9670 I2RO9 Rome, Italy. 100 kw. See "Rome." (12:40-5:30 pm; 6-6:30 pm).
- 9675 DJX Berlin, Germany. 10:35 am-4:25 pm. See "Berlin" at end of list.
- 9685 TGWA Guatemala City, Guat. 10 kw. See "TGWA." (Sun, 7 pm-midnight; Weekdays, 7:30 pm-12:15 am).
- 9690 HMF Baghdad, Iraq. Qasr-El-Lahoor Brdcstg. Station. (3 pm).
- 9692 TI4NRH Heredia, Costa Rica. 750 w. Sun, 7-8 am; Tu, Th, Sat, 9-10 pm. Amando Cespedes Marin, Apartado 40.
- 9700 "Radio Martinique," Fort de France, Martinique 1500 w. 1:15-2:45 pm; 6-10 pm. Sign off with Marseillaise. Poste Seri. Boite 136.
- 9730 CB970 Valparaiso, Chile. (Reported on 9710). 6:30-11 pm.
- 9735 CSW7 Lisbon, Portugal. (8 pm).
- 9755 ZRO Durban, Union of So. Africa. 200 w. See "Johannesburg." (Sat, 3:30-7:30 am; 9-11:15 am; 11:20 am-4 pm; Sun, 5:30-7 am; 9-11:15 am; 11:20 am-3:20 pm; Other days, 3:30-7:30 am; 9-11:15 am; 11:20 am-3:45 pm).
- 9835 IRF Rome, Italy. 20 kw. See "Rome." (5:20-5:40 am; noon-12:25 pm; 12:40-1 pm; 1:50-2:30 pm; 6-9 pm).
- 9860 EAO Madrid, Spain.
- 9925 JDY Dairen, Kwantung. 10 kw. 7-8 am. Manchuria Telephone and Telegraph Co.
- 9985 COCM Havana, Cuba. 1 kw. Relays CMC, "Trans Radio Columbia," 23 No. 1113, Vedado.
- 10220 PSH Rio de Janeiro, Brazil. 12 kw. Relays PRF4; signs off with Brazilian National Hymn. Cia. Radio Internacional do Brasil, Caixa Postal 709. (Weekdays, 6-7 pm; M, 8-8:30 pm; F, 7-7:30 pm).
- 10330 ORK Brussels, Belgium. 11 kw. 1:30-3 pm.
- 10660 JVN Tokyo, Japan.
- 10740 JVM Tokyo, Japan.
- 11402 HBO Geneva, Switzerland. "Radio Nations." Sun, 7-7:45 pm.
- 11660 JVL Tokyo, Japan.
- 11673 IQY Rome, Italy. See "Rome." (5:20-5:40 am; 12:07-12:56 pm; 1:50-2:30 pm).
- 11700 HP5A Panama City, 300 w. Sun, 9 am-1 pm; 6-10 pm. Weekdays, 11:45 am-1 pm; 6-10 pm. "Radio Teatro Estrella de Panama." Sign off with "Anvil Chorus." Radio Teatro, Aptdo. 954.
- 11705 JLG3 Tokyo, Japan. See "Tokyo." (8-8:30 pm).
- 11705 SBP Stockholm, Sweden. 500 w. Sun, 1:15-4:15 pm; Wed, Sat, 8-9 pm; Daily 1-4:15 pm. Telegrafverket Tjanstebrev 5.
- 11718 CR7BH Lourenco Marques, Port. E. Agric. 200 w. Radio Club de Mocambique, Caixa 594. (Sun, 5-7 am; 10 am-12 pm; Weekdays, midn't-1 am; 4:30-6:30 am; 9:30-11 am; noon-4 pm).
- 11718 TPB6 Paris, France. 7-9:15 pm. See "Paris."
- TPA4 Paris, France. 7-9:15 pm; 9:30 pm-midnight. See "Paris."
- 11720 CJRX Winnipeg, Man. 2 kw. James Richardson & Sons, 157 Royal Alexandra Hotel.
- 11721 ZP14 Villarrica, Paraguay. "Radio Cultura." (7:07-9:07 pm).
- 11730 PHI Huizen Netherlands. 23.6 kw. See Hilversum.
- WSLA Boston, Mass. 20 kw. See "WSLA."
- 11730 WSLR Boston, Mass. 20 kw. See "WSLA."
- 11735 LKQ Oslo, Norway. 5 kw. See "Oslo." (11 am-2 pm).
- 11740 HVJ Vatican City. 15 kw. Tues, 8:30-9 am. See HVJ.
- 11750 GSD London, Gt. Britain. 20 kw. "D For Daventry." See "London." (1:30-3:50 am; 12:35-4 pm; 4:20-6 pm; 6:20-9:15 pm; 9:40-11:30 pm).
- 11753 COCX Havana, Cuba. Relays CMX, "Casa Lavin," Box 32. Sun 6-9 pm; weekdays 8 am-midnight).
- 11760 TGWA Guatemala City, Guat. 10 kw. Sun, 12:45-5:15 pm; Weekdays, 12:45-1:45 pm. See TGWA.

- 11770 DJD Berlin, Germany. 50 kw. 11:30 am-4:30 pm; 4:50-10:50 pm. See "Berlin."
- 11770 MTCY Hsingking, Manchukuo. Strasbourg." (10-11:30 pm).
- 11776 ... "Radio Luxembourg." Cie. Luxembourgoise de Radiodiffusion, (1 hour daily, same hour for three days then advanced an hour for next 3-day period).
- 11780 HP5G Panama City, Pan. 750 w. "Ron Dalley." Opens, closes, with Prelude from "Traviata." Salvador Graziani, Box 1121. (6-10 pm).
- 11780 Saigon, Fr. Indo-China. "Radio Saigon." (6 am).
- 11790 WSLA Boston, Mass. 20 kw. See "WSLA."
- 11800 JZJ Tokyo, Japan. 50 kw. See "Tokyo." (7-9:30 am; 2:30-4 pm).
- 11801 DJZ Vienna, Germany. 50 kw. See "Berlin." (4:50-10:50 pm).
- 11810 I2RO4 Rome, Italy. 100 kw. See "Rome." (4:30-4:55 am; 5-7:25 am; 7:30-8:45 am; 10 am-3 pm; 6-9 pm).
- 11820 GSN London, Gt. Britain.
- 11830 WCBI Chicago, Ill. 500 w. See "WCBI."
- 11830 WCBX New York, N. Y. 10 kw. See "WCBX." (Sun, 3-6 pm; Daily exc. Sun, 4-6 pm; Daily 6:30-10 pm).
- 11840 KZRM Manila, Philippines. Erlanger & Gallinger, Inc., David St.
- 11840 OLR4A Prague, Bohemia. 35 kw. "Radio Podebrady." (M, Tu, W, Th, F, 8-10:30 am; Sun, 7:15-9:55 pm).
- 11850 HAD Budapest, Hungary. (2-6 pm).
- 11870 VUM2 Madras, India 10 kw. 4-4:30 am. All-India Radio.
- 11870 WPIT Pittsburgh, Pa. 40 kw. See "WPIT." (2-11 pm).
- 11870 ... Strasbourg, France. "Radio Melbourne, Australia. 1-3 am. See VLR.
- 11885 TPA3 Paris, France. 25 kw. 2-5 am; 11:15 am-6 pm. See "Paris."
- TPB7 Paris, France. 25 kw. 9:30 pm-midnight. See "Paris."
- 11900 I2RO13 Rome, Italy. 100 kw. See 2RO.
- 11900 XGOY Chungking, China. Central Brdcstg. Station. (5:30-10:30 am; 11-11:30 am; 4-6:30 pm).
- 11900 XMHA Shanghai, China. 445 Racecourse Road. (Reported on 11840 and 11857). (6 am).
- 11900 Hanoi, Fr. Indo-China. "Radio Hanoi II." 20 rue de la Pepiniere. (Sat, 8:30-10:30 pm; Sun, 12:01-9:30 am; Other days, 12:01-2:30 am; 6-9:30 am).
- 11930 PPH Rio de Janeiro, Brazil. (5:30 am).
- 11960 HI2X Trujillo, D. R. 900 w. Relays HIX. J. R. Saladin, Gobierno Dominicano. (Sun, 7:40-10:40 am).
- 12230 COCE Havana, Cuba. "La Voz del Transporte." Prado 18. (8 am-midn't.)
- 12235 TFF Reykjavik, Iceland. 7500 w. Sun, 1:45-2:30 pm Icelandic State Broadcasting Service, Box 547.
- 12460 HCJB Quito, Ecuador. (Reported on 12450). Clarence W. Jones, Casilla 691. (Daily exc. Mon, 10-11 pm).
- 13900 YN3DG Leon, Nicaragua. (Verifies for 10c). (Sat, Sun, 10 pm).
- 14125 YV9AB In Venezuela on Guiana-Brazil Border. Expedition de la Gran Sabana, Ministerio de Fomento, Caracas.
- 14795 IQA Rome, Italy. See "Rome." (4:30-4:55 am).
- 14935 PSE Rio de Janeiro, Brazil. W, 4-4:10 pm; Th, Sat, 3-3:30 pm).
- 15110 DJL Berlin, Germany. 50 kw. 12:05-2 am; 8-9 am; 10:35 am-4:25 pm. See "Berlin."
- 15120 HVJ Vatican City. 15 kw. Tues, 10:30-11 am; Sun, 1-1:30 pm. See HVJ.
- 15130 TPB11 Paris, France. 25 kw. 2-5 am. See "Paris."
- WSLA Boston, Mass. 20 kw. See "WSLA."
- 15130 WSLR Boston, Mass. 20 kw. See "WSLA."
- 15140 GSF London, Gt. Britain. 15 kw. "F For Fortune." See "London." (5:45-8:50 am; 9 am-moon; 4:20-6 pm; 6:20-9:15 pm).
- 15160 JZK Tokyo, Japan. 50 kw. See "Tokyo." (Midnight-1:30 am; 7-9:30 am; 2:30-4 pm).
- VUD3 Delhi, India. 5 kw. 2-4:15 am; 10 pm-midnight. All-India Radio.
- XEWW Mexico City, D. F. 10 kw. "La Voz de la America Latina desde Mexico." Aptdo. 2516.
- 15170 LKV Oslo, Norway. 5 kw. See Oslo.
- 15170 TGWA Guatemala City, Guat. 10 kw. See "TGWA." (Sun, 12:01-1 am; 10:30 am-5:15 pm; Weekdays, 7:45-9 am; 12:45-3:45 pm).
- 15180 GSO London, Gt. Britain. "O For Ocean." See "London." (4:20-6 pm; 6:25-9:20 pm).
- 15195 TAQ Ankara, Turkey. 20 kw. Turkish Brdcstg. System. Daily 5:30-7 am.
- 15200 DJB Berlin, Germany. 8 kw. See "Berlin." (5-11 am; 4:50-10:50 pm; Sun, 11:10 am-12:25 pm).
- 15210 WPIT Pittsburgh, Pa. 40 kw. See "WPIT." (9 am-2 pm).
- 15220 PCJ2 Hilversum, Netherlanda. 60 kw. See "Hilversum." (Sun, 7:40-9:05 am; M, Th, 7:40-8 am; Tu, 1-2:30 am; W, 9:30-11:30 am; Tu, W, F, Sat, 7:40-8:45 am).

- 15240 CR7BD Lourenco Marques, Mozambique. Radio Club de Mocambique, Box 594. (Sun, 5-7 am; 10 am-2 pm; Other days, midn't-1 am; 4:30-6:30 am; 9:30-11 am; noon-4 pm).
- 15243 TPA2 Paris, France. 25 kw. 6-11 am. See "Paris."
- 15260 GSI London, Gt. Britain. "I For Island." See "London." (1:30 am-3:50 am; 12:25-4 pm).
- 15270 WCBX New York, N. Y. 10 kw. See "WCBX." (Sun, 1-2:30 pm; Other days, 1-3:30 pm).
- 15280 DJQ Berlin, Germany. 50 kw. Daily, 12:05-11 am; 4:50-10:50 pm. See "Berlin."
- 15280 HI3X Trujillo, D. R. 900 w. (Reported on 17400). Relays HIX. Secretaria de Comunicaciones y Obras Publicas. (Tu, F, 8:10-10:10 pm; Sun, 7:40-9:40 pm).
- LRU Buenos Aires, Argentina. 5 kw. 8 am-1 am. "Radio El Mundo," Calle Maipu 555.
- 15300 I2RO6 Rome, Italy. 100 kw. See "Rome." (4:10-4:55 am; 10 am-12:06 pm; 1:40-2:30 pm; 3-5:30 pm; 7:30-9 pm).
- 15300 LY24 Kaunas, Lithuania. (Reported on 15130). (Sun, 1 pm).
- 15310 GSP London, Gt. Britain. "P For Progress." See "London." (12:17-1:15 pm; 1:15-4 pm; 4:20-6 pm).
- 15330 KGEI San Francisco, Calif. 20 kw. See "KGEI." (1-4 am; 5-8 am; 12:30-8 pm).
- 15340 DJR Berlin, Germany. 50 kw. See "Berlin." (4:55-10:50 pm).
- 15410 Bucuresti, Romania. 50 kw. "Radio Bucuresti." (9-10:15 pm).
- 17760 DJE Berlin, Germany. 50 kw. See "Berlin." (12:05-5:50 am; 6-7:45 am; 8-11 am; 11:10 am-12:25 pm; 4:55-9 pm).
- 17770 PHI2 Huizen, Netherlands. 23.6 kw. See "Nilversum." (Sun, 6:40-10:05 am; M, Th, 7:40-9 am; Tu, W, F, Sat, 7:40-8:45 am).
- 17785 JZL Tokyo, Japan. See "Tokyo." (4:30-5:30 pm; 8-8:30 pm).
- 17790 GSG London, Gt. Britain. 5:45-8:50 am; 9 am-noon; 12:20-4 pm. See "London."
- 17800 TGWA Guatemala City, Guat. 10 kw. See "TGWA."
- 17810 GSV London, Gt. Britain. 5:45-8:50 am; 12:20-4 pm. See "London."
- 17840 HVJ Vatican City. 15 kw. See HVJ.
- 21470 GSH London, Gt. Britain. 5:45-8:50 am; 9 am-noon. See "London."
- 21520 WCAB Philadelphia, Pa. 10 kw. See "WCAB." (Noon-6 pm).
- 21530 GSJ London, Gt. Britain. 5:45-8:50 am. See "London."
- 21540 WPIT Pittsburgh, Pa. 40 kw. See "WPIT." (5:30-9 am).
- 21565 DJJ Berlin, Germany. 6-7:50 am. See "Berlin."
- 21570 WCBX New York, N. Y. 10 kw. See "WCBX." (8 am-12:30 pm).
- 21680 HAD Budapest, Hungary. (11 am-2 pm).

Addresses

Ankara—Radio Ankara." Ann: Turkish, Eng, Fr, Ger. Sign off, National anthem. Turkish Brdcstg. System, Correspondence Dept.

Berlin—These transmitters are located at Zeesen, near Berlin. Interval signal is the tune, repeated several times, "Ever Be True and Honest," and sign off theme, two national anthems, "Horst Wessel Lied" and "Deutschlandlied". Address is Reichs-Rundfunk G. m. b. H., Haus des Rundfunk, Masurenallee, Berlin-Charlottenberg 9.

Hilversum—Transmitters at Huizen. PCJ is "The Happy Station." Announcements in Dutch, German, French, English, Spanish, Portuguese. Sign off with National Anthem. N. V. Philips' Radio, Eindhoven.

Johannesburg—All programs originate in J/B. Announce "Johannesburg Calling." English and Afrikaans. Open with bugle call. South African Broadcasting Corp., Box 4559, Johannesburg.

London—Transmitters are at Daventry. Interval signals are Bow Bells; Greenwich time signal on even hours; and, irregularly, Big Ben, preceded by Westminster Chimes, strikes the hours. Sign off with "God Save The King." British Broadcasting Corp., London W1.

Oslo—Norsk Rikskringkasting, Shortingsgaten 28, Oslo, Norway.

Paris—Transmitters at Essarts-le-Roi. Announce as "ParisMondial." (Paris Embracing The World), and sign off with "La Marseillaise." Minister of Posts; Telegraphs and Telephones, 98 bis Blvd. Haussmann.

Rome—"Radio Roma-Napoli." Transmitter at Prato-Smeraldo. Interval signal, chirping of bird. Announcements usually by a lady. Sign off with 2 anthems, "Giovinezza" and "Marcia Reale." Ente Italiano per le Audizioni Radiofoniche, Via Montello 5.

Tokyo—Transmitters are at Nazaki. Sign off with national anthem, "Kimagayo." Nippon Hoso Kyokai, 2-Chome, Uchisaiwaicho, Kojimachi-ku.

HVJ—Announcements in Dutch, Italian, Polish, English, German, French, Spanish, Russian. A clock or metronome ticks seconds during 5 minutes preceding broadcasts. Bells of St. Peters strike hour. Open and close with Laudetur Jesus Christus." Pontifica Accademia Della Scienze, Roma-Castina Pio IV.

KGFI—Transmitter at Treasure Island. General Elec. Co., 235 Montgomery St., San Francisco, Calif.

TGWA—Radiodifusora Nacional, "La Voz de Guatemala." Relay TGW. Return postage is not necessary for verifications.

VLK—Transmitter at Lyndhurst. Australian Broadcasting Commission (Victorian Division), P. O. Box 1686, GPO, Melbourne, Vic., Australia.

WCAI—Trans. at Newtown Square. Relays CBS-WCAU. WCAU Brdestg. Co., 1622 Chestnut St., Philadelphia, Pa.

WCBI—"The Voice of Labor." Transmitter, York Township. Relays NBC-WCFL. Sign off in English, French, German, Norwegian, Polish, Russian and Spanish. Chicago Federation of Labor, 666 Lake Shore Drive, Chicago, Ill.

WCBX—Transmitter at Wayne Twp., N. J. Relays CBS-WABC. Sign off, "Star Spangled Banner." Columbia Broadcasting Sys., 485 Madison Ave., New York City.

WGEA—Transmitter at South Schenectady. Relays NBC-WGY. Programs commence with discharge of man-made lightning. General Elec. Co., 1 River Road.

WLWO—Transmitter at Mason. Relays St. Cincinnati, Ohio.

NBC-WLW, Crosley Corp., 1320 Arlington

WNBI—Transmitter at Bound Brook, N. J. Relays NBC-WJZ. Sign off with "Star Spangled Banner." NBC Inc., 30 Rockefeller Plaza, New York, N. Y.

WPIT—Transmitter at Saxonburg. Relays NBC-KDKA. Westinghouse Electric & WSLA—"Dedicated to Enlightenment." World Mfg. Co., Grant Bldg., Pittsburgh, Pa. Wide Broadcasting Corp., Educational Director, University Club, Boston, Mass.

(Continued from page 43)

Alton Caldwell, Jr. R1319, Brockton, Mass.)

Italy: Rome No. 1 on 713 kcs. heard for seven minutes on November 12 from 4:42-4:49 p.m. (Art. Parfitt, Cleveland, Ohio)

Norway: Stavenger on 850 kcs. heard in morning from 2-2:07 a.m. with short program in Norwegian which seems to be a news broadcast. They can be identified by music box at sign off. Signal reached R 5. (RL—Worcester, Mass.) Stavenger heard at 2:30 a.m. on November 12 with setting up exercises with R 3-4 signal. (Alton Caldwell, Jr., R1319, Brockton, Mass.)

Hawaii: KGMB on 1320 kcs. at Honolulu can just barely be heard with deep fading. . . . KGU is about an R6 on Sundays at 3 a.m. . . . KHBC at Hilo on 1400 kcs. is the loudest of all, with an R 7-8 signal. (Jack Welsh, R790, Kingston, Ill.)

KGU in Honolulu on 750 kcs. is being heard very well now. (Art Parfitt, Cleveland, Ohio)

Newe Znladaa

New Zealand: 2YC on 840 kcs. at Wellington heard with peak at R4. . . . 4YA at Dunedin on 790 kcs. heard with a signal of R4 at peaks. . . . 1YA at Auckland on 650 kcs. with a R 7-8 on peaks. This for me, is the loudest of the New Zealand stations. (Jack Welsh, Kingston, Ill.)

Australia: New stations: 4QS at Dalby on 760 kcs. with 10000 watts, 2LT at Litgow on 1080 kcs. with 200 watts, 6TZ on 1340 kcs. at Dardanup with 500 watts, and 7DY on 1390 kcs. in Tasmania with 200 watts. Other changes: 7ZL from 630-600 kcs., 3AR from 10000-4500 watts, 2DU from 100-200 watts 7QT from 300-500 watts, 5CL from 4000-6500 watts, 2BL from 3000-10000 watts, 5RM from 850-810 kcs., 2GB from 10001-2000 watts, 2XL from 880-950 kcs., 3ZR from 1000-2000 watts, 3BO from 300-500 watts, 1ZB from 1070-1090 kcs., 4ZB from 1220-1280 kcs., and 7UV from 1460-1250 kcs. These are changes which have taken place since the latest world list in September RADEX. (From New Zealand Radiogram)

A subscription to RADEX will not only save you money, but will insure regular delivery of your magazine direct to your home each month. Use the subscription blank on page 96.



A cleverly executed QSL card from W1AKY in E. Braintree, Mass. (Courtesy of Weston Richards).

The WORLD'S Radio Stations

(Continued From December Issue)

A complete listing of the radio stations of
the world, from 500 kcs to 500,000 kcs.

The addresses and broadcasting schedules of the shortwave broadcasting stations are not shown in this list. Readers are referred to The Shortwave Broadcasting Station List for this information.

4320	GOB	T	....	Rugby, Gt. Britain. GPO, Armour House, St. Martin's Le Grand, London EC1.
4340	VEF	G	....	Aklavik, N.W.T. Dept. of Nat'l. Defense, Dominion Gov't.
4348	CGA9	CHT	....	Drummondville, P. Q. Canadian Marconi Co.
4355	CIA	T	....	Barrie, Ont. Dept. of Nat'l. Defense, Dominion Gov't.
	CZ9X	FA	....	Carcross, Y. T. Northern Airways, Ltd.
	IAC	E	....	Pisa, Italy. Radio di Coltano Centro
	VEF	G	....	Aklavik, N. W. T. Same as CIA.
	VFN	FA	....	Montreal, P. Q. Dominion Skyways, Ltd.
4356	CY5D	C	....	Cambridge Bay, N.W.T. Hudson's Bay Co.
	CZ4T	T	....	Cape Dorset, Baffin Land, N.W.T. Same as CY5D.
	CZ4Y	T	....	Cape Smith, N.W.T. Same as CY5D.
	CZ5H	C	....	Arctic Bay, Admiralty Inlet, N.W.T. Same as CY5D.
4390	NAA	G	....	Arlington, Va. Navy Time Signals
	NSS	G	....	Arlington, Va. Navy Time Signals
4400	CPP9	C	....	Viacha, Bolivia
4415	ZMBJ	S	300	T.S.S. "Awatea." Union Steam Ship Co. of New Zealand, Ltd.
4422½	W10XKG	E2	75	Tow Boat "Alex Mackenzie," Radiomarine Corp. of America.
4436	VDO	T	400	Vancouver, B. C. North-West Telephone Co., 768 Seymour St.,
4465	CFA2	C	....	Drummondville, P. Q. Can. Marconi Co., Box 1690, Montreal, P. Q.
4490	CZ2T	T	....	Cedar Bay, P. Q. Consolidated Chibougamau Goldfields, Ltd.
4495	CZ2B	T	....	Bridge River, B. C. North-West Telephone Co
4500	CIA	T	....	Barrie, Ont. Dept. of Nat'l Defense, Dominion Gov't.
	CIP8	C	....	Calgary, Alta. Same as CIA.
	CZ5K	FA	....	Shaboygama, P. Q. Dominion Skyways, Ltd.
	VEW	C	....	Calgary, Alta. Same as CIA.
4505	CFW	T	....	Bones Bay, B. C. Canadian Fishing Co., Ltd.
	CZP	T	....	Claydon Bay, B. C. North-West Telephone Co.
4510	CY2L	T	....	Baie Comeau, P. Q. Ont. Paper Co., Ltd.
	CY20	T	....	Chutes oux Outardes, P. Q. Ont. Paper Co.
	CY3E	T	....	Clarke City, P. Q. Gulf Pulp & Paper Co.
4512	ZFS	T	....	Nassau, Bahamas. Supt. of Telegraphs, Central Bay St.
4550	WDN	C	....	Rocky Point, N. Y. RCA Frequency Bureau, 30 Rockefeller Plaza, NYC.
4560	CPQ4	C	....	LaPaz, Bolivia
4600	HC2ET	B	....	Guayaquil, Ecuador.
4610	KBAI	F	....	Ketchikan, T. A. U.S. Department of Agriculture, Forest Service.
	KBE0	F	....	Juneau, T. A. Same as KBAI.
	KBEP	F	....	Juneau, T. A. Same as KBAI.
	KBFM	F	....	Juneau, T. A. Same as KBAI.
	KBFN	F	....	Petersburg, T. A. Same as KBAI.
	KBFO	F	....	Juneau, T. A. Same as KBAI.
	KMYA	F	....	Patrol Boat "Forester." Same as KBAI.
	KMYB	F	....	Patrol Boat "Ranger 10." Same as KBAI.
4617	KYZA	G	....	El Paso, Texas. U. S. Immigration Border Patrol.
	KYZC	G	....	Chula Vista, Calif. Same as KYZA.
	KYZD	G	....	Del Rio, Texas. Same as KYZA.
	KYZE	G	....	El Centro, Calif. Same as KYZA.
	KYZF	G	....	Alpine, Texas. Same as KYZA.
	KYZG	G	....	Tucson, Ariz. Same as KYZA.
	KYZH	G	....	McAllen, Texas. Same as KYZA.
	KYZI	G	....	Laredo, Texas. Same as KYZA.
	KYZJ	G	....	Lynden, Wash. Same as KYZA.
	WWMA	G	....	Detroit, Mich. Same as KYZA.
	WWMB	G	....	Buffalo, N. Y. Same as KYZA.

	WWMD	G	....	Derby Line, Vt. Same as KIZ.
	WWMO	G	....	Ogdensburg, N. Y. Same as KYZA.
	WWMP	G	....	Rousses Point, N. Y. Same as KYZA.
3637 1/2	KAMB	SEM	50	Alhambra, Calif. Southern Calif. Edison Co.
	KODZ	SEM	50	Anaheim, Calif. Same as KAMB.
4650	KAZV	FA	100	Fairbanks, T. A. Harold Gilling
	KBOF	FA	50	Rainy Pass District, T. A. Star Air Lines, Inc., Rhon River Emergency Field.
	KFRA	FA	100	Flat, T. A. Star Air Lines.
	KFRD	FA	100	Candle, T. A. Same as KFRA.
4707	HRT	C	200	Amapala, Honduras. Gobierno de Honduras
4710	HRS	C	100	Roatan, Honduras. Gobierno de Honduras
4730	KGTF	FA	....	Fort Worth, Tex. Aeronautical Radio, Inc.
	KGUA	FA	....	El Paso, Tex. Same as KGTF.
	KGUO	FA	....	Tucson, Ariz. Same as KGTF.
	KGUP	FA	....	Phoenix, Ariz. Same as KGTF.
	KGUR	FA	....	Glendale, Calif. Same as KGTF.
	KGUT	FA	....	Roberston, Mo. Same as KGTF.
	KIOO	FA	....	Oklahoma City, Okla. Same as KGTF.
	KIOT	FA	....	Tulsa, Okla. Same as KGTF.
	WARO	FA	....	Portable. Same as KGTF.
	WNEH	FA	....	So. Washington, Va. Same KGTF.
	WSDC	FA	....	Newark, N. J. Same as KGTF.
	WSDF	FA	....	Louisville, Ky. Same as KGTF.
	WSDG	FA	....	Chicago, Ill. Same as KGTF.
	WSDH	FA	....	Nashville, Tenn. Same as KGTF.
	WSDI	FA	....	Cincinnati, Ohio. Same as KGTF.
	WSDK	FA	....	Memphis, Tenn. Same as KGTF.
	WSDP	FA	....	Port Columbus, Ohio. Same as KGTF.
	WSDQ	FA	....	Berea, Ohio. Same as KGTF.
4740	KBRN	FA	3000	Brownsville, Tex. Aeronautical Radio, Inc.
	WAHY	FA	1000	Memphis, Tenn. Same as KBRN.
	WOET	FA	1000	Charlotte, N. C. Same as KBRN.
	WSJM	FA	400	Tampa, Fla. Same as KBRN.
4742 1/2	KBLC	FA	50	Corpus Christi, Tex. Aeronautical Radio, Inc.
	KBRN	FA	3000	Brownsville, Tex. Same as KBLC.
	WAHY	FA	1000	Memphis, Tenn. Same KLBC.
	WARS	FA	50	Muscle Shoals, Ala. Same as KBLC.
	WEEG	FA	....	Greensboro, N. C. Same as KBLC.
	WEET	FA	....	Jacksonville, Fla. Same as KBLC.
	WEEK	FA	....	Washington, D. C. Same as KBLC.
	WEEL	FA	50	Beaumont, Tex. Same as KBLC.
	WEEP	FA	....	Newark, N. J. Same as KBLC.
	WGSB	FA	50	Greenville, S. C. Same as KBLC.
	WOET	FA	1000	Charlotte, N. C. Same as KBLC.
	WPAE	FA	50	Philadelphia, Pa. Same as KBLC.
	WSJM	FA	400	Tampa, Fla. Same as KBLC.
4745	KBRN	FA	3000	Brownsville, Tex. Aeronautical Radio, Inc.
	WAHY	FA	1000	Memphis, Tenn. Same as KBRN.
	WOET	FA	1000	Charlotte, N. C. Same as KBRN.
	WSJM	FA	400	Tampa, Fla. Same as KBRN.
4753	WOO	T	20000	Ocean Gate, N. J.
4755	CY4A	FA	....	Bousquet, P. Q. General Airways, Ltd.
4770	CY6E	FA	....	Beavertail Lake, Man. Arrow Airways Ltd.
	YV1RT	B	....	Maracaibo, Venezuela.
4775	CJD	F	....	Campbell River, B. C. Minister of Lands for B. C.
	CY2Q	C	....	Atlin, B. C. B. C. Provincial Police
	CZC	P	....	Bralorne, B. C. Same as CY2Q
	CZ4B	F	....	Armstrong, Ont. Ont. Dept. of Lands & Forests
	CZ5F	F	....	Basswood, Ont. Same as CZ4B.
	CZ7A	P	....	Alert Bay, B. C. Same as CY2Q.
4780	HJ7GAB	B	750	Bucaramanga, Colombia.
	YV1RO	B	....	Triujillo, Venezuela.
4785	CZC	P	....	Bralorne, B. C. B. C. Provincial Police
	CY2Q	P	....	Atlin, B. C. Same as CZC.
	CZ7A	P	....	Alert Bay, B. C. Same as CZC.
	HJ1ABB	B	600	Barranquilla, Colombia
4790	YV5RY	B	....	Caracas, Venezuela
4795	HJ3CAF	B	750	Bogota, Colombia
	HJ6FAI	B	501	Ibague, Colombia
4797 1/2	KHRH	RB	100	NC-19904. Howard R. Hughes, NYC.
	KSFM	RB	....	New York City. NBC, Inc. 30 Rockefeller Plaza
	K6XAK	GE	1500	Kaena Point, Oahu, T. H. Globe Wireless, Ltd.
	WNBM	RB	....	New York City. NBC, Inc.
	W4XID	E1	50	W. Palm Beach, Fla. Gray Radio Co.
	W6XCS	GE	50	San Francisco, Calif. Garlynn Eng. Co.
	W6XXT	GE	5000	Portable. Press Wireless, Ltd.
	W6XQW	GE	1600	Palo Alto, Calif. Stanford University

	W7XBA	E	15	Portable. Northern Radio Co.
	W7EFZ	E1	60	Seattle, Wash. Radio Labs. Inc.
	W8XUK	GE	10	Portable. W. Va. Univ. Dept. of Physics.
	WEXUL	GE	10	Portable. Same as W8XUK.
	W9XAM	Time	....	Elgin, Ill. Time signals.
	W10XJJ	GE	25	Portable. Harvey Radio Labs., Inc.
4800	WCBN	RB	....	New York City. CBS, Inc., 485 Madison Ave.
	YV1RV	B	....	Maracibo, Venezuela
4805	HJ6FAB	B	501	Manizales, Colombia.
4810	CYC	T	....	Amos, P. O. Canadian Nat'l. Railway
	YDE2	B	100	Solo, Java, N.E.I. NIROM.
	YV1RU	R	....	Maracaibo, Venezuela
4815	HJ2BAB	B	600	Cucuta, Colombia
4820	GDW	T	....	Rugby, Gt. Britain G.P.O.. Armour House, St. Martin's Le Grand, London EC1.
	YV3RN	B	....	Barquisimeto, Venezuela.
4825	CY6P	FA	....	Channing, Man. Wings, Ltd.
	CZ3B	FA	....	Berens River, Man. Wings, Ltd.
	HJ5EAD	B	720	Calif. Colombia
4830	YV5RH	B	....	Caracas, Venezuela
4835	HJ1ABE	B	525	Cartagena Colombia
4840	CY2L	T	....	Baie Comeau, P. O. Ont. Paper Co., Ltd.
	CY2O	T	....	Chutes aux Outardes, P. O. Same as CY2L.
	CY2T	F	....	Berens River, Man. Dept. of Mines & Resources.
	CY3E	T	....	Clarne City, P. O. Gulf Pulp & Paper Co.
	VUJ2	B	10000	Calcutta, India. All-India Radio
	YV4RX	B	....	Maracay, Venezuela
4845	HJ3CAD	B	720	Bogota, Colombia.
4850	YV1RZ	B	....	Trujillo, Venezuela
4855	VBV6	C	....	Calgary, Atla.
4860	CZ5K	FA	....	Chiboygama, P. O. Dominion Skyways, Ltd.
	CZ5L	FA	....	Mud Lake, Ont. Same as CZ5K.
	CZ5M	FA	....	Rouyn, P. O. Same as CZ5K.
	CZ9J	FA	....	St. Felicien, P. O. Same as CZ5K.
	TGY	C	....	Guatemala City, Guat.
	VOWM	FA	....	Northwest River, Labrador. Newfoundland Skyways, Ltd.
	YV1RL	B	300	Maracaibo, Venezuela
4865	HJ2BAJ	B	751	Santa Marta, Colombia
	VDO	T	400	Vancouver, B. C. North-West Telephone Co., 768 Seymour St.,
4870	CIA	T	....	Barriefield, Ont. Dept. of Nat'l. Defense, Dominion Gov't
	VEW	C	....	Calgary, Atla.
	YV2RN	B	....	San Cristobal, Venezuela
4875	HJ6FAH	B	600	Armenia, Colombia
4878	ZTD	B	....	Durban, Union of S. Africa.
4880	VDQ	T	....	Cedar Bay, P. O. Telephone Centre du Lac St. Jean.
	YUB2	B	10000	Bombay, India.
	YV6RU	B	....	Ciudad Bolivar, Venezuela
4885	HJ4DAP	B	501	Medellin, Colombia
4890	HRK	C	200	Tegucigalpa, Honduras. Gobierno de Hond.
	YV1RX	B	....	Maracaibo, Venezuela
4895	HJ3CAH	B	720	Bogota Colombia
4900	YV6RT	B	....	Ciudad Bolivar, Venezuela
4910	YV1RY	B	....	Coro, Venezuela
4917 1/2	WAZM	FA	40	Madison, Wis. Aeronautical Radio, Inc.
4920	VUM2	B	10000	Madras, India
	YV4RP	B	....	Caracas, Venezuela
4930	KGUP	FA	....	Valencia, Venezuela
4837 1/2	WSDM	FA	....	Phoenix, Ariz. Aeronautical Radio, Inc.
4940	YV5RO	B	....	Albany, N. Y. Same as KGUP.
4947 1/2	KGUP	FA	....	Caracas, Venezuela
	WSDM	FA	....	Phoenix, Ariz. Aeronautical Radio, Inc.
4950	YV4RO	B	....	Albany, N. Y. Same as KGUP.
4952 1/2	KGUP	FA	....	Valencia, Venezuela
	WSDM	FA	....	Phoenix, Ariz. Aeronautical Radio, Inc.
4960	YVUD2	B	10000	Albany, N. Y. Same KGUP.
	YV5RS	B	....	Delhi, Indi.
4967 1/2	KGUP	FA	....	Caracas, Venezuela
	KHAGH	A	50	Phoenix, Ariz. Aeronautical Radio, Inc. NC-14947. Lt. Col. G. H. Hutchinson, Baltimore, Md.
	WSDM	FA	....	Albany, N. Y. Same as KGUP.
4975	GBC	T	5000	Rugby, Gt. Britain.
	YV1RJ	B	....	Coro, Venezuela.
4980	YV5RT	B	....	Caracas, Venezuela
4990	YV3RX	B	....	Barquisimeto, Venezuela
5000	TFL	C	....	Reykjavik, Iceland

Call Sign	Class	Power	Location
WWV	G	....	Beltsville, Md. Standard frequency transmissions. National Bureau of Standards, Washington, D. C.
5010 YV5RK	B	....	Caracas, Venezuela
5020 YV5RM	B	....	Caracas, Venezuela
5025 YV4RO	B	....	Puerto Cabello, Venezuela
5032 1/2 ZFA	T	1500	Hamilton, Bermuda
KAIK	FA	50	Sitka, Alaska. Marine Airways
KAIL	FA	50	Chichagof, T. A. Same as KAIK.
KANH	FA	50	Juneau, T.A. Same as KAIK.
5033 WDI	T	20000	Ocean Gate, N. J. Am. Telephone & Teleg. Co.
5040 YV5RN	B	....	Caracas, Venezuela
5042 1/2 KAZV	FA	100	Fairbanks, T. A. Harold Gillam
KBOF	FA	50	Rainy Pass District, T. A. Star Air Lines, Inc., Rhon River Emergency Field
KFRA	FA	100	Flat, T. A. Star Air Lines, Inc.
KFRD	FA	100	Candle, T. A. Same as KFRA.
5077 WCN	T	80000	Lawrenceville, N. J.
5110 VJI	...	....	Cloncurry, Qsld., Australia. Australian Airways Medical Service
5122 1/2 KRBD	FA	400	Red Bluff, Calif. Aeronautical Radio, Inc.
5130 HRE	C	400	Tegucigalpa, Honduras. Tropical Radio Telegraph Co.
5135 KGHX	ZP	....	Santa Ana, Calif. Orange County
HGHZ	ZP	100	Little Rock, Ark. City of L. R.
HGPI	ZP	500	Beaumont, Tex. (Days only). City of B.
KHPF	ZP	500	Jefferson City, Mo. State of Mo.
KNFE	ZP	500	Duluth, Minn. City of D.
KOHM	ZP	....	Portable, days only. State of Ore., Police & Highway Depts.
WPGO	ZP	....	Columbus, Ohio. State of Ohio
WPHN	ZP	500	Tampa, Fla. (Days only). City of T.
5137 1/2 KADY	T	40	Petersville, Alaska. (Days only). W. N. Cuddy.
KAJX	T	18	Holy Cross, T. A. Catholic Society of Alaska
KAKR	T	25	Candle, T. A. Candle Community Radio Ass.
KATP	T	....	Kako Landing, T. A. ojel S. Ramstad
KBNM	T	25	Platinum, T. A. (Days only). Alaska Traders.
5138 KALY	C	25	Egavik, Alaska. (Only between 6 pm and 6 am, PST). R. B. Julian.
KAMX	C	40	Utopia Creek, T. A. (Days only). L. McGee
KANR	T	20	Kalskag, T. A. (Days only). Fred H. Whitche
KASI	T	20	Allakaket, T. A. (Days only). Sam Dubin
5140 KGHF	ZP	....	Lawton, Okla. City of L.
HGHX	ZP	....	Santa Ana, Calif. Orange County
KGHZ	ZP	100	Little Rock, Ark. City of L. R.
KHPF	ZP	500	Jefferson City, Mo. State of Mo.
KHPG	ZP	200	Kirkwood, Mo. (Days only). State of Mo. Highway Patrol
KGPI	ZP	500	Beaumont, Tex. (Days only). City of B.
KNFE	ZP	500	Duluth, Minn. (Day only). City of D.
KOHM	ZP	....	Portable, days only. State of Ore. Police & Highway Depts.
KQBX	ZP	50	Portable. State of Wash.
WPGG	ZP	300	Findlay, Ohio. State of Ohio
WPGO	ZP	....	Columbus, Ohio. Same as WPGG.
WPHC	ZP	300	Massillon, Ohio. Same as WPGG.
WPHK	ZP	300	Wilmington, Ohio. Same as WPGG.
WPHN	ZP	500	Tampa, Fla. (Only only). City of T.
WPHT	ZP	300	Cambridge, Ohio. Same as WPGG.
WQPI	ZP	250	French Village, Ill. State of Ill.
WQPZ	ZP	19	Portable. State of Ill. Dept. of Public Works and Bldg., Div. of Highways, Bureau of State Highway Maintenance Police.
5145 HRU	C	400	Puerto Castilla, Honduras. Tela Railroad Co.
HRX	C	400	La Lima, Honduras. Same as HRU.
5146 PMY	B	1000	Bandoeng, Java, N.E.I.
5167 1/2 KIBZ	T	....	Waterfall, Alaska. Nakat Packing Corp.
KIOJ	T	5	Stuyahok Landing, T.A. W. R. E. Moore.
KLA	T	....	Waterfall, T.A. Same as KIBZ.
5172 1/2 KFCA	FA	1000	Denver, Colo. Aeronautical Radio Inc.
KRGG	FA	400	Garden City, Kans. Same as KFCA.
KTCW	FA	1000	Wichita, Kans. Same as KFCA.
5195 KGHF	ZP	....	Lawton, Okla. City of L.
HGHX	ZP	....	Santa Ana, Calif. Orange County
HGHZ	ZP	100	Little Rock, Ark. (Days only). City of L. R.
KGPI	ZP	500	Beaumont, Tex. (Days only). City of B.
KHPF	ZP	500	Jefferson City, Mo. (Days only). State of Mo.
KHPG	ZP	200	Kirkwood, Mo. (Days only). State of Mo., Highway Patrol
KNFE	ZP	500	Duluth, Minn. City of D.

	KOHM	ZP	....	Portable, days only. State of Ore., Police & Highway Depts.
	KQBX	ZP	50	Portable. State of Wash.
	WPGG	ZP	300	Findlay, Ohio. State of Ohio.
	WPGQ	ZP	....	Columbus, Ohio. Same as WPGG.
	WPHC	ZP	300	Massillon, Ohio. Same as WPGG.
	WPHK	ZP	300	Wilmington, Ohio. Same as WPGG.
	WPHN	ZP	500	Tampa, Fla. (Days only). City of T.
	WPHT	ZP	300	Cambridge, Ohio. Same as WPGG.
	WQJT	ZP	250	French Village, Ill. State of Ill.
5200	YAH	C	....	Kabul, Afghanistan
5207 1/2	KAEW	T	....	Umnak, Alaska. Territory of Alaska
	KAGN	T	50	Portable. Alaska Aeronautics and Communications Commission
	KAGO	T	10	Portable. Same as KAGN.
	KAJJ	T	....	Atka, T. A. Same as KAEW.
	KAJU	T	....	Attu, T. A. Same as KAEW.
	KAQF	T	....	Unalaska, T. A. Same as KAEW.
	KAXP	T	10	St. Michael, T. A. (Days only). Northern Commercial Co.
	KBML	T	84	Ophir, Esperanto, T. A. Three Miners, Inc.
	KBNM	T	25	Platinum, T. A. (Days only). Alaska Traders.
	KBXO	T	50	Portable. Same as KAGN.
	KEXP	T	50	Portable. Same as KAGN.
5287 1/2	WSEK	G	....	Shennandoah Nat'l. Park, Va. Nat'l Park Service, U.S. Dept. of Interior.
5300	VK8SI	...	....	Wyndham, Australia. Australian Airways Medical Service.
	ZIK3	B	....	Belize, British Honduras
5310	KAFF	FA	50	Sioux Falls, S. Dak. Aeronautical Radio
	KAZV	FA	100	Fairbanks, Alaska. Harold Gillam
	KHCFI	A	30	NC-552-N. Peck & Rice Airways, Bethel, T. A.
	KHCIS	A	30	NC-10795. Star Air Lines.
	KHCRW	A	30	NC-18445 Raymond I. Peterson, Bethel, T. A.
	KNCN	FA	300	Sheridan, Wyo. Same as KAFF.
	WARG	FA	45	Augusta, Ga. Same as KAFF.
5330	HRC2	C	400	Tela, Honduras. Tela R. R. Co.
5342	HRZ	C	500	Guanaja, Honduras. Gobierno de Honduras
5350	HRJ	C	100	Utila, Honduras. Gobierno de Hond.
5360	VK8UB	...	....	Kalgoorlie, W.A., Aust. Australian Airways Medical Service.
5377 1/2	WAZM	FA	40	Madison, Wis. Aeronautical Radio, Inc.
5390	CY3O	FA	....	Charlie Lake, B. C. United Air Transport Ltd.
5410	VK8US	...	....	Alice Springs, S.A., Aust. Australian Airways Medical Service.
5420	HRJ2	C	500	Tegucigalpa, Honduras. Rosario Mining Co.
5440	HRV	C	100	La Ceiba, Honduras. Gobierno de Hond.
5450	HRP	C	500	San Pedro Sula, Honduras. Gobierno de Hond.
5452 1/2	VEF	G	....	Aklavik, N.W.T. Dept. of Nat'l Defense, Dominion Gov't.
				Aklavik, N.W.T. Same as above.
6470	VQA3	....	....	Jessleton, Brit. North Borneo
5480	XTL	....	....	Hankow, China
5485	HDR	FA	14	Toncontin, Honduras. Pan American Airways
5510	PDH	...	....	Abrolhos, Brazil
5520	KHC1Y	A	100	NC-18997. American Export Airlines.
	WBF	CT	....	Hingham, Mass. Tropical Radio Teleg. Co.
5565	WBF	MR	....	Hingham, Mass. Tropical Radio Teleg. Co.
5572 1/2	KAZV	FA	100	Fairbanks, Alaska. Harold Gillam
	KHCKB	A	30	NC-16159. James M. Dodson, Fairbanks, T. A.
	KHCRW	A	30	NC-18445. Raymond Peterson, Bethel, T. A.
	KRBD	FA	400	Red Bluff, Calif. Aeronautical Radio, Inc.
5582 1/2	KNCN	FA	300	Sheridan, Wyo. Aeronautical Radio, Inc.
	KRBD	FA	400	Red Bluff, Calif. Same as KNCN.
	KRCG	FA	400	Garden City, Kans. Same as KNCN.
	KRCW	FA	1000	Wichita, Kans. Same as KNCN.
5590	PWH	...	....	Abrolhos, Brazil
5592 1/2	KRBD	FA	400	Red Bluff, Calif. Aeronautical Radio
5602 1/2	KHCNY	A	20	NC-21107. All American Aviation, Inc., Wilmington, Del.
	KHCQR	A	50	NC-21750. Canadian-Colonial Airways, Inc.
	KHCQS	A	50	NC-21750. Same as KHCQR.
	WSJ	FA	50	Elkins, W. Va. Aeronautical Radio, Inc.
5612 1/2	KHCNY	A	20	NC-21107. All American Aviation, Inc., Wilmington, Del.
	WSDJ	FA	50	Elkins, W. Va. Aeronautical Radio, Inc.
5615	HR1KC	FA	100	LaCeiba, Honduras. T.A.C.A.
	HR2KC	FA	100	San Pedro Sula, Honduras. T.A.C.A.
	HR3KC	FA	100	Toncontin, Honduras. T.A.C.A.
5620	HR13	C	500	Rey del Oro, Juticapla, Honduras. Yoy. Mc Cartney.

	HRI4	C	500	Agua Fria, Honduras. Cia. Mineral de Agua Fria.
5622 1/2	KANG	FA	50	Juneau, Alaska. Alaska Air Transport, Inc.
	KANU	FA	50	Kimshan Cove, T.A. Same as KANG.
	KAXT	FA	30	Sitka, T.A. Same as KANG.
	KAYP	FA	50	Ketchikan, T. A. Same as KANG.
	KAZV	FA	100	Fairbanks, T.A. Harold Gillam
	KBOF	FA	50	Rainy Pass District, T.A. Star Air Lines, Inc., Rhon River Emergency Field.
	KFRA	FA	100	Flat, T.A. Star Air Lines, Inc.
	KFRD	FA	100	Candle, T. A. Same as KFRA.
	KFWC	FA	30	Lizienski Inlet, T.A. Same as KANG.
	KBJW	FA	30	Petersburg, T. A. Same as KANG.
5630	CY4A	FA	...	Bousquet, P. Q. General Airways, Ltd.
5632 1/2	KHCNY	A	20	NC-21107. All American Aviation, Inc., Wilmington (Del.
	KHCOR	A	50	NC-21750. Canadian-Colonial Airways, Inc.
	KHCOS	A	50	NC-21750. Same as KHCOR.
	WSDJ	FA	50	Elkins, W. Va. Aeronautical Radio
5642 1/2	CYG	FA	....	Crabbrook, B. C. Trans Canada Air Lines.
	VFBJ	FA	....	Coleman, B. C. Dept. of Transport.
5660	HRR	C	200	Santa Rosa de Copan, Honduras. Gobierno de Hond.
5652 1/2	KAXO	FA	30	Taku Lodge, Alaska. Alaska Aeronautical and Communications Commission
	KAZV	FA	100	Fairbanks, T.A. Harold Gillam
	KBJW	FA	30	Petersburg, T.A. Alaska Air Transport, Inc.
	KBLC	FA	50	Corpus Christi, Tex. Aeronautical Radio.
	KBOF	FA	50	Rainy Pas District, T.A. Star Air Lines, Rhon River Emergency Field.
	KBRN	FA	3000	Brownsville, Tex. Same as KBLC.
	KFRG	FA	30	Valdez, T.A. Lyle Airways
	KHCFI	A	30	NC-552-N. Peck & Rice Airways, Bethel, T.A.
	KHCIS	A	30	NC-10795. Star Air Lines, Inc.
	KHCNY	A	20	NC-21107. All American Aviation, Wilmington, Del.
	KHCOR	A	50	NC-21750 Canadian-Colonial Airways, Inc.
	KHCOS	A	50	
	KHCRW	A	30	NC-18445. Raymond Peterson, Bethel, T. A.
	WAHY	FA	1000	Memphis, Tenn. Same as KBLC.
	WAHZ	FA	50	Birmingham, Ala. Same as KBLC.
	WARS	FA	50	Muscle Shoals, Ala. Same as KBLC.
	WATE	FA	200	Pensacola, Fla. Same as KBLC.
	WATF	FA	200	Tallahassee, Fla. Same as KBLC.
	WEEL	FA	50	Beaumont, Tex. Same as KBLC.
	WGSA	FA	50	Greenville, S. S. Same as KBLC.
	WPAE	FA	50	Philadelphia, Pa. Same as KBLC.
	WSM	FA	400	Tampa, Fla. Same as KBLC.
5660	HRI	C	100	San Juancito, Honduras. Rosario Mining Co.
5662 1/2	KAZV	FA	100	Fairbanks, Alaska. Harold Gillam
	KBOF	FA	50	Rainy Pass District, T.A. Star Air Lines, Rhon River Emergency Field.
	KFRA	FA	100	Flat, T.A. Star Air Lines, Inc.
	KFRD	FA	100	Candle, T.A. Same as KFRA.
	KRBD	FA	400	Red Bluff, Calif. Aeronautical Radio, Inc.
5670	VOB2	FA	....	Sandakan, Briti, North Borneo
5672.4	VOAC	FA	....	Grand Falls, Newfoundland. Nfid. Airport, Squadron Leader H. A. L. Pattison.
5672 1/2	WAES	FA	....	Syracuse, N. Y. Aeronautical Radio, Inc.
	WAEV	FA	....	Knoxville, Tenn. Same as WAES.
	WARO	FA	1000	Dayton, Ohio. Same as WAES.
	WSDC	FA	....	Newark, N. J. Same as WAES.
	WSDD	FA	....	Boston, Mass. Same as WAES.
	WSDH	FA	....	Nashville, Tenn. Same as WAES.
	WSDI	FA	....	Cincinnati, Ohio. Same as WAES.
	WSDM	FA	....	Albany, N. Y. Same as WAES.
	WSDO	FA	....	Buffalo, N. Y. Same as WAES.
	WSDP	FA	....	Port Columbus, Ohio. Same as WAES.
	WSDQ	FA	....	Berea, Ohio. Same as WAES.
5692	HRD	FA	14	Toncontin, Honduras. Pan American Airways
5692 1/2	KANP	FA	100	Seattle, Wash. Pan American Airways, Inc.
	KBKD	FA	100	Portable. Aeronautical Radio, Inc.
	KHAGH	A	50	NC-14947. Lt. Col. G. R. Hutchinson, Baltimore, Md.
	KIOA	FA	20	Tanana, Alaska. Pacific Alaska Airways, Inc.
	VEPZ	FA	....	Burwash Landing, Y.T. Dominion Gov't.
	WPAF	FA	....	Baltimore, Md. Same as KANP.
5700	CPP2	C	....	Viacha, Bolivia
5705	CFU	T	....	Annabie, B. C. Consolidated Mining & Smelting Co. of Canada, Ltd.

	CZSY	T	....	Anyox, B. C. Same as CFU.
	CZ7H	T	....	Cedar Creek, B. C. Same as CFU.
5707 ½	WAJE	FA	300	Birmingham, Ala. (300 to 600 atts; days only).
	WARG	FA	45	Aeronautical Radio, Inc.
	WEEA	FA	....	Augusta, Ga. Same as WAJE.
	WEEC	FA	....	Atlanta, Ga. Same as WAJE.
5713	TGS	B	200	Charleston, S. S. Same as WAJE.
5730	JVV	T	10000	Guatemala City, Guat.
				Nazaki, Japan. Kokusai Denwa Kaisha, Osaka Bldg., Tokyo.
5735	HC1PM	B	....	Quito, Ecuador
5737 ½	CPO3	C	....	LaPaz, Bolivia
5750	CP2ANB	C	....	Quechisla, Bolivia.
	HRU2	C	400	Puerto Castilla, Honduras Tela R. R. Co.

(To be continued in the next issue)

Explanation of the Third Column Symbols:

A—Aircraft.
 B—Broadcast.
 C—Commercial Telegraph.
 F—Forestry.
 G—Government.
 P—Police.
 S—Ship.
 T—Radio Telephone.
 FA—Aeronautical (ground).
 GEO—Geophysical.
 RC—Circular radiobeacon.
 RD—Directional radiobeacon.
 RG—Direction finding station.
 LH—Lighthouse.
 RR—Radio range station.
 MP—Municipal police.
 SP—State police.
 ZP—Zone police.
 EM—Emergency.

SEM—Special emergency.
 MF—Marine fire.
 MR—Marine Relay.
 PR—Press relay.
 RB—Relay broadcast.
 FAC—Facsimile.
 TV—Television video.
 TA—Television audio.
 NCE—Non-commercial educational.
 CC—Coastal Telegraph.
 CH—Coastal harbor.
 CHC—Coastal harbor telegraph.
 CHT—Coastal harbor telephome.
 E
 E1 } Experimental.
 E2 }
 E3 }
 GE—General Experimental.
 SE—Special Experimental.

All the Mobile and Portable-Mobile police stations installed in police automobiles bear the same call letters as the Fixed police broadcast station to which they report, and in many cases they work on the same frequency. We list herewith the Fixed station, and in parentheses we show the number, and the power of the Portable and Portable-Mobile units attached to that station, as for example:

WRHD MP 250 Louisville, Ky. (2 units-12 w).

NEW YEAR

(Continued From Page 8)

you move the set to a new location, rotate it around its base until it is in a position that gives the loudest signal.

Why are people using A. C.-D. C. sets when D. C. is not available in most places? These are universal sets that work on either alternating or direct current. They were developed to fill a need where direct current is used, or when a set was carried about from place to place and apt to meet up with either kind of current. Many people are buying such sets when there is no need, since they may never encounter direct current. How-

ever, the universal set costs less to build than the A. C. set, and it works very well. The lower cost of these receivers has made them popular with listeners, especially as auxiliary sets.

DX SPECIAL

A special program will be dedicated to the Virginia Chapter of The Radex Club on January 9, from station WOPI, 1500 kcs., Bristol, Tenn. Broadcast during their regular frequency check, the program will be from 4:15 to 4:30 am, EST. All members of The Radex Club are requested to listen in and send their reports to Bob Smith, Chief Engineer of WOPI.

Applications to the FCC

CP—Construction permit.
 mod.—modification.
 lic.—license.
 ltd.—limited time.
 unlt.—unlimited time.
 S. H.—specified hours.
 KDON, Monterey, CP 500(1), 1440 kcs.
 KEEN, Seattle, CP 1370 kcs. to 1420 kcs.
 KERN, Bakersfield, CP 1380 kcs., 1000 w.
 KEX, Portland, CP 1160 kcs. unlt.
 KFBB, Great Falls, mod. of lic. for 900 kcs.,
 5 kw.
 KFIO, Spokane, CP 950 kcs., 1 kw. unlt.
 KFNF, Shenandoah, mod. of CP to move
 to Council Bluffs.
 KFPW, Ft. Smith, CP 1370 kcs.
 KFRU, Columbia, to 1370 kcs., 250 w. unlt.
 KFYO, Lubbock, to 1380 kcs., 500(1).
 KGDM, Stockton, 1530 kcs., 1 kw. unlt.
 KMAC, San Antonio, CP 930 kcs., 1000 w.
 unlt.
 KOH, Reno, CP 630 kcs., 1 kw. unlt.
 KOVC, Valley City, CP 1340 kcs., 500(1).
 KOY, Phoenix, mod. of lic. for 550 kcs.
 KRBC, Abilene, CP 940 from 1420; 1 kw.
 KRMC, Jamestown, CP 900 kcs., 1 kw.
 KRCC, Rochester, CP 920 kcs., 500(1) unlt.
 KRRV, Sherman, CP 880 kcs., 1 kw. unlt.
 KSD, St. Louis, CP 630 kcs.
 KSEI, Pocatello, CP 600 kcs., 1 kw. unlt.
 KTBS, Shreveport, CP 620 kcs., 1000(5)
 unlt.
 KUTA, Salt Lake City, CP 570 kcs., 1 kw.
 KWK, St. Louis, CP 630 kcs.
 KXL, Portland, CP 730 kcs., 10 kw. unlt.
 KXOK, St. Louis, CP 630 kcs., 1000(5).
 KXYZ, Houston, CP 710 kcs; 10 kw.
 KYOS, Merced, CP 1390 from 1040; 500(1)
 unlt.
 WAPI, Birmingham, CP 1050 kcs., kw.
 WCAD, Canton, CP Watertown, N. Y.
 WCOL, Columbus, to 1200 kcs., 250 w. unlt.
 WGBF, Evansville, CP 1250 kcs., 1000(5)
 unlt.
 WGRC, New Albany, CP 880 kcs., 250 w.
 unlt.
 WHA, Madison, CP 670 kcs. 50 kw. unlt.
 (facilities of WMAQ).
 WIBC, Indianapolis, mod. lic. 1130 from
 1050; 1 kw.
 WJJD, Chicago, CP 1040 from 1130;
 1000(25) unlt.
 WKAQ, San Juan, CP 620 kcs. 5 kw.
 WLAP, Lexington, CP 1270 kcs. 1 kw. unlt.
 WMAZ, Macon, CP 1240 kcs. unlt.
 WMBC, Detroit, CP 600 kcs.
 WPG, Atlantic City, CP New York (facili-
 ties WBIL and WOV).
 WPRP, Ponce, mod. lic. 250 unlt; CP 1480
 from 1420; 1000(5) unlt.
 WREN, Lawrence, CP Kansas City.
 WROL, Knoxville, CP 620 kcs. 500(1).
 WSBT, South Bend, CP 930 kcs. 500 w.
 unlt.
 WSFA, Montgomery, CP 1410 kcs. 1 kw.
 unlt.
 WSPR, Springfield, CP 1240 from 1140; 500
 w. unlt.
 WTCN, Minneapolis, CP 710 kcs. 10 kw.
 unlt.
 WTJS, Jackson, CP 1380 from 1310; 1 kw.;
 mod. lic. 250 unlt.

WWVA, Wheeling, CP 1140 from 1160; 50
 kw.

Applications for New Stations

Albemarle, N. C., Albemarle Brdcatg. Sta-
 tion, 1370 kcs. 100 w. days.
 Arlington, Va., Arlington Brdcatg. Corp., 1420
 kcs 250 unlt.
 Ashland, Wis., WJMS, Inc., 1370 kcs. 100 w.
 unlt.
 Asheville, N. C., Publix-Bamford Theaters,
 Inc., 1430 kcs. 1 kw. unlt.
 Atlantic City, N. J., Atl. City Brdcatg. Co.,
 1100 kcs. 5 kw. sharing with WBIL.
 Atlantic City, N. J., Neptune Brdcatg. Corp.,
 1420 kcs. 100(25).
 Bainbridge, Ga., Post Search Light Co., 1500
 kcs., 100(.25).
 Bellingham, Wash., Bell Brdcatg. Co., Inc.,
 1200 kcs. 100(.25).
 Birmingham, Ala., B. News Co., 590 kcs. 1
 kw. unlt.
 Boston, Mass., Mayflower Brdcatg. Corp.,
 1410 kcs. 500(1).
 Bridgeport, Conn., Chas. Greenblatt, 1190
 kcs. 250 w. ltd.
 Bridgeport, Conn., Harold Thomas, 1420 kcs.
 250 unlt.
 Brownwood, Tex., Brown County Brdcatg.
 Co., 990 kcs. 1 kw. days.
 Burlington, Iowa, Burlington Brdcatg. Co.
 Burlington; N. C., Burlington Brdcatg. Co.,
 1420 kcs., 100 D.
 Burlington, N. C., Central Carolina Brdcatg.
 Co., 1420 kcs., 250 unlt.
 kcs. 100 w. unlt.
 Cedar Rapids, Iowa, The Gazette Co., 1420
 Cheyenne, Wyo., Western Brdcatg. Co., 1210
 kcs. 100(.25).
 Cleveland, Ohio, Cuyahoga Valley Brdcatg.
 Co., 1500 kcs. 100 w. days.
 Clinton, Iowa, Clinton Brdcatg. Corp.
 Columbus, Miss., Birney Imes, 1370 kcs.
 100(.25) unlt.
 Ely, Nev., Eastern Nev. Brdcatg. Co., 1500
 kcs. 100 days.
 Erie, Pa., Presque Isle Brdcatg. Co., 1500
 kcs. 100(.25) unlt.
 Everett, Wash., Cascade Brdcatg. Co., 1420
 kcs. 100(.25) unlt.
 Ft. Myers, Fla., Palm Radio Co., 1210 kcs.,
 250 unlt.
 Greenville, Tex., Hunt Brdcatg. Assn., 940
 kcs., 1 kw D.
 Hannibal, Mo., Courier Post Pub. Co.
 High Point, N. C., High Point Brdcatg. Co.,
 1120 kcs., 250 unlt.
 Jacksonville, Ill., Stephenson, Edge & Kors-
 meyer, 1370 kcs., 250 unlt.
 Kosciusko, Miss., P. K. Ewing, 1500 kcs.,
 100(.25) unlt.
 Las Vegas, Nev., Las Vegas Brdcatg. Co.,
 1420 kcs. 100(.25).
 Las Vegas, Nev., Nev. Brdcatg. Co., 1370
 kcs. 100(.25) unlt.
 Logan, W. Va., Frey and Greever, 1200
 kcs. 100 days.
 Lookout Mt., Ga., Lookout Mt. Corp., of Ga.,
 1370 kcs., 100(.25).
 Louisville, Ky., Gateway Brdcatg. Co., 880
 kcs. 500 unlt.
 Martinsville, W. Va., M. Brdcatg. Co., 1420
 kcs. 250 days.
 Martinsville, W. Va., Patrick Henry Brdcatg.
 Co., 1420 kcs. 100(.25).
 Marysville, Calif., Yuba-Sutter Broadcasters,
 1320 kcs. 250 unlt.
 Miles City, Mont., E. E. Krebsbach 1310 kcs.,
 100(.25).

Miles City, Mont., Star Printing Co., 1310 kcs., 250 unlt'd.
 Minneapolis, Minn., Independent Merchants Brcdstg. Co., 1300 kcs., 1 kw. unlt'd.
 Norfolk, Va., Colonial Brcdstg. Corp., 1370 kcs. 100(.26).
 North Sacramento, Calif., Grant Union High School District, 1530 kcs., 1 kw.
 Olney, Ill., Olney Brcdstg. Co., 1210 kcs. 100(.25) unlt'd.
 Opelika, Ala., Opelika-Auburn Brcdstg. Co., 1370 kcs. 100(.25).
 Orlando, Fla., Hazlewood Co., 1390 kcs. 1 kw. unlt'd.
 Pawtucket, R. I., Pawtucket Brcdstg. Co., 1390 kcs. 1 kw. unlt'd.
 Phoenix, Ariz., M. C. Reese, 1200 kcs. 100(.25) unlt'd.
 Ponce, P. R., Portorican American Brcdstg. Co., 1340 kcs: 1 kw.
 Pontiac, Mich., King-Trendle Brcdstg. Corp., 1440 kcs. 250 unlt'd.
 Riverside, Calif., Brcdstg. Corp. of America, 1390 kcs. 1 kw.
 Riverside, Calif., Richard T. Sampson, 1390 kcs. 250 days.
 Riverside, Calif., Mollin Investment Co., 1390 kcs., 500 w. D.
 Rochester, N. Y., Edward J. Doyle, 1270 kcs. 500 days.
 Salina, N. Y., Sentinel Brcdstg. Corp., 620 kcs. 1 kw. unlt'd.
 Sandusky, Mich., Thumb Brcdstg. Co., 880 kcs. 1 kw. days.
 San Diego, Calif., Jack Hazard, 1430 kcs., 500 w. unlt'd.
 San Juan, P. R., Enrique Abarca Sanfeliz, 580 kcs. 1 kw. unlt'd.
 San Juan, P. R., United Theaters, Inc., 580 kcs. 1 kw. unlt'd.
 Santa Monica, Calif., A. E. Austin, 1160 kcs. 100(.25).
 Scranton, Pa., Lackawanna Brcdstg. Co., 1370 kcs. 100(.25).
 Scranton, Pa., Union Brcdstg. Co., 1370 kcs. 100(.25) unlt'd.
 Shelby, N. C., Jos. A. Lattimore, 1370 kcs. 100(.25) unlt'd.
 Springfield, Ohio, Radio Voice of Springfield, 1310 kcs. 100 unlt'd.
 Springfield, Ohio, S. Radio Corp., 1310 kcs. 100 unlt'd.
 Springfield, Ohio, S. Radio Service, 780 kcs. 250 days.
 Steubenville, Ohio, Valley Brcdstg. Co., 930 kcs., 1 kw D.
 Tacoma, Wash., Tacoma Brcdstg. Co., 1420 kcs. 100(.25).
 Tacoma, Wash., Michael J. Mingo, 1400 kcs. 250 unlt'd.
 Traverse City, Mich., Northern Brcdstg. Co., 570 kcs. 500 days.
 Valdosta, Ga., John F. Arrington, Jr., 1230 kcs. 250 unlt'd.
 Vincennes, Ind., Samuel M. Emison, 1420 kcs. 100 unlt'd.
 Vincennes, Ind., Vin. Newspapers, Inc., 1420 kcs. 100 unlt'd.
 Watertown, N. Y., Black River Valley Brcdstg. Co.
 Watertown, N. Y., Watertown Brcdstg. Corp.
 Watertown, S. Dak., Midland Brcdstg. Co., 1210 kcs., 100(.25).
 kcs. 250 days.
 Willmar, Minn., Lakeland Brcdstg. Co., 680 Wisconsin Rapids, Wis., Wm. F. Huffman, 1130 kcs., 100(.25).
 Worcester, Mass., Winfield A. Schuster, 1200 kcs. 100 unlt'd.
 Worcester, Mass., C. T. Sherer Co., Inc., 1200 kcs. 100(.25).
 Yuma, Ariz., Silver Crest Theaters, 1420 kcs. 100 S. H.

The Month's Changes in Station Data

New

570 Santa Clara, Cuba
 670 Jovelanos, Cuba
 710 Camaguey, Cuba
 730 Victoria Tunas, Cuba
 740 Guantanamo, Cuba
 870 Ciego de Avila, Cuba
 920 CMZ Havana, Cuba
 960 CMKY Santiago de Cuba
 990 Pinar del Rio, Cuba
 1030 Santiago de Cuba
 1040 Matanzas, Cuba
 1100 New York, N. Y.
 1150 Holguin, Cuba
 1200 WHOP Hopkinsville, Ky.
 1200 WMLG Saginaw Mich.
 1210 WFTM Ft. Myers, Fla.
 1240 XEKS Saltillo, Coah.
 1370 KORN Fremont, Nebr.
 1370 WHTR Spartanburg, S. C.
 1370 WSLR Ogdensburg, N. Y.
 1400 CMAR Pinar del Rio, Cuba
 1420 WKIP Poughkeepsie, N. Y.
 1500 WMJM Cordele, Ga.
 1500 WOLF Syracuse, N. Y.

Frequency

660 CMJX Camaguey, Cuba, from 740
 710 CMGH Matanzas, Cuba, from 790
 1000 CMKG Santiago de Cuba, from 1150
 1020 CMHO Sagua la Grande, Cuba, from 870

1020 CMJK Camaguey, Cuba, from 1290
 1030 CMKW Santiago, Cuba, from 770
 1200 KHBC Hilo, Hawaii, from 1400

Power

590 KHQ Spokane, Wash, 5000 from 1000(5)
 690 CMBC Havana, Cuba, 5000 from 200
 750 CMBL Havana, Cuba, 5000 from 200
 1000 CMKG Santiago, 10000 from 200
 1030 CMKW Santiago, 1000 from 200
 1200 KELO Sioux Falls, 250 from 100
 1200 KFJB Marshalltown, 250 from 100(.25)
 1200 KFXJ Grand Junction, 250 from 100(.25)
 1200 KHAS Hastings, 250 from 100(.25)
 1200 KSUN Lowell, 250 from 100(.25)
 1200 WENY Elmira, 250 from 100(.25)
 1200 WHBY Green Bay, 250 from 100(.25)
 1210 WCOU Lewiston, 250 from 100(.25)
 1210 WFOY St. Augustine, 250 from 100(.25)
 1210 WGRM Grenada, 250 from 100(.25)
 1210 WOCB Hyannis, 250 from 100(.25)
 1210 WPID Petersburg 250 from 100(.25)
 1250 WKST New Castle, 1000 from 250
 1310 KARM Fresno, 250 from 100
 1310 KCRJ Jerome, 250 from 100(.25)
 1310 KHUB Watsonville, 250 from 100(.25)

(Please turn to page 82)

KEY TO SYMBOLS

As Shown in the Index by Frequencies

Frequencies are given in kilocycles per second, and wavelengths in meters. Night power is shown in watts in third column and daytime power is shown in parentheses in kilowatts. Thus: (.25) indicates 250 watts. Exact frequencies, when not multiples of ten are shown in the second column.

Second Column Symbols

- A—Status in doubt.
- B—National "Blue" Network.
- C—Columbia Network.
- D—Daytime only.
- E—Minor Network.
- F—Canadian Network.
- G—Specified Hours.
- H—Assigned another frequency—using this one under Special Authorization.
- J—Assigned lower power but using this power under Special Authorization.
- K—Licensed for facsimile.
- L—Limited time.
- M—Mutual Network.

- N—National "Red" and "Blue" Networks.
- P—Has Construction Permit only.
- Q—Station not in use.
- R—National "Red" Network.
- S—Sundays only.
- Sy—Synchronized.
- X—Has Permit to change power.
- Y—Has Permit to change location.
- Z—Has Permit to change frequency.

- a-b-c—Small letters show stations using same transmitter.
- 1-2-3—Figures denote stations sharing time.
- ?—Reported but not officially confirmed.
-—No information.
- a—verifies for return postage.
- b—Verifies only occasionally.
- d—Verifies for government postal card.
- e—Verifies free.
- f—Verifies for 10 cents.
- g—Card for postage; veri stamp for 10c.
- z—No information available.

NORTH AMERICAN BROADCASTING STATIONS BY FREQUENCIES WITH WEEKDAY TIME ON THE AIR

Time is Eastern Standard. Subtract 1 hour for Central, 2 hours for Mountain and 3 hours for Pacific. Add 5 hours for GMT. SS is "Sunset" and LS is "Local Sunset."

540 kcs. (552.2 m.)

CBK F 5000

a Watrous, Sask. Noon to midnight

550 kcs. (545.1 m.)

CFNB F 1000
 CMW .. 2500
 KFUO .. 2 500(1)

a Fredericton, N. B. 7 am-11 pm
 a Havana, Cuba 7:55 am-midnight
 a St. Louis, Mo. 8-9 am; 10:30-10:45 am; 1:15-1:45 pm; 4-4:45 pm; 11 pm-midnight

KFYR N 1000(5)
 KOAC .. 1000
 KSD 2R 1000(5)
 KTSA C 1000(5)
 WDEV D 1000
 WGR C 1000(5)
 WKRC C 1000(5)
 WSWA D 500

a Bismarck, N. Dak.
 a Corvalls, Ore. Noon to midnight
 a St. Louis, Mo.
 a San Antonio, Texas
 a Waterbury, Vt. 6 am-LS
 a Buffalo, N. Y. 7 am-midnight
 a Cincinnati, Ohio
 a Harrisonburg, Va.

560 kcs. (535.4 m.)

KFDM N 500(1)
 KLZ C 1000(5)
 KSFO C 1000(5)
 KWTO D 5000
 WFIL BM 1000
 WIND C 1000(5)
 WIS N 1000(5)
 WQAM C 1000

a Beaumont, Texas
 a Denver, Colo. 8:30 am-2 am
 a San Francisco, Calif. 10 am-4 am
 a Springfield, Mo. 6 am-LS
 a Philadelphia, Pa.
 a Gary, Ind. 6 am-4 am
 a Columbia, S. C. 7 am-midnight
 a Miami, Fla. 6:45 am-midnight

570 kcs. (526 m.)

KGKO N 1000(5)
 KMTR .. 1000
 KVI C 1000(5)
 TISCV 575 100
 WKBN C1 500(1)
 WMAM D 250
 WMCA .. 1000
 WNAX C 1000(5)
 WOSU GI 1000

a Fort Worth, Tex. 7 am-?
 a Los Angeles, Calif.
 a Tacoma, Wash. 9 am-3 am
 z Alajuela, Costa Rica
 a Youngstown, Ohio
 z Marinette, Wis.
 a New York, N. Y. 7 am-1:15 am
 a Yankton, S. Dak. 7 am-?
 a Columbus, Ohio Daily 9-11 am; 1-4 pm; Mon, 8-10 pm; Wed, 8-11 pm; Fri, 7-10 pm

WSYR Ba 1000
 WSYU Qa 1000

a Syracuse, N. Y. 6:15 am-1 am
 a Syracuse, N. Y.

WWNC C 1000
 P 1000

a Asheville, N. C. 7:30 am-1 am
 z Santa Clara, Cuba

580 kcs. (516.9 m.)

CFPR ... 50
 CHRC ... 100
 CKCL ... F 100
 CKPR ... F 1000
 CKUA ... F 500
 KMJ EKN 1000
 KSAC 2 500(1)
 WCHS C 500(5)
 WDBO C 1000(5)
 WIBW C2 1000(5)
 WILL D 5000
 WTAG R 1000
 XEMU ... 250

a Prince Rupert, B. C. 8 am-midnight
 a Quebec, P. Q. 8 am-midnight
 a Toronto, Ont. 8 am-midnight
 a Fort William, Ont. 9 am-11 pm
 b Edmonton, Alta.
 a Fresno, Calif. 9 am-3 am
 a Manhattan, Kans. 10:30 am-6:30 pm
 a Charleston, W. Va. From 6 am
 a Orlando, Fla. 7 am-midnight
 a Topeka, Kans. From 5:30 am
 a Urbana, Ill. 9 am-LS
 a Worcester, Mass. 7:30 am-1 am
 z Piedras Negras, Coah.

590 kcs. (508.2 m.)

CMCY ... 15000
 KHO ER 5000
 WEEI C 1000(5)
 WKZO BDX 1000
 WOW R 1000(5)

a Havana, Cuba 8 am-10 pm
 a Spokane, Wash.
 a Boston, Mass. From 6:30 am
 a Kalamazoo, Mich.
 a Omaha, Nebr. 7 am-3:30 am

600 kcs. (499.7 m.)

CFCF BF 500
 CFQC F 1000
 CJOR ... 500
 FQN 609 250
 KFSD B 1000
 TIGPH 605 1000
 WCAO C 500(1)
 WICC BM 500(1)
 WMT BM 1000(5)
 WREC C 1000(5)

a Montreal, P. Q.
 a Saskatoon, Sask.
 a Vancouver, B. C. 7:45 am-1 am
 a St. Pierre, Miquelon
 a San Diego, Calif.
 a San Jose, Costa Rica
 a Baltimore, Md.
 f Bridgeport, Conn. 6 am-1 am
 a Cedar Rapids, Iowa 6:30 am-1 am
 a Memphis, Tenn.

610 kcs. (491.5 m.)

CHNC F 1000
 KFAR ... 1000
 KFRC MX 1000(5)
 WCLE DM 500
 WDAF R 1000(5)
 WIOD Na 1000
 WIP ... 1000
 WMBF Qa 1000

a New Carlisle, P. Q. 7:30 am-11 pm
 z Fairbanks, Alaska
 b San Francisco, Calif.
 a Cleveland, Ohio 6:45 am-5:30 pm
 a Kansas City, Mo. 7:30 am-1 am
 a Miami, Fla. 7 am-midnight
 a Philadelphia, Pa. 7 am-1 am
 a Miami, Fla.

620 kcs. (483.6 m.)

KGW R 1000(5)
 KTAR N 1000
 KWFT C 250(1)
 TIPG 625 5000
 WFLA Na 1000(5)
 WHJB D 250
 WLBS MN 500(1)
 WSUN Na 1000(5)
 WTMJ N 1000(5)

a Portland, Ore. 9 am-2 am
 a Phoenix, Ariz. 9 am-1:15 am
 z Wichita Falls, Tex.
 b San Jose Costa Rica
 a Tampa, Fla.
 a Greensburg, Pa. 8 am-5 pm
 a Bangor, Maine From 8 am
 a St. Petersburg, Fla. 7 am-1 am
 a Milwaukee, Wis. 7 am-1:30 am

630 kcs. (475.9 m.)

CFCO F 100
 CFCY F 1000
 CJRC F 1000
 CKOV F 1000
 CMCD ... 15000
 KFRU i 500(1)
 KGFX D 200
 KVOB B 1000
 WGBF N1 500(1)
 WMAL B 250(5)
 WPRO CX 500(1)
 XEZ ... 2000

a Chatham, Ont. 8 am-10:30 pm
 a Charlottetown, P. E. I. 9 am-11 pm
 a Winnipeg, Man. 8:30 am-2 am
 a Kelona, B. C. 7 am-11 pm
 a Havana, Cuba 9 am-10:30 pm
 a Columbia, Mo.
 a Pierre, S. Dak.
 a Denver, Colo.
 a Evansville, Ind.
 a Washington, D. C. 6 am-midnight
 a Providence, R. I. 6 am-1 am
 a Merida, Yuc.

640 kcs. (468.5 m.)

HOK ...
 KFI R 50000
 VONF ... 12500
 WGAN CL 500
 WHKC LM 500
 WOI D 5000
 XEBX ... 250
 YSS ... 500

z Colon, Panama
 f Los Angeles, Calif.
 a St. John's, Nfld.
 a Portland, Maine
 a Columbus, Ohio
 a Ames, Iowa
 z Sabinas, Cosh.
 a San Salvador, E. S.

Noon-2 pm; 6 pm-midnight
 9:45 am-3 am
 8:30 am-12:30 pm; 4:30-9:30 pm
 6:30 am-SS on Pacific Coast
 6:30 am-7:45 pm

650 kcs. (461.3 m.)

TIGPH P
 WSM KN 50000

z San Jose, C. R.
 a Nashville, Tenn.

....

660 kcs. (454.3 m.)

CMJX ... 200
 CMOA ... 200
 KOWH BD 500
 WEAJ R 50000
 XEAO ... 250

z Camaguey, Cuba
 z Havana, Cuba
 a Omaha, Nebr.
 a New York, N. Y.
 a Mexicali, B. Cfa.

7:55 am-11 pm
 7 am-LS
 6:30 am-1 am

670 kcs. (447.5 m.)

WMAQ R 50000
 XELO ... 50000
 P 1000

b Chicago, Ill.
 a Tijuana, B. Cfa.
 z Jovellanos, Cuba

6:30 am-1 am
 7 am-2:15 am

680 kcs. (440.9 m.)

CMHW ... 200
 KFEO ... 500 (2.5)
 KPO R 50000
 VAS 685 2000
 WLAJ D 1000
 WPTF JN 5000

f Santa Clara, Cuba
 a St. Joseph, Mo.
 a San Francisco, Calif.
 f Glace Bay, N. S.
 a Lawrence, Mass.
 a Raleigh, N. C.

....
 7 am-?
 11 am-3 am

 7 am-LS

690 kcs. (434.5 m.)

CFRB C 10000
 CJCJ F 100
 CMBC ... 5000
 TIGH ... 1000
 XET ... 5000

a Toronto, Ont.
 a Calgary, Alta.
 z Havana, Cuba
 b San Jose, Costa Rica
 a Monterrey, N. L.

....
 9:30 am-1 am
 6:55 am-midnight
 5:30 am-9 pm

700 kcs. (428.3 m.)

VOWR ... 500
 WLW KMN 50000
 W8XO Exp 50000

b St. John's, Nfld.
 a Cincinnati, Ohio
 a Cincinnati, Ohio

....
 From 5:45 am

710 kcs. (422.3 m.)

CMGH ... 200
 CMKS ... 200
 KIRO C 1000
 KMPC LX 500
 WOR KM 50000
 P 1000

a Matanzas, Cuba
 a Guantanamo, Cuba
 a Seattle, Wash.
 a Beverly Hills, Calif.
 a Newark, N. J.
 z Camaguey, Cuba

....

 Until 8 am
 9 am-8 am
 6:25 am-2:05 am

720 kcs. (416.4 m.)

CMK ... 200
 T14NRH 725 750
 WGN KM 50000
 XEWE ... 20

a Havana, Cuba
 f Heredia, Costa Rica
 b Chicago, Ill.
 z Silao, Gto.

....

730 kcs. (410.7 m.)

CFPL F 100
 CJCA F 1000
 CKAC C 5000
 XEPN AQ 100000
 XEQ ... 50000
 P 1000

a London, Ont.
 a Edmonton, Alta.
 a Montreal, P. Q.
 a Piedras Negras, Coah.
 a Mexico City, D. F.
 z Victoria Tunas, Cuba

9 am-3 am
 9 am-2 am
 7:30 am-1 am

740 kcs. (405.2 m.)

KMMJ	L	1000
KTRB	D	250
WHEB	D	250
WSB	R	50000
XEH	...	250
....	P	1000

a	Grand Island, Nebr.	....
a	Modesto, Calif.	9 am-8:30 pm
a	Portsmouth, N. H.	7 am-LS
a	Atlanta, Ga.	6:55 am-1 am
a	Monterrey, N. L.	....
z	Guantanamo, Cuba	....

750 kcs. (399.8 m.)

CMBL	LN	5000
KGU	LN	2500
TING	...	375
WJR	C	50000
XEAA	...	200
XEAM	...	25

a	Havana, Cuba	11:30 am-4:30 am
a	Honolulu, Hawaii	....
z	San Jose, Costa Rica	5:30 am-2 am
a	Detroit, Mich.	....
a	Mexicali, B. Cfa.	....
z	Matamoros, Tam.	....

760 kcs. (394.5 m.)

KXA	X	250(.5)
WBAL	BHMSy	2500
WCAL	D2	5000
WEW	D	1000
WJZ	BSy	50000
WLB	D2	5000

a	Seattle, Wash.	Until 6 am
a	Baltimore, Md.	9 pm-1 am
a	Northfield, Minn.	....
a	St. Louis, Mo.	8 am-LS
a	New York, N. Y.	6:30 am-1 am
a	Minneapolis, Minn.	....

770 kcs. (389.4 m.)

KFAB	CSyXZ	10000
TILJ	775	450
WBBM	CSy	50000

a	Lincoln, Nebr.	5:45 am-1 am
z	San Jose, C. Rica	....
a	Chicago, Ill.	....

780 kcs. (384.4 m.)

CHWK	F	100
CKSO	F	1000
CMQ	N	25000
KECA	...	1000(.5)
KFDY	D	1000
KFQD	...	250
KGHL	N	1000(.5)
KWLK	D	250
WEAN	BM	1000(.5)
WMC	JR	5000
WPIC	D	250
WTAR	JN	5000
XEN	...	1000

f	Chilliwack, B. C.	11 am-1:15 am
a	Sudbury, Ont.	9 am-midnight
a	Havana, Cuba	....
a	Los Angeles, Calif.	9 am-?
a	Brookings, S. Dak.	1:30-3 pm
b	Anchorage, Alaska	11 pm-5 am
a	Billings, Mont.	9 am-1 am
a	Longview, Wash.	....
a	Providence, R. I.	From 6 am
a	Memphis, Tenn.	7:45-1 am
a	Sharon, Pa.	....
g	Norfolk, Va.	....
a	Mexico City, D. F.	....

790 kcs. (379.5 m.)

KGO	B	7500
KOAM	DN	1000
WGY	R	50000
ZNS	...	1000

a	San Francisco, Calif.	7 am-1 am
a	Pittsburg, Kans.	....
a	Schenectady, N. Y.	6:30 am-1 am
d	Nassau, Bahamas	....

800 kcs. (374.8 m.)

HIX	...	800
TIXD	...	1000
WBAP	ENa	50000
WFAA	ENa	50000
WTBO	D	250

a	Trujillo, D. R.	....
z	San Jose, Costa R.	....
a	Fort Worth, Texas	7 am-midnight
a	Dallas, Texas	9 am-12:30 am
a	Cumberland, Md.	8:30 am-LS

810 kcs. (370.2 m.)

CMCF	...	5000
WCCO	C	50000
WNYC	D	1000
XEBZ	...	100
XEDF	...	100

a	Havana, Cuba	....
g	Minneapolis, Minn.	7:30 am-1 am
a	New York, N. Y.	7 am-6:30 pm
a	Mexico City, D. F.	11 am-3:15 pm; 7-8:15 pm
a	Nuevo Laredo, Tam.	....

820 kcs. (365.6 m.)

WHAS	C	50000
XEBG	...	1000

a	Louisville, Ky.	....
z	Tijuana, B. Cfa.	....

830 kcs. (361.2 m.)

CMHI	E	1000
KOA	R	50000
TIEP	...	3000
WEEU	DR	1000
WHDH	L	1000
WRUF	L	5000
XERC	...	500

- a Santa Clara, Cuba
- a Denver, Colo.
- a San Jose, C. Rica
- a Reading, Pa.
- a Boston, Mass.
- a Gainesville, Fla.
- z Mexico City, D. F.

9 am-2 am
 8 am-5 pm
 From 6:30 am
 7 am-6:30 pm

840 kcs. (356.9 m.)

CBL	F	50000
VOGY	...	400
XERA	...	250000

- a Toronto, Ont.
- a St. John's, Nfld.
- a Villa Acuna, Coah.

8:30 am-12:30 pm; 4:30-9:30 pm
 From 5:30 am

850 kcs. (352.7 m.)

CMCM	...	200
KIEV	D	250
WESG	CD	1000
WKAR	DX	1000
WWL	C	50000

- a Havana, Cuba
- a Glendale, Calif.
- a Elmira, N. Y.
- a E. Lansing, Mich.
- a New Orleans, La.

8 am-11:30 pm
 6 am-55 at New Orleans
 7 am-5 pm
 From 6 am

860 kcs. (348.6 m.)

CMJA	...	200
TIEMC	...	250
WABC	Ca	50000
WBOQ	QA	50000
WHB	DM	1000
XEMO	...	5000

- a Camayuey, Cuba
- z San Jose, C. Rica
- a New York, N. Y.
- a New York, N. Y.
- a Kansas City, Mo.
- a Tijuana, B. Cfa.

6:27 am-2 am
 9:45 am-3 am

870 kcs. (344.6 m.)

WENR	Ba	50000
WLS	Ba	50000
XEFB	..	200
....	P	1000

- b Chicago, Ill.
- a Chicago, Ill.
- a Monterrey, N. L.
- z Ciego de Avila, Cuba

Noon-midnight
 8 am-Noon

880 kcs. (340.7 m.)

CBO	F	1000
CFJC	F	1000
CMX	...	15000
KFKA	M2	500(1)
KLX	...	1000
KPOF	..	1000
KVAN	D	250
TILS	...	500
WCOC	C	1000
WGBI	CI	500(1)
WQAN	I	500(1)
WRNL	DX	500
WSUI	X	500(1)

- a Ottawa, Ont.
- a Kamloops, B. C.
- a Havana, Cuba
- a Greeley, Colo.
- a Oakland, Calif.
- a Denver, Colo.
- z Vancouver, Wash.
- b San Jose, C. Rica
- a Meridan, Miss.
- f Scranton, Pa.
- a Scranton, Pa.
- a Richmond, Va.
- a Iowa City, Iowa

7:45 am-midnight
 8 am-midnight
 7:30 am-1 am
 10:30 am-2:30 am
 4 am-LS
 12:30-10:30 pm
 12:30-10 pm
 6 am-LS
 10 am-11 pm

890 kcs. (336.9 m.)

KARK	N	1000
KFNF	X2	500(1)
KFPY	C	1000(5)
KTKC	M	1000
KUSD	Z	500
WBAA	...	500(1)
WGST	C	1000(5)
WJAR	R	1000(5)
WMMN	C	1000(5)
XEW	...	100000

- a Little Rock, Ark.
- a Shenandoah, Iowa
- a Spokane, Wash.
- f Visalia, Calif.
- a Vermillion, S. Dak.
- a W. Lafayette, Ind.
- a Atlanta, Ga.
- a Providence, R. I.
- a Fairmont, W. Va.
- a Mexico City, D. F.

7 am-1 am
 7 am-1 am
 9:50 am-2 am
 Noon-6 pm
 7:30 am-1 am
 From 5:30 am

900 kcs. (333.1 m.)

HIG	...	250
KGBU	X	500
KHJ	M	1000(5)
KSEI	N	250(1)
TIAFB	...	500
WBEN	R	1000(5)
WFMD	D	500

- z Trujillo, D. R.
- a Ketchikan, Alaska
- a Los Angeles, Calif.
- a Pocatello, Idaho
- z San Jose, C. Rica
- a Buffalo, N. Y.
- a Frederick, Md.

Until 4 am
 9:30 am-1 am
 7 am-1 am
 6:30 am-LS

WJAX N 1000(5)
WKY N 1000(5)
WLBL D 5000
WTAD D 1000

910 kcs. (329.6 m.)

CBF FN 50000
CJAT F 1000
CKY F 15000
CMBO ... 5000
CMKD ... 1000
XENT Q 50000

920 kcs. (325.9 m.)

CMHT ... 200
CMZ ... 5000
KFEL M 1000
KOMO R 1000(5)
KPRC ER 1000(5)
TIRS 925 200
WAAF D 1000
WORLD D 500
WPEN ... 1000
WSPA D 1000
WWJ R 1000(5)

930 kcs. (322.4 m.)

CFAC F 1000
CFCH F 100
CFLC ... 100
CHNS F 1000
CKPC ... 100
CMJF ... 200
KMA B 1000(5)
KROW ... 1000
WBRC R 1000(5)
WDBJ C 1000(5)
WELI ... 250(5)
XEBH ... 500

940 kcs. (319 m.)

CMBZ ... 200
KOIN C 1000(5)
TIOS ... 500
WAAT D 500
WAVE N 1000
WCSH R 1000(2.5)
WDAY N 1000(5)
WHA D 5000
WICA DX 250
XEFO ... 5000

950 kcs. (315.6 m.)

CBV F 1000
CJRM F 1000
CMKL ... 200
KFWB ... 1000(5)
KMBC C 1000(5)
VOAR ... 25
WHAL DP 500
WRC R 1000(5)
WTRY DP 1000

960 kcs. (312.3 m.)

CBM FR 5000
CFRN F 100
CMKY ... 5000
KEAW ... 100000

970 kcs. (309.1 m.)

CMCK ... 5000
KJR B 5000

a Jacksonville, Fla.
a Oklahoma City, Okla.
a Stevens Point, Wis.
a Quincy, Ill.

6 am-1 am
7:45 am-1 am
9 am-5 pm
8 am-5:45 pm

a Montreal, P. Q.
a Trail, B. C.
a Winnipeg, Man.
a Havana, Cuba
a Santiago de Cuba
a Nuevo Laredo, Tam.

8 am-midnight
10 am-2 am
8:30 am-1 am
8 am-midnight

z Trinidad, Cuba
z Havana, Cuba
a Denver, Colo.
a Seattle, Wash.
a Houston, Texas
z San Jose, C. Rica
a Chicago, Ill.
a Boston, Mass.
a Philadelphia, Pa.
a Spartanburg, S. C.
a Detroit, Mich.

....
....
8 am-2:30 am
....
....
....
6 am-LS
7 am-LS
....
6 am-LS
....

a Calgary, Alta.
a North Bay, Ont.
a Prescott, Ont.
a Halifax, N. S.
a Brantford, Ont.
z Camaguey, Cuba
a Shenandoah, Iowa
a Oakland, Calif.
a Birmingham, Ala.
a Roanoke, Va.
a New Haven, Conn.
a Hermosillo, Son.

9 am-2 am
7 am-10 pm
7:30 am-11 pm
....
....
From 5:30 am
9 am-5 am
8 am-12:30 am
7 am-midnight
From 6 am
1-3 pm; 9 pm-midnight

a Havana, Cuba
a Portland, Ore.
z San Jose, C. Rica
a Jersey City, N. J.
a Louisville, Ky.
a Portland, Maine
a Fargo, N. Dak.
a Madison, Wis.
a Ashtabula, Ohio
a Mexico City, D. F.

7:45 am-1 am
9:30 am-3 am
....
6:30 am-6 pm
8 am-1 am
7:30 am-midnight
7 am-1 am
9 am-5:30 pm
7 am-LS
....

a Quebec, P. Q.
a Regina, Sask.
z Bayamo, Cuba
a Los Angeles, Calif.
a Kansas City, Mo.
z St. John's, Nfld.
z Saginaw, Mich.
z Washington, D. C.
z Troy, N. Y.

Noon-midnight
....
9:30 am-4 am
6:55 am-1 am
....
6 am-1 am
....

a Montreal, P. Q.
a Edmonton, Alta.
z Santiago de Cuba
a Reynosa, Tam.

....
9:30 am-3 am
....
From 5:30 am

z Havana, Cuba
a Seattle, Wash.

7:50 am-12:30 am
10 am-3 am

WCFL N 5000
WIBG D 100

a Chicago, Ill.
a Glenside, Pa. 7:30 am-LS

980 kcs. (306 m.)

KDKA B 50000
XEAC ... 5000
XEFE ... 250

b Pittsburgh, Pa.
a Tijuana, B. Cfa. 8 am-1 am
z Nuevo Laredo, Tam.

990 kcs. (302.8 m.)

WBZ BSy 50000
WBZA BSy 1000
XEAF ... 750
XEK X 100
XES ... 250
.... P 1000

a Boston, Mass. 6 am-1 am
a Springfield, Mass. 6 am-1 am
a Nogales, Son. 11 am-3 pm; 7 pm-midnight
a Mexico City, D. F.
a Tampico, Tam.
z Pinar del Rio, Cuba

1000 kcs. (299.8 m.)

CMKG ... 10000
KFVD L 1000
TIFA ... 250
WHO KR 50000
XBI ... 250

z Santiago de Cuba
a Los Angeles, Calif.
z San Jose, C. Rica 9 am-8:15 pm
a Des Moines, Iowa 7 am-1 am
a Aguascalientes, Ags.

1010 kcs. (296.9 m.)

CHML F 100
CKCD 1 100

a Hamilton, Ont. 8 am-midnight
a Vancouver, B. C. MT, 10:30 am-2:30 am; WF, 11 am-midnight; Th, 10:30 am-12:30 am

CKCK F 1000
CKCO F 100
CKIC ... 50
CKWX Fi 100
CMCU ... 200
KGGF M2 1000

a Regina, Sask. 9:30 am-2 am
a Ottawa, Ont. Noon-11:30 pm
a Wolfville, N. S.
a Vancouver, B. C. Noon-4 am
a Havana, Cuba 6:55 am-1 am
a Coffeyville, Kans. 8 am-11:30 pm; TWT, 12:30-3 pm; TuTh, 5-8 pm; W, 5-11:30 pm

KOW M 1000(5)
WHN ... 1000(5)
WNAD 2 1000
WNOX C 1000(5)
XEFO ... 50
XEU ... 500

a San Jose, Calif. 9:30 am-3 am
a New York, N. Y. 7 am-1 am
a Norman, Okla. 3-10:15 pm
a Knoxville, Tenn. 6 am-2 am
a Cananea, Son.
a Veracruz, Ver. C. 8 am-1 am

1020 kcs. (293.9 m.)

CMHO ... 2000
CMJK ... 200
KYW R 10000
WDZ D 1000
XEJ ... 1000

z Sagua la Grande, Cuba
a Camaguey, Cuba
b Philadelphia, Pa. 6 am-10 pm
a Tuscola, Ill. 7 am-6 pm
a Juarez, Chih.

1030 kcs. (291.1 m.)

CFCN F 10000
CJBR F 1000
CKLW FM 5000
CMKW ... 1000
TIHO ... 500
XEB ... 20000
.... P 1000

a Calgary, Alta. 9 am-1:30 am
a Rimouski, P. Q.
a Windsor, Ont. 6 am-4 am
z Santiago de Cuba
z San Jose, C. Rica
a Mexico City, D. F. 10 am-12:15 am
z Santiago de Cuba

1040 kcs. (288.3 m.)

KRLD C 50000
KWJJ HL 500
KYOS DM 250
VOCM ... 100
WTIC HR 50000
.... P 1000

a Dallas, Texas
a Portland, Ore. 9 am-5:45 am
a Merced, Calif. 9 am-LS
z St. John's, Nfld.
a Hartford, Conn. 6 am-1 am
z Matanzas, Cuba

1050 kcs. (285.5 m.)

CBA F 50000
CMCH ...

a Sackville, N. B. 7 am-midnight
z Havana, Cuba 7:55 am-midnight

HIT
KFBI LY 50
KNX C 5000
WEAU L 1000 (5)
WIBC D 1000

z Trujillo, D. R.
a Abilene, Kans.
b Los Angeles, Calif.
a Eau Claire, Wis.
a Indianapolis, Ind.

7 am-7:45 pm
9:30 am-3:15 am
7 am-LS

1060 kcs. (282.8 m.)

KTHS HN 10000
VOAC 1065 40
WBAL BM 10000
WJAG L 1000

a Hot Springs, Ark.
z St. John's, Nfld.
a Baltimore, Md.
a Norfolk, Nebr.

7 am-LS; 9 pm-1 am
6:30 am-9 pm
7:30 am-LS

1070 kcs. (280.2 m.)

CMJW ... 200
KJBS L 500
TINBC P 5000
WCAZ D 100
WTAM R 5000

z Camaguey, Cuba
a San Francisco, Calif.
z San Jose, C. Rica
a Carthage, Ill.
a Cleveland, Ohio

1 am-9:45 pm
7 am-4 pm
6 am-midnight

1080 kcs. (277.6 m.)

CMBX ... 200
CMKM ... 200
WBT C 5000
WCBD LI 5000
WMBI LI 5000

a Havana, Cuba
a Manzanillo, Cuba
a Charlotte, N. C.
a Chicago, Ill.
g Chicago, Ill.

5:30 am-midnight
8-8:30 am; 11:30 am-2 pm;
4-5:30 pm

XEBA ... 20
XEBK ... 100
XEDP ... 500

z Guzman, Jal.
z Nuevo Laredo, Tam.
a Mexico City, D. F.

1090 kcs. (275.1 m.)

GMHA ... 200
HIN ... 100
KMOX C 5000
XERB ... 5000

z Sagua la Grande, Cuba
z Trujillo, D. R.
a St. Louis, Mo.
a Tijuana, B. Cfa.

7 am-1 am

1100 kcs. (272.6 m.)

CBR F 5000
CMHP ... 200
KGDM DM 1000
KWKH CH 1000
WBIL I 5000
WCAR DP 1000
WPG CI 5000
.... P 5000

a Vancouver, B. C.
z Placetas, Cuba
f Stockton, Calif.
a Shreveport, La.
a New York, N. Y.
z Pontiac, Mich.
a Atlantic City, N. J.
z New York, N. Y.

Until 3 am
9 am-LS
9 am-12:30 am
8 am-6 pm; 8 pm-midnight

1110 kcs. (270.1 m.)

CMCJ ... 200
KSOO LN 5000
WRVA CM 5000
XECL ... 1000

a Havana, Cuba
a Sioux Falls, S. Dak.
a Richmond, Va.
z Mexicali, B. Cfa.

8 am-9 pm
7 am-LS
5:55 am-1 am

1120 kcs. (267.7 m.)

CBJ F 100
CHLP F 100
CHSJ F 100
CKOC F 500 (1)
CKX F 1000
CMGF ... 200
KFIO D 100
KFSG a 500 (2.5)
KRKD a 500 (2.5)
KRSC EX 250
KTBC DG2 1000
WCOP D 500
WDEL R 250 (1)
WISN C 250 (1)
WJBO B 500
WTAW GZ 500

a Chicoutimi, P. Q.
a Montreal, P. Q.
a St. John, N. B.
a Hamilton, Ont.
a Brandon, Man.
a Matanzas, Cuba
a Spokane, Wash.
a Los Angeles, Calif.
a Los Angeles, Calif.
a Seattle, Wash.
z Austin, Texas
a Boston, Mass.
a Wilmington, Del.
a Milwaukee, Wis.
a Baton Rouge, La.
a College Station, Texas

3:15-11:15 pm
9 am-11 pm
4:55 am-midnight
6 am-?
9 am-12:30 am
9 am-3 am
9 am-4:30 am
7 am-4 pm
9 am-11 pm
8 am-1 am
7:45 am-1 am

1130 kcs. (265.3 m.)

CMJI ... 200
 KSL C 50000
 WJJD L 20000
 WOV D 1000
 XEJP ... 100

a Ciego de Avila, Cuba
 a Salt Lake City, Utah
 a Chicago, Ill.
 a New York, N. Y.
 z Mexico City, D. F.

.....
 Noon-10 pm
 8:30 am-3 am
 6 am-6:45 pm

1140 kcs. (263 m.)

CMBG ... 200
 KVOO N 25000
 WAPI C 5000
 WSPR LM 500

z Havana, Cuba
 a Tulsa, Okla.
 a Birmingham, Ala.
 a Springfield, Mass.

.....
 7:57 am-midnight
 From 7 am
 7 am-1 am
 7 am-3:45 pm

1150 kcs. (260.7 m.)

WHAM N 50000
 XEBP ... 250
 XEC ... 100
 XEDW ... 300
 KEL ... 250
 XEXH ... 400
 P 1000

a Rochester, N. Y.
 z Durango, Dgo.
 a Tijuana, B. Cfa.
 a Minatitlan, Ver. C.
 z Mexico City, D. F.
 z Oaxaca, Oax.
 z Holguin, Cuba

.....
 7 am-midnight

1160 kcs. (258.5 m.)

CMHJ ... 200
 WOWO B 10000
 WWVA C 5000
 XEAS ... 100
 XED ... 2500
 XEFM
 KEP ... 500

a Cienfuegos, Cuba
 a Fort Wayne, Ind.
 a Wheeling, W. Va.
 a Saltillo, Coah.
 a Guadalajara, Jal.
 z Leon, Gto.
 a Juarez, Chih.

.....

 From 6 am

 Noon-midnight

 9 am-2 am

1170 kcs. (256.3 m.)

CMBS ... 200
 WCAU C 50000
 XEXX ... 1000

a Havana, Cuba
 a Philadelphia, Pa.
 z Mexico City, D. F.

.....
 7:27 am-11 pm
 6 am-1 am

1180 kcs. (254.1 m.)

KEX B 5000
 KOB N 10000
 WDGY LM 1000(5)
 WINS L 1000
 WMAZ CL 1000(5)

a Portland, Ore.
 a Albuquerque, N. Mex.
 a Minneapolis, Minn.
 a New York, N. Y.
 a Macon, Ga.

.....
 9:30 am-3 am
 9 am-1 am
 7 am-7:30 pm

 6 am-7 pm

1190 kcs. (252 m.)

CMKX ... 200
 WOAI EN 50000
 WSAZ L 1000

z Banes, Cuba
 a San Antonio, Texas
 a Huntington, W. Va.

.....
 7:30 am-12:30 am
 6 am-7 pm

1200 kcs. (249.9 m.)

CFGP ... 100
 CHAB F 100(.25)
 CHGB F 100

a Grande Prairie, Alta.
 a Moose Jaw, Sask.
 z St. Anne de la Pocatierrre, P. Q.

.....
 9:45 am-5 pm; 7 pm-midnight
 9 am-12:30 am

CKNX ... 100
 CKTB F 100
 CMCO ... 200
 KADA EM 100
 KAST ... 250
 KBTM D 100
 KELO N 250
 KFJB ... 250
 KFXD ... 100(.25)
 KFXJ ... 250
 KGDE ... 100(.25)
 KGEK ... 100

a Wingham, Ont.
 a St. Catharines, Ont.
 a Havana, Cuba
 a Ada, Okla.
 a Astoria, Ore.
 a Jonesboro, Ark.
 a Sioux Falls, S. Dak.
 a Marshalltown, Iowa
 a Nampa, Idaho
 a Grand Junction, Colo.
 b Ferqus Falls, Minn.
 f Sterling, Colo.

.....
 8:30 am-10 pm
 9:30 am-11:30 pm
 7:55 am-midnight

 8:30 am-6:30 pm
 1 pm-1 am
 7 am-10 pm
 8 am-11 pm

 8 am-10 pm
 1:30-3:30 pm; Tu, Fri, 9:15-10:45 pm
 24 hours daily
 8:30 am-11 pm

KGFJ ... 100
 KGHI ... 250
 KHAS P 250

a Los Angeles, Calif.
 a Little Rock, Ark.
 z Hastings, Nebr.

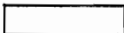
KHBC	CM	250.	a	Hilo, Hawaii	Noon-4 am
KMLB	...	250	a	Monroe, La.	10 am-7:45 pm
KOOS	M	250	a	Marshfield, Ore.	11 am-midnight
KSUN	E	250	a	Lowell, Ariz.	9:30 am-3 am
KVCV	M	100	a	Redding, Calif.	From 9:30 am
KVEC	M	250	a	San Luis Obispo, Calif.	....
KVNU	X	100	z	Logan, Utah	....
KVOS	MX	100	a	Bellingham, Wash.	10 am-3 am
KWBD	DP	100	z	Plainview, Texas	....
KWG	EN	100	a	Stockton, Calif.	....
KWNO	E	250	a	Winona, Minn.	....
TIRCC	...	500	z	San Jose, C. Rica	....
WABI	C	250	a	Bangor, Maine	....
WAIM	C	100	a	Anderson, S. C.	6 am-10 pm
WAYX	...	250	a	Waycross, Ga.	7 am-9 pm
WBAB	P	100(.25)	z	Atlantic City, N. J.	....
WBBZ	M	250	a	Ponca City, Okla.	8 am-10 pm
WBHP	...	100	a	Huntsville, Ala.	....
WCAT	D	100	a	Rapid City, S. Dak.	Noon-2 pm
WCAX	...	250	a	Burlington, Vt.	7:30 am-9 pm
WCLO	...	250	a	Janesville, Wis.	8 am-10 pm
WCPO	...	250	a	Cincinnati, Ohio	7 am-11:30 pm
WDLP	P	100(.25)	z	Panama City, Fla.	....
WDSM	M	100	z	Superior, Wis.	....
WENY	M	250	z	Elmira, N. Y.	....
WEST	...	250	a	Easton, Pa.	7:30 am-9 pm
WEST	P	100	z	Salem, Mass.	....
WFAM	4	100	a	South Bend, Ind.	....
WFTC	...	250	a	Kinston, N. C.	....
WHBC	...	250	a	Canton, Ohio	From 6 am
WHBY	EY	250	a	Green Bay, Wis.	M, Tu, F, 9 am-10:30 pm; Th, 9 am-10:45 pm
WHOP	P	250	z	Hopkinsville, Ky.	....
WIBX	C	250	a	Utica, N. Y.	5:30 am-1 am
WIL	...	250	a	St. Louis, Mo.	Until 3 am
WJBC	J	250	a	Bloomington, Ill.	4-8:30 pm
WJBL	Z5	100	a	Decatur, Ill.	7-10 am; 1:30-4 pm; 8:30 pm- 1 am
WJBW	L	100	a	New Orleans, La.	2 pm-3 am
WJHL	...	250	a	Johnson City, Tenn.	7 am-midnight
WJNO	C	250	a	W Palm Beach, Fla.	....
WJRD	D	250	a	Tuscaloosa Ala.	8 am-11 pm
WKBO	N	100(.25)	a	Harrisburg, Pa.	7 am-11 pm
WLVA	...	250	a	Lynchburg, Va.	From 6 am
WMFR	X	100	z	High Point N. C.	....
WMLG	GP	100(.25)	a	Saginaw, Mich.	....
WMOB	DP	100	z	Mobile, Ala.	....
WMPC	G	250	a	Lapeer, Mich.	7 am-?
WOLS	X	100	a	Florence, S. C.	8 am-midnight
WRBL	C	250	a	Columbus, Ga.	....
WSKB	...	100	z	McComb, Miss.	....
WSOO	P	100(.25)	z	Saul Ste. Marie, Mich.	....
WTHT	M	100	a	Hartford, Conn.	7 am-4:15 pm
WTOL	...	100	a	Toledo, Ohio	From 6 am
WWAE	4	100	a	Hammond, Ind.	....

1210 kcs. (247.8 m.)

CHLT	...	100	z	Sherbrooke, P. Q.	....
CJCS	...	50	a	Stratford, Ont.	8 am-9 pm
CJOC	F	100	a	Lethbridge, Alta.	9 am-1 am
CKBI	F	100	a	Prince Albert, Sask.	9:45 am-1 am
CKCH	F	100	a	Hull, P. Q.	8 am-11 pm
CKMC	...	50	a	Cobalt, Ont.	....
CMHK	...	200	z	Cruces Cuba	10 am-1 pm; 4-10 pm
KALB	...	250	a	Alexandria, La.	....
KANS	NX	100	a	Wichita, Kans.	7:30 am-midnight
KASA	M	100	a	Elk City, Okla.	7 am-8 pm
KLDR	...	250	a	Devils Lake, N. Dak.	7:30 am-9:30 pm
KDON	M	100	a	Monterey, Calif.	From 9:30 am
KFJI	...	100	a	Klamath Falls, Ore.	From 9 am
KFOR	EM	100(.25)	a	Lincoln, Nebr.	8 am-11:15 pm
KFPW	XZ	100	a	Fort Smith, Ark.	7:30 am-11 pm
KFVS	G6	250	a	Cape Girardeau, Mo.	....
KFXM	M2	100	a	San Bernardino, Calif.	9 am-3 am
KGLO	C	250	z	Mason City, Iowa	7 am-1 am
KGY	M	100	a	Olympia, Wash.	M, Tu, W, F, 10 am-2 am; Th, 10 am-10:30 pm
KHGB	D	100	a	Oklmulgee, Okla.	....
KIUL	...	100	a	Garden City, Kans.	8 am-10 pm

KLAH	...	100(.25)	a	Carlsbad, N. Mex.	8:30 am-11 pm
KOCA	...	250	a	Kilgore, Texas	10:15 am-midnight
KOVO		100(.25)	z	Provo, Utah	.....
KPFA	EN	250	a	Helena, Mont.	10:15 am-midnight
KPPC	2	100	a	Pasadena, Calif.	Wed, 10 pm-12:30 am,
KROY	C	100	a	Sacramento, Calif.	9:30 am-2:30 pm
KVSO	M	100(.25)	a	Ardmore, Okla.	8 am-11 pm
KWJB	...	250	a	Globe, Ariz.	10 am-midnight
KWTN	A	100	a	Watertown, S. Dak.	.....
KXOX	DP	250	z	Sweetwater, Tex.	.....
KYUM	P	100(.25)	z	Yuma, Ariz.	.....
WBAX	AM	100	a	Wilkes-Barre, Pa.	.....
WBBL	S	100	a	Richmond, Va.	11 am-9:15 pm
WBRB	3	100	a	Red Bank, N. J.	M, Th, F, 9-11 am; M, 7-9 pm; Tu, 4-7 pm; W, 5-8 pm; Th, 5-7 pm; F, 1 pm-midnight
WCOL	NXZ	100	a	Columbus, Ohio	7 am-midnight
WCOU	M	250	a	Lewiston, Maine	6 am-midnight
WCOV		100	z	Montgomery, Ala.	.....
WCRW	4	100	a	Chicago, Ill.	11 am-7 pm
WEBQ	G6	250	a	Harrisburg, Ill.	7-10 am; 1-5 pm; M, W, F, 9:30 pm-1 am; Tu, Th, 8:30-10 pm
WEDC	G4	250	a	Chicago, Ill.	1-7 am
WFAS	3-	100	a	White Plains, N. Y.	7:30 am-10 pm
WFOY	...	250	a	St. Augustine, Fla.	.....
WFTM	P	100(.25)	z	Ft. Myers, Fla.	.....
WGBB	3	100	a	Freeport, N. Y.	.....
WGCM	...	100(.25)	a	Gulfport, Miss.	.....
WGRM	Y	250	a	Grenada, Miss.	.....
WHAI	M	250	a	Greenfield, Mass.	6 am-?
WHBU	...	100(.25)	a	Anderson, Ind.	.....
WHIZ	NX	100	a	Zanesville, Ohio	7 am-9 pm
WIBU	...	250	a	Povnette, Wis.	.....
WINN	P	100(.25)	z	Louisville, Ky.	.....
WJBY	E	250	a	Gadsden, Ala.	8 am-10:30 pm
WJEJ	...	100	a	Hagerstown, Md.	M, W, F, 7 am-9:30 pm; Tu, Th 7 am-11 pm
WJIM	B	250	z	Lansing, Mich.	7:15 am-12:30 am
WJLS	...	250	z	Beckley, W. Va.	.....
WJMC	D	250	z	Rice Lake, Wis.	.....
WJTN	B	250	a	Jamestown, N. Y.	7:30 am-midnight
WJW	...	250	a	Akron, Ohio	6:30 am-11 pm
WKOK	...	100	a	Sunbury, Pa.	6 am-midnight
WLOK	D	100	a	Lima, Ohio	6 am-5:15 pm
WMAFG	C	250	a	Hibbing, Minn.	7:30 am-10 pm
WOCB	P	250	z	Hyannis, Mass.	.....
WOMT	...	100	a	Manitowoc, Wis.	.....
WPAX	...	250	a	Thomasville, Ga.	8 am-6 pm
WPID	P	250	z	Petersburg, Va.	.....
WRAL	M	250	z	Raleigh, N. C.	6 am-1 am
WSAY	...	250	a	Rochester, N. Y.	7 am-12:30 am
WSBC	G4	250	a	Chicago, Ill.	6 am-midnight
WSIX	M	250	a	Nashville, Tenn.	7 am-1 am
WSNJ	...	250	a	Bridgeton, N. J.	From 6 am
WSOC	MN	100(.25)	a	Charlotte, N. C.	7 am-midnight
WTAX	...	100	a	Springfield, Ill.	.....
WTMA	...	250	z	Charleston, S. C.	.....
XEAT	...	250	a	Parral, Chih.	11 am-9 pm
XEE	...	50	a	Durango, Dgo.	.....
XEFV	...	50	a	Juarez, Chih.	.....
XETH	...	100	a	Puebla, Pue.	.....

1220 kcs. (245.8 m.)



KFKU	a	1000(5)	a	Lawrence, Kans.	3:30-7:30 pm
KTMS	BE	500	z	Santa Barbara, Calif.	.....
KTW	S2	1000	a	Seattle, Wash.	Thursday, 10:30 pm-1 am
KWSC	2	1000(5)	a	Pullman, Wash.	Daily exc. Thurs, 9:45 am-12:30 am; Thurs, 9:45 am-10:30 pm
TIGPH	1225	1000	b	San Jose, C. Rica	.....
WCAD	D	500	a	Canton, N. Y.	12:30-4 pm
WCAE	MR	1000(5)	a	Pittsburgh, Pa.	7 am-2:30 am
WDAE	C	1000(5)	a	Tampa, Fla.	7:30 am-midnight
WGNY	D	250	a	Newburgh, N. Y.	.....
WREN	aB	1000(5)	a	Lawrence, Kans.	8 am-7 pm
XEBL	...	500	z	Mazatlan, Sin.	.....
XEDA	...	200	z	Mexico City, D. F.	.....
XETF	...	12	a	Veracruz, Ver. C.	.....

1280 kcs. (234.2 m.)

CMKO	..	200	z	Holguin, Cuba	....
KFBB	..	1000(5)	a	Great Falls, Mont.	10 am-1 am
KLS	..	250	a	Oakland, Calif.	....
WCAM	..	500	a	Camden, N. J.	Silent
WCAP	2	500	a	Asbury Park, N. J.	10:30 am-4 pm; 8 pm-midnight
WDOD	C	1000(5)	b	Chattanooga, Tenn.	7:30 am-12:30 am
WIBA	N	1000(5)	a	Madison, Wis.	8 am-1 am
WORC	C	500	a	Worcester, Mass.	8 am-midnight
WRR	M	500	a	Dallas, Texas	8 am-midnight
WTNJ	2	500	a	Trenton, N. J.	....
XEKR	..	100	z	Mexico City, D. F.	....
XEMX	A	100	z	Mexico City, D. F.	....

1290 kcs. (232.4 m.)

CMCG	...	200	a	Havana, Cuba	7 am-midnight
KDYL	R	1000(5)	a	Salt Lake City, Utah	8 am-3 am
KLCN	D	100	a	Blytheville, Ark.	....
KTRH	C	1000(5)	a	Houston, Texas	7:30 am-3:30 am
WATR	..	250	a	Waterbury, Conn.	From 8 am
WEBC	N	1000(5)	a	Duluth, Minn.	8 am-1 am
WJAS	C	1000(5)	a	Pittsburgh, Pa.	7:30 am-12:30 am
WJHP	P	250	z	Jacksonville, Fla.	9:30 am-LS
WNBZ	D	100	a	Saranac Lake, N. Y.	6:30 am-11:30 pm
WNEL	...	1000(2.5)	a	San Juan, Puerto Rico	....

1300 kcs. (230.6 m.)

KALE	M	1000	a	Portland, Ore.	9:15 am-3 am
KFAC	..	1000	a	Los Angeles, Calif.	24 hours daily
KFH	..	1000(5)	a	Wichita, Kans.	7 am-1 am
WBBR	2	1000	a	Brooklyn, N. Y.	From 6:30 am
WEVD	2	1000	a	New York, N. Y.	7 am-4 am
WFBC	N	1000(5)	a	Greenville, S. C.	6:45 am-midnight
WHAZ	2	1000	a	Troy, N. Y.	6 pm-midnight
WHBL	...	250(1)	g	Sheboygan, Wis.	8 am-midnight

1310 kcs. (228.9 m.)

CHK	...	50	a	Charlottetown, P. E. I.	....
CJKL	..	100	a	Kirkland Lake, Ont.	....
CJLS	..	100	a	Yarmouth, N. S.	....
CKCV	F	100	a	Quebec, P. Q.	7:55 am-11:30 pm
CMKE	?	100	z	Manzanillo, Cuba	....
KAND	M	100	a	Corsicana, Texas	From 7 am
KARM	C	250	a	Fresno, Calif.	9 am-3 am
KBND	..	250	z	Bend, Ore.	....
KCKN	E	250	a	Kansas City, Kans.	7 am-1 am
KCRJ	E	250	a	Jerome, Ariz.	....
KFPL	..	100(.25)	f	Dublin, Texas	7 am-10:45 am
KFYO	M	100(.25)	a	Lubbock, Texas	8 am-10:15 pm
KGEZ	..	100	a	Kalispell, Mont.	9 am-11 pm
KGFW	..	250	a	Kearney, Nebr.	7 am-10 pm
KHUB	..	250	a	Watsonville, Calif.	From 9 am
KOCY	..	250	a	Oklahoma City, Okla.	From 7:45 am
KOME	EM	250	z	Tulsa, Okla.	....
KPDN	D	100	a	Pampa, Texas	7 am-6:15 pm
KRBA	D	250	a	Lufkin, Texas	7:30 am-1 am
KRMD	..	250	a	Shreveport, La.	7 am-12:15 am
KROC	EN	250	a	Rochester, Minn.	....
KRRV	DMXZ	250	a	Sherman, Texas	10 am-2 am
KSRO	..	250	a	Santa Rosa, Calif.	8:30 am-1 am
KSUB	..	100	a	Cedar City, Utah	....
KTSM	N	100(.25)	a	El Paso, Texas	....
KUJN	P	100	z	Grants Pass, Ore.	7 am-2 pm; 5-11 pm
KVIC	P	100(.25)	z	Victoria, Texas	7 am-10 pm
KVOL	..	250	a	Lafayette, La.	9 am-4 pm; 6:30-11:30 pm
KVOX	E	250	a	Moorhead, Minn.	7:30 am-LS
KVSF	C	100	a	Santa Fe, N. Mex.	7 am-11 pm
KWFC	P	100(.25)	z	Hot Springs, Ark.	10 am-2 am
KWOC	D	100	a	Poplar Bluff, Mo.	....
KWOS	..	250	a	Jefferson City, Mo.	8 am-8 pm
KXRO	M	250	a	Aberdeen, Wash.	....
TGI	..	250	d	Guatemala City, Guat.	7 am-midnight
WAML	..	250	a	Laurel, Miss.	....
WBEO	G	250	a	Marquette, Mich.	....
WBOW	NXZ	100(.25)	a	Terre Haute, Ind.	....
WBRE	N	250	a	Wilkes-Barre, Pa.	....

WBRK	M	250	a	Pittsfield, Mass.	7 am-1 am
WLS	L	100	a	Joliet, Ill.	8 am-9:30 pm
WCAI	M	250	a	Ashland, Ky.	6 am-11:30 pm
WDAH	S	100(.25)	a	El Paso, Texas	Silent
WEBR	B	250	a	Buffalo, N. Y.	7 am-midnight
WEMP	...	250	a	Milwaukee, Wis.	From 7:30 am
WEXL	...	50	a	Royal Oak, Mich.	8 am-4 am
WFBG	R	100	a	Altoona, Pa.	7 am-10:30 pm
WDFD	B	100	a	Flint, Mich.	7 am-midnight
WFIG	P	100(.25)	z	Sumter, S. C.	7 ...
WGAU	...	250	a	Athens, Ga.	7 am-midnight
WGH	K	250	a	Newport News, Va.	7 am-midnight
WGTM	X	100	a	Wilson, N. C.	....
WHAAT	4	100	a	Philadelphia, Pa.	....
WJPR	...	100(.25)	z	Greenville, Miss.	....
WLAK	...	250	z	Lakeland, Fla.	....
WLBC	...	250	a	Muncie, Ind.	7 am-midnight
WLBJ	...	250	z	Bowling Green, Ky.	....
WLNH	M	250	a	Laconia, N. H.	7 am-midnight
WMBO	...	250	a	Auburn, N. Y.	....
WMFF	B	250	a	Plattsburg, N. Y.	7:45 am-midnight
WNBH	MX	100(.25)	a	New Bedford, Mass.	7:30 am-11:15 pm
WRAW	...	100	a	Reading, Pa.	7 am-11 pm
WROL	N	250	a	Knoxville, Tenn.	Until 1 am
WSAJ	...	100	a	Grove City, Pa.	....
WSAV	P	100	z	Savannah, Ga.	....
WSGN	BE	100(.25)	a	Birmingham, Ala.	8 am-midnight
WSJS	C	250	a	Winston-Salem, N. C.	6 am-10 pm
WTAL	...	100(.25)	a	Tallahassee, Fla.	8 am-midnight
WTEL	4	100	a	Philadelphia, Pa.	8 am-midnight
WTJS	...	250	a	Jackson, Tenn.	7 am-11 pm
WTRC	...	250	z	Elkhart, Ind.	7 am-8:30 pm
XEAG	...	250	z	Cordoba, Ver. C.	....
XEAU	...	250	z	Tijuana, B. Cfa.	....
XEBO	...	25	z	Irapuato, Gto.	....
XEFW	...	300	a	Tampico, Tam.	....
XETB	...	500	a	Torreón, Coah.	....
XEX	...	500	a	Monterrey, N. L.	....

1320 kcs. (227.1 m.)

CMCR	...	200	z	Havana, Cuba	....
KGHF	B	500	a	Pueblo, Colo.	9 am-1 am
KGMB	CMZ	1000	a	Honolulu, Hawaii	1:30 am-6 pm
KID	...	500(1)	a	Idaho Falls, Idaho	From 6 am
KRNT	C	1000(5)	a	Des Moines, Iowa	6:30 am-1 am
WADC	N	1000(5)	a	Akron, Ohio	7 am-1 am
WORK	R	1000	a	York, Pa.	8 am-10 pm
WSMB	R	1000(5)	a	New Orleans, La.	....

1330 kcs. (225.4 m.)

KGB	M	1000	a	San Diego, Calif.	10 am-4 am
KMO	M	1000	a	Tacoma, Wash.	9 am-3 am
KRIS	MN	500	a	Corpus Christi, Tex.	7:30 am-midnight
KSCJ	N	1000(5)	a	Sioux City, Iowa	7 am-2 am
WDRC	C	1000(5)	g	Hartford, Conn.	7 am-midnight
WSAI	MN	1000(5)	a	Cincinnati, Ohio	6 am-1 am
WTAQ	C	1000(5)	a	Green Bay, Wis.	8 am-1 am

1340 kcs. (223.7 m.)

KDTH	DP	500	z	Dubuque, Iowa	....
KGIR	EN	1000(5)	a	Butte, Mont.	....
KGNO	...	250(1)	b	Dodge City, Kans.	8:30 am-midnight
WCOA	N	500(1)	a	Pensacola, Fla.	....
WFEA	MN	500(1)	a	Manchester, N. H.	8 am-1 am
WFNC	DP	250	z	Fayetteville, N. C.	....
WSPD	R	1000(5)	a	Toledo, Ohio	6 am-1 am
XEAP	...	50	z	Obregon, Son.	....
XEBJ	...	100	a	Victoria, Tam.	....
XEBS	...	200	z	Mexico City, D. F.	....
XEBW	...	250	a	Chihuahua, Chih.	....
XEDH	...	200	z	Villa Acuna, Coah.	Until 4 am
XEFC	...	100	a	Merida, Yuc.	....
XELW	...	250	z	Guadalajara, Jal.	....

1350 kcs. (222.1 m.)

CMCA	...	200	a	Havana, Cuba	....
KIDO	N	1000(.25)	a	Boise, Idaho	9 am-2 am

KWK	BM	1000(5)	a	St. Louis, Mo.	6:30 am-1 am
WAWZ	2	1000	a	Zarephath, N. J.	6 am-8:45 am; 6-7:30 pm.
WBNX	2	1000	a	New York, N. Y.	...
WMBG	RX	500	a	Richmond, Va.	7 am-midnight

1360 kcs. (220.4 m.)

CMJH	...	200	d	Ciego de Avila, Cuba	....
KCRJ	EM	250	a	Enid, Okla.	8 am-11 pm
KGER	...	1000	a	Long Beach, Calif.	9 am-3 am
KLPM	...	500(1)	a	Minot, N. Dak.	....
KSLM	M	500	a	Salem, Ore.	10 am-1 am
WCSC	N	500(1)	a	Charleston, S. C.	7 am-midnight
WFBL	C	1000(5)	a	Syracuse, N. Y.	6 am-1 am
WGES	2	500(1)	a	Chicago, Ill.	8 am-9 pm
WQBC	D	1000	a	Vicksburg, Miss.	....
WBSB	C2	500	a	South Bend, Ind.	....

1370 kcs. (218.8 m.)

CFAR	...	100	a	Flin Flon, Man.	8 am-2:15 pm; 6-10 pm
CFOS	...	100	z	Owen Sound, Ont.	....
CKCW	F	100	a	Moncton, N. B.	....
CKRN	...	250	z	Rouyn, P. Q.	....
CMGE	...	200	a	Cardenas, Cuba	10 am-10:30 pm
HIZ	...	75	z	Trujillo, D. R.	....
KEEN	3	100	a	Seattle, Wash.	3 pm-1 am
KELD	X	100	z	El Dorado, Ark.	....
KERN	EN	100	a	Bakersfield, Calif.	11 am-3 am
KFGO	D	100	a	Boone, Iowa	7 am-2 pm
KFRO	DMXZ	250	a	Longview, Texas	7:45 am-LS
KGFL	4	100	a	Roswell, N. Mex.	From 9 am
KGKL	M	250	a	San Angelo, Texas	....
KICA	4	100	a	Clovis, N. Mex.	9 am-11 pm
KIUN	...	100	a	Pecos, Texas	8 am-10 pm
KIUF	M	250	a	Durango, Colo.	10 am-11 pm.
KMAC	5	250	a	Galveston, Tex.	8 am-1 am
KOBH	...	250	a	San Antonio, Tex.	8 am-9 pm
KOKO	...	100	a	Rapid City, S. Dak.	8 am-midnight
KONO	5	250	a	La Junta, Colo.	8 am-11:30 pm
KORN	P	100(.25)	a	San Antonio, Tex.	7 am-11 pm
KRE	...	250	z	Fremont, Nebr.	....
KRKO	3	50	a	Berkeley, Calif.	24 hours daily
KRMG	...	250	a	Everett, Wash.	10 am-3 pm; 7-10 pm
KTEM	M	250	a	Jamestown, N. Dak.	....
KTOK	EMN	250	a	Temple, Texas	7 am-1 am
KTSW	...	250	a	Oklahoma City, Okla.	....
KTUC	C	250	a	Emporia, Kans.	9 am-1 am
KUJ	...	100(.25)	a	Tucson, Ariz.	9:30 am-1 am
KVFD	LP	100(.25)	a	Walla Walla, Wash.	....
KVGB	...	100	z	Fort Dodge, Iowa	....
KVRS	...	250	z	Great Bend, Kans.	....
KWYO	...	250	a	Rock Springs, Wyo.	....
WABY	BM	100(.25)	a	Sheridan, Wyo.	9 am-midnight
WAGF	D	250	a	Albany, N. Y.	7 am-midnight
WATL	...	250	a	Dothan, Ala.	9 am-LS
WBLK	N	250	a	Atlanta, Ga.	7 am-1 am
WBNY	2	250	a	Clarksburg, W. Va.	6 am-11:30 pm
WBTH	...	250	z	Buffalo, N. Y.	7:30 am-midnight
WBTM	...	100(.25)	z	Williamson, W. Va.	From 6 am
WCBM	...	250	a	Danville, Va.	7 am-10 pm
WCNC	...	250	a	Baltimore, Md.	....
WCOS	...	100(.25)	z	Elizabeth City, N. C.	7 am-11 pm
WDAS	...	250	z	Columbia, S. C.	....
WDWS	...	100(.25)	a	Philadelphia, Pa.	8 am-midnight
WEOA	C	250	a	Champaign, Ill.	7 am-midnight
WFOR	...	100	a	Evansville, Ind.	8 am-1 am
WFST	P	100(.25)	a	Hattiesburg, Miss.	8 am-midnight
WGBR	X	100	z	Ft. Lauderdale, Fla.	....
WGL	N	250	z	Goldsboro, N. C.	....
WGRC	M	250	a	Fort Wayne, Ind.	....
WHBO	...	100	a	New Albany, Ind.	From 7 am
WHDF	...	250	a	Memphis, Tenn.	8 am-11:30 pm
WHKY	P	100(.25)	z	Calumet, Mich.	10:30 am-6:30 pm
WHLB	C	250	z	Hickory, N. C.	....
WHLS	...	250	a	Virginia, Minn.	....
WHTR	P	100(.25)	a	Port Huron, Mich.	6 am-7:30 pm
WHUB	P	100(.25)	z	Spartanburg, S. C.	....
WIBM	B	250	z	Cookeville, Tenn.	....
WISE	N	100	a	Jackson, Mich.	6:30 am-12:30 am
			z	Asheville, N. C.	....

WJAC	R	250	a	Johnstown, Pa.	.....
WLLH	Sy	10-100	a	Lawrence, Mass.	7:30 am-midnight
WLLH	MSy	250	a	Lowell, Mass.	7:30 am-midnight
WMAN	DP	250	z	Mansfield, Ohio	.....
WMBR	C	250	a	Jacksonville, Fla.	7:30 am-midnight
WMFD	...	100(.25)	a	Wilmington, N. C.	7:30 am-7 pm.
WMGA	P	250	z	Moultrie, Ga.	.....
WMIN	...	250	a	St. Paul, Minn.	7 am-1 am
WMSL	DE	100	a	Decatur, Ala.	8 am-6:30 pm
WOC	C	250	a	Davenport, Iowa	6 am-midnight
WPAY	...	100	a	Portsmouth, Ohio	7 am-10:15 pm
WPRa	XX	1000(.25)	a	Mayaguez, P. R.	.....
WRAK	...	250	a	Williamsport, Pa.	7:30 am-9 pm
WRDO	MN	100	a	Augusta, Maine	8 am-11:15 pm
WRJN	...	250	a	Racine, Wis.	8:45 am-midnight
WSAU	...	250	a	Wausau, Wis.	7 am-11:15 pm
WSLB	P	250	z	Ogdensburg, N. Y.	.....
WSVS	D2	50	b	Buffalo, N. Y.	8:30 am-10 pm
WTSP	P	100(.25)	z	St. Petersburg, Fla.	.....
XECZ	...	100	z	San Luis Potosi, S. L. P.	.....
XEI	...	125	a	Morelia, Micho.	.....
XELZ	...	100	z	Mexico City, D. F.	.....

1380 kcs. (217.3 m.)

CMCW	...	200	d	Havana, Cuba	6:55 am-midnight
KOH	C	500	a	Reno, Nev.	11 am-3 am
KOV	...	500(1)	b	Pittsburgh, Pa.	7 am-10 pm
WALA	CX	500(1)	a	Mobile, Ala.	8:30 am-midnight
WING	N	250(.5)	a	Dayton, Ohio	6 am-7:30 pm; 10 pm-1 am
WKBH	C	1000	a	La Crosse, Wis.	7 am-midnight
WNBC	B	250(1)	a	New Britain, Conn.	7 am-midnight

1390 kcs. (215.7 m.)

CMJC	...	200	z	Camaguey, Cuba	.....
KABR	...	500(1)	a	Aberdeen, S. Dak.	8 am-11 pm
KLRA	...	1000(.5)	a	Little Rock, Ark.	.....
KOY	C	1000	g	Phoenix, Ariz.	9 am-12:15 am
KRLC	...	250	a	Lewiston, Idaho	9:30 am-12:30 am
WHK	KBM	1000(.5)	a	Cleveland, Ohio	7 am-midnight
WODM	AD	1000	f	St. Albans, Vt.	6 am-LS
XEM	...	500	z	Chihuahua, Chih.	.....

1400 kcs. (214.2 m.)

CMAR	...	200	z	Pinar del Rio, Cuba	.....
CMKR	...	200	z	Santiago de Cuba	.....
KLO	B	5000	a	Ogden, Utah	9:30 am-1:30 am
KTUL	C	5000	a	Tulsa, Okla.	7:30 am-1:30 am
TGX	...	.....	d	Guatemala City, Guat.	.....
WARD	2	500	a	Brooklyn, N. Y.	3:45-6 pm
WBBC	D	500	a	Brooklyn, N. Y.	7-11 am; 7:30-9 pm
WHDL	D	250	a	Olean, N. Y.	.....
WIRE	MR	5000	a	Indianapolis, Ind.	7:30 am-1 am
WLTH	2	500	a	New York, N. Y.	Silent
WVFW	2	500	a	Brooklyn, N. Y.	1:30-3:45 pm; 9-10:30 pm
XEA	...	250	z	Campeche, Cam.	.....
XEAJ	...	100	z	Navojoa, Son.	.....
XEDM	...	100	z	Torreón, Coah.	.....
XEDS	...	250	z	Mazatan, Sin.	.....

1410 kcs. (212.5 m.)

CKFC	2	50	a	Vancouver, B. C.	.....
CKMO	2	100	a	Vancouver, B. C.	From 11 am
CMCQ	...	200	a	Havana, Cuba	7 am-11 pm
KFJM	...	500(1)	a	Grand Forks, N. Dak.	8 am-10 pm
KGNC	N	1000(.25)	a	Amarillo, Texas	From 7 am
KMED	N	250	b	Medford, Ore.	.....
WAAB	EM	1000	a	Boston, Mass.	From 7 am
WBCM	...	500(1)	a	Bay City, Mich.	9 am-12:30 am
WHIS	...	500(1)	a	Bluefield, W. Va.	5 am-10 pm
WROK	M	500(1)	a	Rockford, Ill.	7:30 am-midnight
WSFA	CE	500(1)	a	Montgomery, Ala.	7:30 am-midnight

1420 kcs. (211.1 m.)

CBY	F	100	a	Toronto, Ont.	.....
CHLN	...	100	z	Three Rivers, P. Q.	.....

CKCA	F	100(.25)
CKLN	F	100
CMJP	...	200
KABC	M	250
KATE	E	250
KBPS	M	100
KCMC	4	250
KDNT	D	100
KEUB	...	100
KFAM	EN	250
KFIZ	E	100
KGFF	EM	250
KGIW	3	100
KGLU	...	250
KIDW	3	100
KLBM	...	250
KNET	D	100
KORE	MX	100
KRBC	M	250
KRBM	E	100(.25)
KRIC	...	250
KRLH	...	100
KSAN	...	250
KTRI	...	100(.25)
KVAK	D	100
KWAL	P	100(.25)
KWBG	X	100
KXL	4	250

WACO	CM	250
WAGM	...	100
WAPO	N	250
WAL	...	250
WCBS	...	250
WCHV	...	250
WEED	...	250
WELL	B	100
WFMJ	...	100
WGNC	...	250
WGPC	...	100
WHFC	...	250
WHMA	...	100
WILM	...	250
WJMS	...	250
WKIP	P	250
WLAP	M	100(.25)
WLEU	B	250
WLPM	P	250
WMAS	C	250
WMBC	...	250
WMBH	...	250
WMBS	...	250
WMFJ	...	100
WMSD	X	100
WNOE	...	250
WPAD	...	250
WPAR	C	100
WPRP	...	100(.25)
WSLI	...	250
WSPB	P	100(.25)

a	Kenora, Ont.	...
a	Nelson, B. C.	10 am-3 am
a	Moron, Cuba	...
a	San Antonio, Texas	7 am-12:15 am
a	Albert Lea, Minn.	From 7:30 am
a	Portland, Ore.	2-3:30 pm; 7-8 pm
a	Texarkana, Texas	8 am-midnight
a	Denton, Texas	8 am-LS
a	Price, Utah	9:30 am-midnight
a	St. Cloud, Minn.	8 am-10 pm
a	Fond du Lac, Wis.	...
a	Shawnee, Okla.	8 am-10 pm
a	Alamosa, Colo.	9:30 am-10:30 pm
a	Safford, Ariz.	...
a	Lamar, Colo.	9 am-8 pm
z	La Grande, Ore.	10 am-?
a	Palestine, Texas	...
a	Eugene, Ore.	From 10 am
a	Abilene, Texas	8 am-10 pm
z	Bozeman, Mont.	...
z	Beaumont, Texas	From 8 am
a	Midland, Texas	...
a	San Francisco, Calif.	24 hours daily
f	Sioux City, Iowa	7 am-midnight
z	Atchison, Kans.	...
z	Wallace, Idaho	...
a	Hutchinson, Kans.	8 am-10 pm
b	Portland, Ore.	9 am-2 pm; 3:30-7 pm; 8 pm-3:15 am.

b	Waco, Texas	9 am-1 am
a	Presque Isle, Maine	11 am -7 pm
a	Chattanooga, Tenn.	7 am-7 pm
a	Hazleton, Pa.	9 am-10 pm
a	Springfield, Ill.	8 am-11 pm
a	Charlottesville, Va.	7 am-midnight
a	Rocky Mount, N. C.	7 am-8 pm
a	Battle Creek, Mich.	7:30 am-midnight
a	Youngstown, Ohio	6:30 am-11 pm
z	Gastonia, N. C.	6 am-11 pm
a	Albany, Ga.	...
a	Cicero, Ill.	7 am-1 am
a	Anniston, Ala.	...
a	Wilmington, Del.	...
a	Ironwood, Mich.	8 am-8:30 pm
z	Poughkeepsie, N. Y.	...
a	Lexington, Ky.	8 am-11 pm
a	Erie, Pa.	...
z	Suffolk, Va.	...
a	Springfield, Mass.	7 am-midnight
a	Detroit, Mich.	7:30 am-midnight
a	Joplin, Mo.	7 am-midnight
a	Uniontown, Pa.	6 am-6 pm
a	Daytona Beach, Fla.	8 am-11 pm
a	Muscle Shoals City, Ala.	8 am-11 pm
a	New Orleans, La.	On all night
a	Paducah, Ky.	7 am-midnight
a	Parkersburg, W. Va.	From 6 am
a	Ponce, Puerto Rico	...
a	Jackson, Miss.	8 am-11 pm
z	Sarasota, Fla.	...

1430 kcs. (209.7 m.)

CJGX	F	1000
CMKZ	...	200
KGNF	D	1000
KINY	X	250
KSO	BM	1000(5)
WBNS	C	1000(5)
WHEC	C	500(1)
WHP	C	1000(5)
WMPS	B	500(1)
WOKO	CK	500(1)
XERH	...	300

a	Yorkton, Sask.	8:30 am-12:30 am
z	Palma Soriano, Cuba	...
a	North Platte, Nebr.	8 am-6:15 pm
a	Juneau, Alaska	Starts at Noon
a	Des Moines, Iowa	7:30 am-2 am
a	Columbus, Ohio	6 am-1 am
a	Rochester, N. Y.	7 am-midnight
a	Harrisburg, Pa.	6:30 am-midnight
a	Memphis, Tenn.	8 am-12:30 am
a	Albany, N. Y.	8 am-1 am
z	Mexico City, D. F.	...

1440 kcs. (208.2 m.)

CKGB	F	100
CMBY	...	200
KDFN	...	500
KELA	M	1000

a	Timmins, Ont.	11 am-11:30 pm
a	Havana, Cuba	7:55 am-11:30 pm
a	Casper, Wyo.	...
a	Centralia, Wash.	9:45 am-3 am

KXYZ BM 1000
 WBIG C 1000(5)
 WBCA A 500
 WMBD C 1000(5)
 WSAN aN 500
 XEFI ... 1000

a Houston, Texas
 a Greensboro, N. C.
 a Allentown, Pa.
 a Peoria, Ill.
 a Allentown, Pa.
 a Chihuahua, Chih.

On all night
 6 am-11:30 pm
 6:30 am-11:30 pm
 6:30 am -midnight
 1-11:30 pm

1450 kcs. (206.8 m.)

CFCT ... 500
 CHGS ... F 50
 CMHM ... 200
 HRN ... 500

a Victoria, B. C.
 f Summerside, P. E. I.
 z Cienfuegos, Cuba
 b Tegucigalpa, Hond.

10:45 am-12:15 am
 6:30 am-10 pm

 Noon-1 pm; 2-3 pm; 7-10:30 pm

KCMO ... 1000
 KG CX ... 1000
 KIEM M 500(1)
 KTBS NZ 1000
 TGO ... 200
 WAGA B 500(1)
 WGAR C 1000(5)
 WHOM ... 250
 WSAR M 1000
 XEF ... 100

a Kansas City, Mo.
 a Wolf Point, Mont.
 a Eureka, Calif.
 a Shreveport, La.
 a Quezaltenango, Guat.
 a Atlanta, Ga.
 a Cleveland, Ohio
 a Jersey City, N. J.
 f Fall River, Mass.
 a Juarez, Chih.

7 am-2 am

 10 am-1 am
 7:30 am-1 am

 7:15 am-2 am
 6:30 am-midnight
 7 am-midnight
 7:30 am-midnight

1460 kcs. (205.4 m.)

CMKF ... 250
 KSTP RX 10000(25)
 WJSV CX 10000

z Holguin, Cuba
 z St. Paul, Minn.
 a Washington, D. C.

...
 7 am-2 am
 6 am-1 am

1470 kcs. (204 m.)

CMCX ... 200
 HIBQ 1475 100
 KGA BM 5000
 WLAC 5000

z Havana, Cuba
 z Trujillo, D. R.
 a Spokane, Wash.
 a Nashville, Tenn.

9 am-11 pm

1480 kcs. (202.6 m.)

CMHX ... 200
 KOMA C 5000
 WHIP D 5000
 WKBW C 5000

a Cienfuegos, Cuba
 a Oklahoma City, Okla.
 z Hammond, Ind.
 a Buffalo, N. Y.

...
 7:30 am-1 am
 7:30 am-5:30 pm
 8 am-1 am

1490 kcs. (201.2 m.)

CMKQ E 1000
 KFBK EKN 10000
 WCKY C 50000
 XECH ... 250
 XEDR ... 100

z Santiago de Cuba
 a Sacramento, Calif.
 a Cincinnati, Ohio
 z Toluca, Mex.
 z Guaymas, Son.

...
 10 am-3 am
 6 am-2 am

1500 kcs. (199.9 m.)

CJIC F 100
 CMOX ... 200
 KAWM ... 100
 KBIX EM 100
 KBKR P 100(.25)
 KBST M 100
 KDAL C 100
 KDB EM 100(.25)
 KDRO ... 100(.25)
 KFDA M 100
 KGFI ... 100(.25)
 KGKB M 250
 KGKY ... 250
 KNEL D 250
 KNOV M 250
 KOTN D 100
 KOVC ... 250
 KPAB ... 250
 KPLC ... 250
 KPLT M 250
 KPQ M 250
 KRNR M 100(.25)
 KROD P 100
 KSAL XZ 100(.25)

a Sault Ste. Marie, Ont.
 a Havana, Cuba
 a Gallup, N. Mex.
 a Muskogee, Okla.
 z Baker, Ore.
 a Big Spring, Texas
 a Duluth, Minn.
 a Santa Barbara, Calif.
 z Sedalia, Mo.
 z Amarillo, Texas
 a Brownsville, Texas
 a Tyler, Texas
 a Scottsbluff, Nebr.
 a Brady, Texas
 a Austin, Texas
 a Pine Bluff, Ark.
 a Valley City, N. Dak.
 a Laredo, Texas
 a Lake Charles, La.
 a Paris, Texas
 a Wenatchee, Wash.
 a Roseburg, Ore.
 z El Paso, Texas
 z Salina, Kans.

10 am-10 pm
 8 am-midnight
 10 am-10 pm
 8 am-11 pm

 7:30 am-midnight
 10 am-3 am

 8 am-midnight
 3 am-1 am
 8:30 am-11 pm
 8 am-6 pm

 8 am-LS
 8 am-10 pm
 On all night

KSAM D 250
KTOH P 100(.25)
KUTA M 100
KVOE N 100
KVWC ... D 250
KWEV ... 100
KXO M 100
KYCA P 100(.25)
KYSM EN 250
WCNW Z 100(.25)
WDAN ... C 250
WDNC ... 250
WGAL N 250
WGIL D 250
WGKV N 100
WGTC DP 250
WHBB ... 100
WJBK ... 250
WKAT ... 250
WKBB CY 250
WKBV ... 100(.25)
WKBZ ... 250
WKEU D 100
WKNY DP 100
WMEX ... 100(.25)
WMJM P 100(.25)
WMOG P 100(.25)
WNBK C 250
WNLC M 100
WOLF P 100
WOMI ... 250
WOPI ... 250
WRDW ... C 250
WRGA ... 250
WRTD B 100
WSTP M 250
WSYB XM 100
WTMC ... 100
WTMV ... 250
WWRL Z 100(.25)
WWSW ... 250
XEOK ... 400

z Huntsville, Texas
z Lihue, Hawaii
a Salt Lake City, Utah 9 am-2 am
a Santa Ana, Calif. Noon-2 am
z Vernon, Texas
z Hobbs, N. Mex. 9 am-LS
a El Centro, Calif. 11 am-midnight
z Prescott, Ariz.
a Mankato, Minn. 7 am-3 am
a Brooklyn, N. Y. 9 am-midnight
a Danville, Ill. From 7:30 am
a Durham, N. C. 7:30 am-12:30 am
a Lancaster, Pa.
a Galesburg, Ill.
z Charleston, W. Va. From 6 am
z Greenville, N. C.
a Selma, Ala. 7:30 am-?
a Detroit, Mich. On all night
z Miami Beach, Fla.
a E. Dubuque, Ill. 9:30 am-9:30 pm
a Richmond, Ind. 7 am-10 pm
a Muskegon, Mich.
a Griffin, Ga.
z Ulster Twp., N. Y.
a Boston, Mass. From 8 am
z Cordele, Ga.
z Brunswick, Ga.
a Binghamton, N. Y. From 6 am
a New London, Conn. From 7:30 am
z Syracuse, N. Y.
a Owensboro, Ky. 6 am-midnight
a Bristol, Tenn. 6 am-10 pm
a Augusta, Ga. 7 am-9 pm
a Rome, Ga. 8 am-11 pm
a Richmond, Va. 7 am-1 am
a Salisbury, N. C.
a Rutland, Vt. 8:30 am-9 pm
z Ocala, Fla.
a E. St. Louis, Ill. From 6 am
a Woodside, N. Y. 8 am-midnight
a Pittsburgh, Pa. 24 hours daily
z Mexico City, D. F.

1510 kcs. (198.6 m.)

CFRC F 100
CKCR ... 100

a Kingston, Ont. Noon-11 pm
a Waterloo, Ont. 8 am-11 pm

1520 kcs. (197.3 m.)

TGW ... 5000

e Guatemala City, Guat. 7:45 am-9 am; 12:45-3:45 pm;
 7:30 pm-12:15 am

1530 kcs. (196 m.)

CMC ... 200
KITE ... 1000
WBRY CM 1000

z Havana, Cuba
a Kansas City, Mo. 6 am-3 am
a Waterbury, Conn. 8:30 am-midnight

1550 kcs. (193.4 m.)

KPMC M 1000
WQXR X 1000

a Bakersfield, Calif. 10 am-2 am
a New York, N. Y. 7:30 am-midnight

1560 kcs. (112.2 m.)

CMBF ... 5000

z Havana, Cuba 7:55 am-midnight

1580 kcs. (189.8 m.)

CMRT ... 200

z Guines, Cuba

1600 kcs. (187.4 m.)

CMBH ... 5000

z Havana, Cuba

CHANGES

(Continued From Page 62)

1310	KROC	Rochester, 250 from 100(.25)
1310	WGAU	Athens, 250 from 100(.25)
1310	WLBj	Bowling Green, 250 from 100(.25)
1310	WLNH	Laconia, 250 from 100
1310	WROL	Knoxville, 250 from 100(.25)
1310	WTJS	Jackson, 250 from 100(.25)
1370	KMAC	San Antonio, 250 from 100(.25)
1370	KONO	San Antonio, 250 from 100
1370	KTSW	Emporia, 250 from 100
1370	KVRS	Rock Springs, 250 from 100(.25)
1370	WBNY	Buffalo, 250 from 100(.25)
1370	WCNC	Elizabeth City, 250 from 100(.25)
1370	WLLH	Lowell, 250 from 100(.25)
1370	WMBR	Jacksonville, 250 from 100(.25)
1370	WMGA	Moultrie, 250 from 100(.25)
1370	WOC	Davenport, 250 from 100(.25)
1400	KLO	Ogden, 5000 from 1000(5)
1400	KTUL	Tulsa, 5000 from 1000(5)
1400	WIRE	Indianapolis, 5000 from 1000(5)
1420	KABC	San Antonio, 250 from 100(.25)
1420	KATZ	Albert Lea, 250 from 100(.25)
1420	KGLU	Safford, 250 from 100(.25)
1420	KLBM	La Grande, 250 from 100(.25)
1420	KSAN	San Francisco, 250 from 100
1420	WAO	Chattanooga, 250 from 100(.25)
1420	WAZL	Hazleton, 250 from 100
1420	WCBS	Springfield, 250 from 100(.25)
1420	WILM	Wilmington, 250 from 100
1420	WLEU	Erie, 250 from 100(.25)
1500	KGKB	Tyler, 250 from 100(.25)
1500	KOVC	Valley City, 250 from 100(.25)
1500	KPLT	Paris, 250 from 100(.25)
1500	KYSM	Mankato, 250 from 100(.25)
1500	WOPI	Bristol, 250 from 100
1490	WCKY	Location Cincinnati, Ohio, from Co- vinton, Ky.
1500	WKNY	Ulster Twp., N. Y., from Kingston
1210	WHIZ	Zanesville, from WALR
1210	WPID	Petersburg, from WPIV
1370	WMSL	Decatur, from WMFO
950	WHAL	Reinstated Saginaw, Mich.
660	KOWH	Network Omaha, to NBC Blue
1200	WENY	Elmira, new MBS
1210	WHIZ	Zanesville, new NBC
1310	KVSF	Santa Fe, new CBS
1310	WFBG	Altoona, new NBC Red
1340	WSPD	Toledo, Red, from Blue
1370	WTAC	Johnstown, NBC Red
1410	WROK	Rockford, new MBS
1420	CKLN	Nelson, new CBC
1310	WJPF	Deleted Herrin, Ill.
1530	WAKR	Akron, Ohio
560	WIS	Owner Liberty Life Ins. Co., Co- lumbia, S. C.

610	WCLE	United Brdcstg. Co., Cleve- land, Ohio
640	WHKC	United Brdcstg. Co., Colum- bus, Ohio
900	WLBL	State of Wis., Dept. of Agri- culture, Stevens Point, Wis.
1200	KHBC	Hawaiian Brdcstg. Sys., Hilo, Hawaii
1320	KGMB	Hawaiian Brdcstg. Sys., Honolulu, T. H.
1330	KMO	Carl E. Haymond, Tacoma, Wash.
1370	WISE	Harold, H. Thoms, Ashe- ville, N. C.
1390	WHK	United Brdcstg. Co., Cleve- land, Ohio
1500	WTMC	Ocala Brdcstg. Co., Inc., Ocala, Fla.

Permit to Change Power

590	WKZO	Kalamazoo, Mich., to 250(1).
610	KFRC	San Francisco, to 5 kw.
630	WPRO	Providence, to 1000(5).
710	KMPC	Beverly Hills, to 1000(5).
760	KXA	Seattle, to 1000.
770	KFAB	Lincoln, to 50000.
850	WKAR	E. Lansing, to 50000.
880	WRNL	Richmond, to 1000.
880	WSUI	Iowa City, to 1000(5).
890	KFNE	Shenandoah, to 1000(5).
890	WGBU	Ketchikan, to 1000.
940	WICA	Ashtabula, to 500.
990	XEK	Mexico City, to 500 w.
1120	KRSC	Seattle, to 1 kw.
1200	KVNU	Logan, to 250
1200	KVOS	Bellingham, to 250
1200	WMFR	High Point, to 250
1200	WOLS	Florence, to 250
1210	KANS	Wichita, to 250
1210	KFPW	Fort Smith, to 250
1210	WCOL	Columbus, to 250
1210	WHIZ	Zanesville, to 250
1310	KRRV	Sherman, to 1 kw.
1310	WBOM	Terre Haute, to 250
1310	WGTM	Wilson, to 250
1310	WNBH	New Bedford, to 250
1350	KWK	St. Louis to 5000
1350	WMBG	Richmond, to 1000(5)
1370	KELD	El Dorado, to 250
1370	KFRO	Longview, to 1 kw.
1370	WGBR	Goldsboro, to 250
1370	WPRA	Mayaguez, to 1000(2.5)
1380	WALA	Mobile, to 1 kw.
1420	KORE	Eugene, to 250
1420	KWBG	Hutchinson, to 250
1420	WMSD	Muscle Shoals City, to 250
1430	KINY	Juneau, to 1 kw.
1550	WQXR	New York, to 5 kw.

Permit to Change Frequency

770	KFAB	Lincoln, Nebr., to 1080.
1200	WJBL	Decatur, to 1310.
1210	KFPW	Fort Smith, to 1370
1210	WCOL	Columbus, to 1200
1260	KPAC	Port Arthur, to 1220
1310	KRRV	Sherman, to 880
1310	WBOW	Terre Haute, to 1200
1320	KGMB	Honolulu, to 590
1370	KFRO	Longview, to 1340
1370	WPRA	Mayaguez, to 780
1450	KTBS	Shreveport, to 620
1500	KSAL	Salina, to 1120

Stations Using Special Frequencies

Call	City	Assigned	Using
KTHS	Hot Springs	1040	1060
KWKH	Shreveport	850	1100
WTIC	Hartford	1060	1040

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Frequency is given in kilocycles in second column. For power and network affiliations, refer to the list of North American stations by Frequencies.

ALABAMA		El Dorado	San Bernardino	New Haven	Athens
	— KEJD 1370	Fort Smith	KFXM 1210	WEHI 980	— WGAU 1810
— WHMA 1420	— KFPW 1210	Hot Springs	San Diego	New London	— WAGA 1450
Birmingham	— KTHS 1080	— KRGB 1350	— KFSD 600	— WNLG 1500	— WATL 1870
— WAPI 1140	— KWFC 1310	San Francisco	— KGO 790	Waterbury	— WBBT 1080
— WBRC 930	Jonesboro	— KFRC 610	— KJBS 1070	WATR 1290	— WGBT 890
— WSGN 1310	— KBTM 1200	— KGO 790	— KPO 680	WBRY 1530	— WSB 740
Doatur	Little Rock	— KJBS 1070	— KKSAN 1430	DELAWARE	
— WMSL 1370	— KARK 890	— KKSAN 1430	— KSFO 560	Wilmington	— WRDW 1500
Dothan	— KGHJ 1200	— KSAN 1430	— KYA 1230	— WDEL 1120	— Brunswick 1500
— WAGF 1370	— KILRA 1390	— KSFO 560	San Jose	WILM 1420	— WMOG 1500
Gadsden	Pine Bluff	— KYA 1230	— KQW 1010	DISTRICT OF COLUMBIA	
WJBY 1210	— KOTN 1500	San Luis Obispo	— KQW 1010	Washington	— WRLB 1200
Huntsville	— KUOA 1260	— KQW 1010	— KQW 1010	— WJSP 1480	— WMGM 1500
— WBHP 1200	CALIFORNIA		— KQW 1010	— WMAL 650	— Griffin 1500
Mobile	Bakersfield	— KQW 1010	— KQW 1010	— WOL 1230	— WKET 1500
— WALA 1380	— KERN 1370	— KQW 1010	— KQW 1010	— WRC 950	— Macon 1180
— WMOB 1290	— KPNC 1550	— KQW 1010	— KQW 1010	FLORIDA	
Montgomery	— KRE 1370	— KQW 1010	— KQW 1010	Daytona Beach	— WMAZ 1180
— WCOV 1210	Beverly Hills	— KQW 1010	— KQW 1010	WMPJ 1420	— Mountrie 1370
— WSFA 1410	— KMPC 710	— KQW 1010	— KQW 1010	— Ft. Lauderdale 1370	— WMGA 1500
Selma	— KHSL 1260	— KQW 1010	— KQW 1010	— WPTL 1370	— Rome 1500
— WHBB 1500	— KXO 1500	— KQW 1010	— KQW 1010	— Ft. Myers 1210	— WRGA 1500
Musole Shoals	Eureka	— KQW 1010	— KQW 1010	— Gainesville 890	Savannah
City	— KIEM 1450	— KQW 1010	— KQW 1010	— WRUF 890	— WSAV 1310
— WMSD 1420	Fresno	— KQW 1010	— KQW 1010	— Jacksonville 900	— WTCO 1260
Tuscaloosa	— KARM 1310	— KQW 1010	— KQW 1010	— WJAX 900	— Thomasville 1210
— WJBD 1200	— KKMJ 580	— KQW 1010	— KQW 1010	— WJHP 1290	— WPAJ 1210
ALASKA		— KQW 1010	— KQW 1010	— WMBR 1370	— Waycross 1200
Anchorage	— KIEV 850	— KQW 1010	— KQW 1010	— Lakeland 1310	HAWAII
— KFQD 780	Long Beach	— KQW 1010	— KQW 1010	— MIAMI 1310	Hilo
Fairbanks	— KFOX 1250	— KQW 1010	— KQW 1010	— WIOD 610	— KHEC 1200
— KFAR 610	— KGBR 1390	— KQW 1010	— KQW 1010	— WMBF 610	— Honolulu 1200
Juneau	— KECA 780	— KQW 1010	— KQW 1010	— WQAM 560	— KGMB 1320
— KINY 1430	— KFAC 1300	— KQW 1010	— KQW 1010	— Miami Beach 1500	— KGU 750
Ketchikan	— KFT 640	— KQW 1010	— KQW 1010	— WKAT 1500	— Lihue 1500
— KGBU 900	— KFSG 1120	— KQW 1010	— KQW 1010	— Ocala 1200	IDAHO
ARIZONA		— KQW 1010	— KQW 1010	— WTMC 1500	Boise
Globe	— KFDV 1000	— KQW 1010	— KQW 1010	— Orlando 580	— KIDO 1350
— KWJB 1210	— KFVB 950	— KQW 1010	— KQW 1010	— Panama City 1200	— Idaho Falls 1320
Jerome	— KGFJ 1200	— KQW 1010	— KQW 1010	— WDFP 1200	— Lewiston 1390
— KCBJ 1310	— KHJ 900	— KQW 1010	— KQW 1010	— Pensacola 1200	— Nampa 1200
Lowell	— KMTR 570	— KQW 1010	— KQW 1010	— Sarasota 1370	— KFSD 1200
— KSNL 1200	— KNX 1050	— KQW 1010	— KQW 1010	— Tallahassee 1420	— Pocatello 900
Phoenix	— KRKD 1120	— KQW 1010	— KQW 1010	— Tampa 1310	— KSEI 900
— KOY 1390	— KYOS 1040	— KQW 1010	— KQW 1010	— WDAE 1220	— Twin Falls 1240
— KTAR 620	— KTRB 740	— KQW 1010	— KQW 1010	— WFLA 620	— KTFI 1240
Prescott	— KTVB 740	— KQW 1010	— KQW 1010	— West Palm Beach 1200	— Wallace 1430
— KYCA 1500	— KTVB 740	— KQW 1010	— KQW 1010	— WJNO 1200	ILLINOIS
Safford	— KTVB 740	— KQW 1010	— KQW 1010	— WTAL 1310	Aurora
— KGLU 1420	— KTVB 740	— KQW 1010	— KQW 1010	— Tampa 1310	— WMRO 1250
Tucson	— KTVB 740	— KQW 1010	— KQW 1010	— WDAE 1220	— Bloomington 1200
— KTUC 1370	— KTVB 740	— KQW 1010	— KQW 1010	— WFLA 620	— WJBC 1200
— KVOA 1260	— KTVB 740	— KQW 1010	— KQW 1010	— West Palm Beach 1200	— Carthage 1070
Yuma	— KTVB 740	— KQW 1010	— KQW 1010	— WJNO 1200	— WCAZ 1070
— KYUM 1210	— KTVB 740	— KQW 1010	— KQW 1010	— WTAL 1310	— Champaign 1370
ARKANSAS		— KTVB 740	— KQW 1010	— WTAL 1310	— WDWS 1370
Blytheville	— KTVB 740	— KQW 1010	— KQW 1010	— WTAL 1310	— Chicago 920
— KLEN 1290	— KTVB 740	— KQW 1010	— KQW 1010	— WTAL 1310	— WAAF 920
	— KTVB 740	— KQW 1010	— KQW 1010	— WTAL 1310	— WBBM 770
	— KTVB 740	— KQW 1010	— KQW 1010	— WTAL 1310	— WCBD 1080

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

WCFB	970
WCRW	1210
WEDC	1210
WENE	870
WGES	1380
WGN	720
WJJD	1180
WLS	870
WMAQ	870
WMBI	1080
WBSB	1210
Cleora	
WHFC	1420
Danville	
WDAN	1500
Decatur	
WJBL	1200
East Dubuque	
WKBB	1500
East St. Louis	
WTVY	1500
Galesburg	
WGIL	1500
Harrisburg	
WEBQ	1210
Joliet	
WCLS	1310
Pecora	
WMBD	1440
Quincy	
WTAD	900
Rockford	
WROK	1410
Rock Island	
WBBF	1240
Springfield	
WCBS	1420
WTAX	1210
Tuscola	
WJZ	1020
Urbana	
WILL	580

INDIANA

Anderson	
WBHU	1210
Eikhart	
WTRC	1310
Evansville	
WEOA	1370
WGBF	390
Fort Wayne	
WGL	1370
WOWO	1160
Gary	
WIND	560
Hammond	
WHIP	1480
WWAE	1200
Indianapolis	
WFBM	1230
WIBC	1050
WIRE	1400
Munole	
WIBC	1310
New Albany	
WGRC	1370
Richmond	
WKBY	1500
South Bend	
WFAM	1200
WSBT	1360
Terre Haute	
WBOW	1310
West Lafayette	
WBAA	890

IOWA	
WKRZ	1500
Ames	
WOI	640
Boone	
KFGQ	1370
Cedar Rapids	
WMT	600
Davenport	
WOC	1370
Decorah	
KGCA	1270
KWLC	1270
Des Moines	
KBNT	1320
KSO	1430
WBO	1000
Dubuque	
KDTH	1340
Fort Dodge	
KVFD	1370
Iowa City	
WSUI	880
Marshalltown	
KFJB	1300
Mason City	
KGLO	1210
Shenandoah	
KFNF	890
KMA	930
Sloux City	
KSCJ	1330
KTRI	1420

KANSAS

Ablene	
KPBI	1050
Atholison	
KVAK	1420
Coffeyville	
KGGF	1010
Dodge City	
KGNO	1340
Emporia	
KTSW	1370
Garden City	
KIUL	1210
Great Bend	
KVGB	1370
Hutchinson	
KWBG	1420
Kansas City	
KCKN	1310
Lawrence	
KFKU	1220
WREN	1220
Manhattan	
KSAC	580
Pittsburg	
KOAM	790
Salina	
KSAL	1500
Topeka	
WIBW	590
Wichita	
KANS	1210
KFH	1300

KENTUCKY

Ashland	
WCMI	1310
Bowling Green	
WBLJ	1310

KENTUCKY	
1490	
Hopkinsville	
WHOP	1200
Lexington	
WLAP	1420
Louisville	
WAVE	940
WHAS	820
WINN	1310
Owensboro	
WOMI	1500
Paduoaah	
WPAD	1420

LOUISIANA

Alexandria	
KALB	1210
Baton Rouge	
WJBO	1120
Lafayette	
KVOL	1310
Lake Charles	
KPLC	1500
Monroe	
KMLB	1200
New Orleans	
WDSU	1250
WJBW	1200
WNOE	1420
WSMB	1320
WVWL	850
Shreveport	
KRMD	1310
KTBS	1450
KWKH	1100

MAINE

Augusta	
WRDO	1370
Bangor	
WABI	1200
WLBZ	620
Lewiston	
WCOU	1210
Portland	
WCSH	940
WGAN	640
Presque Isle	
WAGM	1420

MARYLAND

Baltimore	
WBAL	760
WBAL	1060
WCAO	600
WCBM	1370
WFBZ	1270
Cumberland	
WTBO	800
Frederick	
WFMD	900
Hagerstown	
WJEJ	1210

MASSACHUSETTS

Boston	
WAAB	1410
WBEZ	950
WCOB	1120

WEEH	590
WHDE	830
WMEX	1500
WNAC	1280
WORL	920
Fall River	
WSAR	1450
Greenfield	
WHAI	1210
Hyannis	
WOCB	1210
Lawrence	
WLAW	680
WLLH	1370
Lowell	
WLLH	1370
New Bedford	
WNLH	1310
Pittsfield	
WBRK	1310
Salem	
WESX	1200
Springfield	
WBSA	900
WMAS	1420
WSPR	1140
Worcester	
WOBX	1280
WTAG	580

MICHIGAN

Battle Creek	
WELL	1420
Bay City	
WBGM	1410
Calumet	
WBDF	1370
Detroit	
WJBK	1500
WJB	750
WMBG	1420
WWJ	920
WXYZ	1240
East Lansing	
WKAR	850
Flint	
WFDF	1310
Grand Rapids	
WASH	1270
WOOD	1270
Ironwood	
WJMS	1420
Jackson	
WJBM	1370
Kalamazoo	
WKZO	590
Lansing	
WJIM	1210
Lapeer	
WMPC	1200
Marquette	
WBEO	1310
Muskegon	
WKBZ	1500
Pontiac	
WCAR	1100
Port Huron	
WHLB	1370
Royal Oak	
WEXL	1310
Saginaw	
WHAL	950
WMLG	1200
Sault Ste. Marie	
WSOO	1200

MINNESOTA

Albert Lea	
KATE	1420
Duluth	
KDAL	1500
WEBC	1390
Fergus Falls	
KGDE	1200
Hibbing	
WMFG	1210
Mankato	
KYSM	1500
Minneapolis	
WCCO	810
WDGY	1180
WLB	760
WTCN	1250
Moorhead	
KVOX	1310
Northfield	
WCAL	760
Rochester	
KROC	1310
St. Cloud	
KFAM	1420
St. Paul	
KSTP	1460
WMIN	1370
Virginia	
WHLB	1370
Winona	
KWNO	1200

MISSISSIPPI

Greenville	
WJPR	1310
Grenada	
WGRM	1210
Gulfport	
WGCM	1210
Hattiesburg	
WFOR	1370
Jackson	
WJDX	1370
WSLI	1420
Laurel	
WAML	1310
McCamb	
WSKB	1200
Meridian	
WCOC	850
Vicksburg	
WQBC	1360

MISSOURI

Cape Girardeau	
KFVS	1210
Columbia	
KFRU	630
Jefferson City	
KWOS	1310
Joplin	
WMBH	1420
Kansas City	
KCMO	1450
KTFE	1530
KMBC	950
WDAF	610
WHB	860
Poplar Bluff	
KWOC	1210

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

St. Joseph	
--KFEQ	689
St. Louis	
--KFUO	850
--KMOX	1090
--KSD	850
--KWK	1850
--KKOK	1250
--WEW	760
--WIL	1200
Sedalia	
--KDRO	1500
Springfield	
--KGBX	1230
--KWTO	560

MONTANA

Billings	
KGHL	780
Bozeman	
--KRBM	1420
Butte	
--KGIE	1340
Great Falls	
KFBB	1280
Helena	
--KPFA	1210
Kallispiell	
KGEZ	1810
Missoula	
--KGVO	1260
Wolf Point	
--KGCK	1450

NEBRASKA

Fremont	
KORN	1370
Grand Island	
--KMMJ	740
Hastings	
KHAS	1200
Kearney	
--KGFV	1810
Lincoln	
--KFAB	770
--KFOB	1210
Norfolk	
--WJAG	1060
North Platte	
--KGNF	1430
Omaha	
--KOIL	1260
--KOWH	660
--WOW	890
Scottsbluff	
--KGKY	1500

NEVADA

Reno	
--KOH	1980

NEW HAMPSHIRE

Lebanon	
--WLNH	1310
Manchester	
--WFEA	1840
Portsmouth	
WEEB	740

NEW JERSEY

Asbury Park	
WCAP	1280
Atlantic City	
WBAB	1200
WPG	1100
Bridgeton	
WSNJ	1210
Camden	
WCAM	1280
Jersey City	
WAAT	940
WHOM	1450
Newark	
--WBBI	1250
WOB	710
Red Bank	
--WRRB	1210
Trenton	
WTNJ	1280
Zarephath	
--WAWZ	1260

NEW MEXICO

Albuquerque	
--KGGM	1230
--KOB	1180
Carlsbad	
--KLAH	1210
Clovis	
--KICA	1370
Gallup	
--KAWM	1500
Hobbs	
--KRWV	1500
Roswell	
--KQFL	1870
Santa Fe	
--KVSP	1310

NEW YORK

Albany	
--WABY	1870
--WOKO	1430
Auburn	
--WBBO	1210
Binghamton	
--WBNF	1500
Brooklyn	
WARD	1400
WBBC	1400
WBRR	1300
WCNN	1500
WVFW	1400
Buffalo	
WBEN	900
--WBNY	1870
--WBBB	1210
WGR	550
--WKBW	1480
--WYSV	1270
Canton	
--WCAD	1220
Elmira	
WENY	1200
WESG	850
Fresport	
WGBB	1210
Jamestown	
--WJTN	1210
Newburgh	
--WGNV	1220

New York

WABC	860
WBIL	1100
--WBXX	1250
WBOQ	860
--WEAF	660
--WEVD	1300
--WHN	1010
WINS	1180
--WJZ	760
WLTH	1400
WMCA	570
--WNEW	1280
WNYC	810
WOV	1180
--WQXR	1550
Niagara Falls	
WHLD	1260
Ogdensburg	
WSLB	1370
Olean	
--WHDL	1400
Plattsburg	
--WMFP	1210
Poughkeepsie	
WKIP	1420
Rochester	
--WHAM	1150
--WHEC	1430
--WSAY	1210
Saranac Lake	
WNBZ	1290
Schenectady	
--WGY	790
Syracuse	
--WFBL	1360
WOLF	1500
WSYR	570
WSYU	570
Troy	
WHAZ	1300
WTRY	950
Utica	
--WIBX	1200
Uster Twp.	
WKNY	1500
White Plains	
--WFAS	1210
Woodside	
--WWRL	1500

NORTH CAROLINA

Ashville	
WISE	1870
WWNC	870
Charlotte	
--WBT	1080
--WSOC	1210
Durham	
--WDNC	1500
Elizabeth City	
WCNC	1870
Fayetteville	
WFNC	1840
Gastonia	
--WGNC	1420
Goldboro	
--WGBB	1370
Greensboro	
--WBIG	1440
Greenville	
WCCT	1500
Hickory	
WHKY	1370
High Point	
--WMFB	1200

Kinston	
--WFTC	1200
Raleigh	
--WPTF	680
--WRAL	1210
Rocky Mount	
--WEED	1420
Salisbury	
--WSTP	1500
Wilmington	
--WMFD	1370
Wilson	
--WGTM	1310
Winston-Salem	
--WALB	1250
--WSJS	1210

NORTH DAKOTA

Bismarck	
--KFYE	550
Devils Lake	
--KDLE	1210
Fargo	
--WDAY	940
Grand Forks	
--KFJM	1410
Jamestown	
--KRMG	1370
Mandan	
--KGCU	1240
Minot	
--KLPJ	1360
Valley City	
--KOVG	1500

OHIO

Akron	
--WADC	1320
--WJW	1210
Ashtabula	
--WICA	940
Canton	
--WBHC	1200
Cincinnati	
--WCKY	1490
--WCPO	1200
--WKRC	550
--WLW	700
--WSAI	1330
WSEX	700
Cleveland	
--WCLE	610
--WGAB	1450
--WHK	1390
--WTAM	1070
Columbus	
--WBNS	1480
--WCOL	1210
--WHKC	640
--WOSU	870
Dayton	
--WHIO	1260
--WING	1980
Lima	
--WLOK	1210
Mansfield	
WMAN	1370
Portsmouth	
--WPAY	1570
Toledo	
--WSPD	1340
--WTOL	1200
Youngstown	
WFMJ	1420

--WKBN	870
Zanesville	
--WALB	1210

OKLAHOMA

Ada	
--KADA	1200
Ardmore	
--KVSO	1210
Eik City	
--KASA	1210
Enid	
--KCRC	1360
Muskogee	
--KBIX	1500
Norman	
--WNAD	1010
Oklahoma City	
--KOCY	1810
--KOMA	1450
--KTOK	1370
--WKY	900
Okmulgee	
--KHBG	1210
Ponca City	
--WBBZ	1200
Shawnee	
--KGFF	1420
Tulsa	
--KOME	1810
--KTUL	1400
--KVOO	1140

OREGON

Astoria	
KAST	1260
Baker	
--KBBB	1500
Bend	
KBND	1310
Corvallis	
KOAC	550
Eugene	
KORE	1420
Grants Pass	
KUIN	1310
Klamath Falls	
KEFI	1310
La Grande	
--KLBH	1420
Marshfield	
KOOS	1200
Medford	
KMED	1410
Portland	
--KALE	1300
KBPS	1420
--KEX	1180
--KGW	630
--KOIN	940
--KWJJ	1040
KXL	1420
Roseburg	
KRNR	1500
Salem	
--KSLM	1360
Pennsylvania	
Allentown	
WCBA	1440
WSAN	1440
Altoona	
--WFBG	1210
Easton	
WEST	1200

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Erie</p> <p>WLEU 1420</p> <p>Glenside</p> <p>WIBG 970</p> <p>Greensburg</p> <p>WEJB 620</p> <p>Grove City</p> <p>WWSAJ 1810</p> <p>Harrisburg</p> <p>WEP 1430</p> <p>WKBO 1200</p> <p>Hazleton</p> <p>WAZL 1420</p> <p>Johnstown</p> <p>WJAC 1370</p> <p>Lancaster</p> <p>WGAL 1500</p> <p>New Castle</p> <p>WKST 1250</p> <p>Philadelphia</p> <p>KXW 1020</p> <p>WCAU 1170</p> <p>WDAS 1370</p> <p>WFIL 500</p> <p>WHAT 1310</p> <p>WIP 610</p> <p>WPEP 920</p> <p>WTEL 1310</p> <p>Pittsburgh</p> <p>KDKA 980</p> <p>KQV 1380</p> <p>WCAE 1220</p> <p>WJAS 1290</p> <p>WWSW 1500</p> <p>Reading</p> <p>WBEU 880</p> <p>WRAW 1310</p> <p>Seranton</p> <p>WGBI 880</p> <p>WQAN 880</p> <p>Sharon</p> <p>WPIC 780</p> <p>WVOK 1210</p> <p>Uniontown</p> <p>WBBS 1420</p> <p>Wilkes-Barre</p> <p>WBAX 1210</p> <p>WBRE 1310</p> <p>Williamsport</p> <p>WRAK 1370</p> <p>York</p> <p>WORK 1820</p> <p>PUERTO RICO</p> <p>Mayaguez</p> <p>WPRR 1870</p> <p>Ponce</p> <p>WPHP 1420</p> <p>San Juan</p> <p>WKAQ 1240</p> <p>WNEL 1280</p> <p>RHODE ISLAND</p> <p>Providence</p> <p>WEAN 780</p> <p>WJAR 800</p> <p>WPBO 680</p> <p>SOUTH CAROLINA</p> <p>Anderson</p> <p>WAIM 1200</p>	<p>Charleston</p> <p>WCSG 1380</p> <p>WVMA 1210</p> <p>Columbia</p> <p>WCOS 1370</p> <p>WIS 560</p> <p>Florence</p> <p>WOLS 1200</p> <p>Greenville</p> <p>WFBC 1800</p> <p>Spartanburg</p> <p>WHTT 1370</p> <p>WSPA 920</p> <p>Sumter</p> <p>WPIG 1310</p> <p>SOUTH DAKOTA</p> <p>Aberdeen</p> <p>KABR 1390</p> <p>Brookings</p> <p>KPDY 780</p> <p>Pierre</p> <p>KGFX 630</p> <p>Rapid City</p> <p>KOBH 1370</p> <p>WCAT 1200</p> <p>Sioux Falls</p> <p>KELO 1200</p> <p>KSOO 1110</p> <p>Vermillion</p> <p>KUSD 890</p> <p>Yankton</p> <p>WNAX 370</p> <p>TENNESSEE</p> <p>Bristol</p> <p>WOPI 1500</p> <p>Chattanooga</p> <p>WAPO 1420</p> <p>WOOD 1280</p> <p>Cookeville</p> <p>WHUB 1370</p> <p>Jackson</p> <p>WTJS 1310</p> <p>Johnson City</p> <p>WJHL 1200</p> <p>Knoxville</p> <p>WNOX 1010</p> <p>WROL 1310</p> <p>Memphis</p> <p>WBBQ 1370</p> <p>WMC 780</p> <p>WMP5 1480</p> <p>WREB 608</p> <p>Nashville</p> <p>WLAC 1470</p> <p>WSIX 1210</p> <p>WEM 650</p> <p>TEXAS</p> <p>Abilene</p> <p>KRBC 1420</p> <p>Amarillo</p> <p>KFDA 1500</p> <p>KGNC 1410</p> <p>Austin</p> <p>KNOW 1500</p> <p>KTBC 1120</p>	<p>Beaumont</p> <p>KFDM 560</p> <p>KRIC 1420</p> <p>Big Spring</p> <p>KBST 1500</p> <p>Brady</p> <p>KNEL 1500</p> <p>Brownsville</p> <p>KGFI 1500</p> <p>College Station</p> <p>WTAW 1120</p> <p>Corpus Christi</p> <p>KRIS 1330</p> <p>Corsicana</p> <p>KAND 1310</p> <p>Dallas</p> <p>KRLD 1040</p> <p>WFAA 800</p> <p>WBR 1280</p> <p>Denton</p> <p>KDNT 1420</p> <p>Dublin</p> <p>KFPL 1310</p> <p>El Paso</p> <p>KROD 1500</p> <p>KTSM 1310</p> <p>WDAH 1310</p> <p>Fort Worth</p> <p>KFJZ 1240</p> <p>KGKO 570</p> <p>WBAP 800</p> <p>Galveston</p> <p>KLUF 1370</p> <p>Houston</p> <p>KPRC 920</p> <p>KTRE 1290</p> <p>KXYZ 1440</p> <p>Huntsville</p> <p>KSAM 1500</p> <p>Kilgore</p> <p>KOCA 1210</p> <p>Laredo</p> <p>KPAB 1500</p> <p>Longview</p> <p>KFRQ 1370</p> <p>Lubbock</p> <p>KFTO 1310</p> <p>Lufkin</p> <p>KRBA 1310</p> <p>Midland</p> <p>KRLH 1420</p> <p>Palestine</p> <p>KNEI 1420</p> <p>Pampa</p> <p>KPDN 1310</p> <p>Paris</p> <p>KPLT 1500</p> <p>Pecos</p> <p>KIUN 1370</p> <p>Plainview</p> <p>KWBD 1200</p> <p>Port Arthur</p> <p>KPAC 1280</p> <p>San Angelo</p> <p>KGKL 1370</p> <p>San Antonio</p> <p>KABC 1420</p> <p>KMAC 1370</p> <p>KONO 1370</p> <p>KTSA 550</p> <p>WQAJ 1190</p> <p>Sherman</p> <p>KRRV 1310</p> <p>Sweetwater</p> <p>KXOX 1210</p> <p>Temple</p> <p>KTEM 1370</p>	<p>Texaskana</p> <p>KCMC 1420</p> <p>Tyler</p> <p>KGKB 1500</p> <p>Vernon</p> <p>KVWC 1500</p> <p>Victoria</p> <p>KVIC 1310</p> <p>Waco</p> <p>WACO 1420</p> <p>Weslaco</p> <p>KRGV 1260</p> <p>Wichita Falls</p> <p>KWFT 620</p> <p>UTAH</p> <p>Cedar City</p> <p>KSUB 1310</p> <p>Logan</p> <p>KVNU 1300</p> <p>Ogden</p> <p>KLO 1400</p> <p>Price</p> <p>KEUB 1420</p> <p>Provo</p> <p>KOVO 1310</p> <p>Salt Lake City</p> <p>KDYL 1280</p> <p>KSL 1130</p> <p>KUTA 1500</p> <p>VERMONT</p> <p>Burlington</p> <p>WCAX 1200</p> <p>Rutland</p> <p>WSBY 1500</p> <p>St. Albans</p> <p>WQDM 1390</p> <p>Springfield</p> <p>WNBX 1260</p> <p>Waterbury</p> <p>WDEV 550</p> <p>VIRGINIA</p> <p>Charlottesville</p> <p>WCHV 1420</p> <p>Danville</p> <p>WBTM 1370</p> <p>Fredericksburg</p> <p>WFVA 1260</p> <p>Harrisonburg</p> <p>WSVA 550</p> <p>Lynchburg</p> <p>WLVA 1200</p> <p>Newport News</p> <p>WGH 1310</p> <p>Norfolk</p> <p>WTAR 780</p> <p>Petersburg</p> <p>WPID 1210</p> <p>Richmond</p> <p>WBBL 1210</p> <p>WMBG 1350</p> <p>WRNL 880</p> <p>WRTD 1500</p> <p>WRVA 1110</p> <p>Roanoke</p> <p>WDBJ 980</p> <p>Suffolk</p> <p>WLPM 1420</p>	<p>WASHINGTON</p> <p>Aberdeen</p> <p>KXRO 1310</p> <p>Bellingham</p> <p>KVOS 1200</p> <p>Centralia</p> <p>WELA 1440</p> <p>Everett</p> <p>KRKO 1370</p> <p>Longview</p> <p>KWLK 780</p> <p>Olympia</p> <p>KGY 1210</p> <p>Pullman</p> <p>KWSC 1230</p> <p>Seattle</p> <p>KEEN 1370</p> <p>KIRO 710</p> <p>KJR 970</p> <p>KOL 1270</p> <p>KOMO 920</p> <p>KRSC 1130</p> <p>KTW 1220</p> <p>KXA 760</p> <p>Spokane</p> <p>KPIO 1120</p> <p>KFPY 890</p> <p>KGA 1470</p> <p>KHQ 590</p> <p>Tacoma</p> <p>KMO 1390</p> <p>KVI 570</p> <p>Vancouver</p> <p>KVAN 890</p> <p>Walla Walla</p> <p>KUJ 1370</p> <p>Wenatchee</p> <p>KPO 1500</p> <p>Yakima</p> <p>KIT 1250</p> <p>WEST VIRGINIA</p> <p>Beckley</p> <p>WLS 1210</p> <p>Buefield</p> <p>WHIS 1410</p> <p>Charleston</p> <p>WCES 580</p> <p>WGKV 1500</p> <p>Clarksburg</p> <p>WBLK 1370</p> <p>Fairmont</p> <p>WMMN 890</p> <p>Huntington</p> <p>WSAZ 1190</p> <p>Parkersburg</p> <p>WPAR 1420</p> <p>Wheeling</p> <p>WWVA 1180</p> <p>Williamson</p> <p>WBTH 1370</p> <p>WISCONSIN</p> <p>Eau Claire</p> <p>WEAU 1050</p> <p>Fond du Lac</p> <p>KFIZ 1420</p> <p>Green Bay</p> <p>WHBY 1200</p> <p>WTAQ 1380</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Janesville	
WGLD	1300
LaCrosse	
WKBH	1280
Madison	
WEA	940
WIBA	1280
Manitowoc	
WOMT	1210
Marquette	
WMAM	870
Milwaukee	
WEMP	1810
WISN	1130
WTMJ	630
Poynette	
WIBU	1210
Racine	
WLJN	1870
Rice Lake	
WJMC	1210
Sheboygan	
WIBL	1300
Stevens Point	
WLBL	900
Superior	
WDSM	1200
Wausau	
WSAU	1870

WYOMING

Casper	
KDFN	1440
Rock Springs	
KVRS	1370
Sheridan	
KWYO	1870

BAHAMAS

Nassau	
ZNS	790

CANADA ALBERTA

Calgary	
CFAC	930
CFCN	1030
CJCF	690
Edmonton	
CFRN	960
CJCA	730
CKUA	530
Grande Prairie	
CFPG	1200
Lethbridge	
CJOC	1210

BRITISH COLUMBIA

Chilliwack	
CHWK	730
Kamloops	
CFJC	830
Kelowna	
CKOV	630
Nelson	
CKLN	1420
Prince Rupert	
CFPR	530

Trall	
CJAT	910
Vancouver	
CBR	1100
CJOB	600
CKCD	1010
CKFC	1410
CKMO	1410
CKWX	1010
Victoria	
CFCT	1450

MANITOBA

Brandon	
CKX	1120
Flin Flon	
CFAB	1370
Winnipeg	
CJBC	630
CKY	810

NEW BRUNSWICK

Fredericton	
CFNB	550
Monoton	
CKCW	1370
Sackville	
CBA	1050
St. John	
CHSJ	1120

NOVA SCOTIA

Glace Bay	
VAS	635
Halifax	
CHNS	930
Sydney	
CJCB	1240
Wolfville	
CKIC	1010
Yarmouth	
CJLS	1310

ONTARIO

Brantford	
CKPC	930
Chatham	
CFCO	630
Cobalt	
CKMC	1210
Fort William	
CKFR	530
Hamilton	
CHML	1010
CKOC	1120
Kenora	
CKCA	1420
Kingston	
CFBC	1510
Kirkland Lake	
CKKL	1310
London	
CFPL	730
North Bay	
CFCH	930
Ottawa	
CBO	330
CKCO	1010

Owen Sound	
CFOS	1370
Prescott	
CFLC	930
St. Catharines	
CKTB	1200
Sault Ste. Marie	
CJIC	1500
Stratford	
CJCS	1210
Sudbury	
CKSO	730
Timmins	
CKGB	1440
Toronto	

— CBL	840
— CBY	1420
— CFB	630
— CKCL	530
Waterloo	
CKCE	1510
Windsor	
— CKLW	1030
Wingham	
— CKNX	1200

PRINCE EDWARD ISLAND

Charlottetown	
CFCY	630
CHCK	1310
Summerside	
CHGS	1450

QUEBEC

Chicoutimi	
CBJ	1120
Hull	
CKCH	1210
Montreal	
— CBF	910
— CBM	960
CFCF	600
CHLP	1120
— CKAC	730
New Carlisle	
CHNC	610
Quebec	
CHRC	530
CKCV	1310
CBV	950
Rimouaki	
CJBE	1030
Rouyn	
CKRN	1370
St. Anne de la Pocatiere	
CHGB	1200
Sherbrooke	
CHLT	1210
Three Rivers	
CHLN	1420

SASKATCH- EWAN

Moose Jaw	
CHAB	1200
Prince Albert	
CKBI	1210
Regina	
— CJRM	950
— CRCK	1010

Saskatoon	
CFQC	600
Watrous	
— CBYK	540
Yorkton	
CJGX	1430

COSTA RICA

Alajuela	
TIBC	575
San Jose	
TIAFB	900
TIBMC	360
TIBF	330
TIFA	1000
TIGH	690
TIGPH	600
TIGPH2	1225
TIH	1030
ILW	775
FILS	880
TINBC	1070
TING	750
TIOS	940
TIPG	625
TIRCC	1200
TIRS	920
TIXD	300

CUBA

Banes	
CMKX	1190
Bayamo	
CMKL	950
Calbarion	
CMHD	1270
Camaguey	
CMJA	860
CMJC	1390
CMJE	1230
CMJF	430
CMJK	1020
CMJW	1070
CMJX	660
Cardenas	
CMGE	1370
Ciego de Avila	
CMJH	1360
CMJI	1130
CMJO	1260
Gienfuegos	
CMHJ	1160
CMHM	1450
CMHX	1430
Cruces	
CMHX	1210
Guantanamo	
CMKS	710
Guines	
CMRT	1530
Havana	
— CMBC	690
CMBD	1260
CMBF	1560
CMBG	1140
CMBH	1800
— CMBL	750
CMBG	910
CMBS	1170
CMBX	1030
CMBY	1440
CMBZ	940
CMC	1530
— CMCA	1350
CMCB	1230

— CMCD	630
CMCF	810
CMCG	1290
CMCH	1050
CMCJ	1110
— CMCK	970
CMCL	730
CMCM	850
CMCO	1260
CMCQ	1410
CMCU	1010
CMCR	1320
CMCW	1330
CMCX	1470
CMCY	570
— CMK	730
CMOA	660
— CMOX	1500
— CMQ	750
CMW	550
— CMX	850
CMZ	920
Holguint	
CMKF	1460
CMKO	1230
Manzanillo	
CMKE	1310
CMKM	1030

Matanzas	
CMGF	1120
CMGH	710
Moron	
ZMJP	1420
Palma Soriano	
CMKZ	1430
Pinar del Rio	
CMAB	1240
CMAR	1400
Plaetas	
CMHP	1100
Sagua la Grande	
CMHA	1090
CMHO	1020
Sancti Spiritus	
CMHB	1240
Santa Clara	
— CMHI	830
CMHW	630
Santiago	
CMKC	1250
CMKD	910
CMKG	1000
CMKQ	1490
CMKR	1400
CMKW	1030
CMKY	960
Trinidad	
CMHT	920

DOMINICAN REPUBLIC

Ciudad Trujillo	
HIG	800
HIN	1000
HIX	800
HIT	1050
HIZ	1370
HISQ	1470

EL SALVADOR

San Salvador	
— YSS	640

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>GUATEMALA</p> <p>Guatemala City TGW 1520 TGX 1400 TGI 1810</p> <p>Quezaltenango TGQ 1460</p> <p>HONDURAS</p> <p>Teguigalpa HRN 1450</p> <p>MEXICO</p> <p>Aguascalientes</p> <p>Aguascalientes XEAD 1240 XEBI 1000</p> <p>BAJA CALIFORNIA</p> <p>Mexicali XEAA 750 XEAO 600 XECL 1110</p> <p>Tijuana XEAC 980 XEAU 1310 XEBG 820 XEC 1160 XELO 670 XEMO 860 XERB 1090</p> <p>CAMPECHE</p> <p>Campeche XEBA 1400</p> <p>CHIHUAHUA</p> <p>Chihuahua XEBU 1240</p>	<p>XEBW 1840 XEFI 1440 XEM 1390</p> <p>Juarez XEF 1450 XEPV 1210 XEJ 1020 XEP 1160</p> <p>Farrat XEAT 1210</p> <p>COAHUILA</p> <p>Piedras Negras XEMU 580 XEPN 730</p> <p>Sabinas XEBX 640</p> <p>Saltillo XEAS 1160 XEKS 1240</p> <p>Torreón XETB 1310 XEDM 1400</p> <p>Villa Ahona XEDH 1340 XERA 840</p> <p>DISTRITO FEDERAL</p> <p>Mexico City XEAI 1250 XEB 1030 XEBS 1340 XEBZ 810 XEDA 1220 XEDP 1050 XEFO 940 XEJP 1130 XEK 990 XEKR 1280 XEL 1150 XELZ 1370 XEN 730 XEQ 730 XEQK 1500 XERC 830</p>	<p>XERH 1430 XFSM 1270 XEW 890 XEXX 1170</p> <p>DURANGO</p> <p>Durango XEBP 1150 XEB 1210</p> <p>GUANAJUATO</p> <p>Irapuato XEBO 1810</p> <p>Leon XEFM 1160 XEKL 1240</p> <p>Silao XEWE 720</p> <p>JALISCO</p> <p>Guadalajara XED 1160 XEHK 1230 XELW 1340</p> <p>Guzman XEBA 1080</p> <p>MEXICO</p> <p>Texcoco XEXE 1270</p> <p>Toluca XECH 1490</p> <p>MICHOACAN</p> <p>Morelia XEBC 1240 XEI 1370</p> <p>NUEVO LEON</p> <p>Monterrey XEFB 870 XEG 1230 XEH 740 XET 690 XEX 1810</p>	<p>OAXACA</p> <p>Oaxaca XEXH 1150</p> <p>PUEBLA</p> <p>Puebla XETH 1310</p> <p>SAN LUIS POTOSI</p> <p>San Luis Potosi XECZ 1870</p> <p>SINALOA</p> <p>Mazatlan XEBL 1230 XEDS 1400</p> <p>SONORA</p> <p>Cananea XEFQ 1010</p> <p>Guaymas XEDR 1490</p> <p>Hermosillo XEBH 930</p> <p>Navjoa XEAJ 1400 XEDL 1240</p> <p>Nogales XEAF 990</p> <p>Obregon XEAP 1340</p> <p>TAMAULIPAS</p> <p>Matamoros XEAM 760</p> <p>Nuevo Laredo XEBK 1080 XEDF 810 XEFB 980 XENT 910</p> <p>Reynosa XEAW 960</p>	<p>Tempe XECA 1230 XEFW 1310 XES 990</p> <p>Victoria XEBJ 1340</p> <p>VERACRUZ</p> <p>Cordoba XEAG 1310 XECW 1240</p> <p>Jalapa XEBB 1270</p> <p>Minatitlan XEDW 1150</p> <p>Veracruz XETP 1220 XEU 1010</p> <p>YUCATAN</p> <p>Merida XEFC 1840 XEME 1240 XEZ 680</p> <p>MIQUELON</p> <p>St. Pierre FQN 609</p> <p>NEWFOUNDLAND</p> <p>St. John's YOAC 1065 YOAR 950 YOVM 1040 YOGY 840 YONF 640 YOWE 700</p> <p>PANAMA</p> <p>Colon HOK 640</p>
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- (Continued from page 4)
- Dist. No. 14, Federal Office Bldg., Seattle, Wash.
 - Sub-Office: P. O. Box 2719, Juneau, Alaska.
 - Dist. No. 15, Customhouse, Denver, Colo.
 - Dist. No. 16, Main P. O. Bldg., St. Paul, Minn.
 - Dist. No. 17, Pickwick Bldg., Kansas City, Mo.
 - Dist. No. 18, 246 U. S. Court House Bldg., Chicago, Ill.
 - Dist. No. 19, New Federal Bldg., Detroit, Mich.
 - Dist. No. 20, Federal Bldg., Buffalo, N. Y.
 - Dist. No. 21, Aloha Tower, Honolulu, Hawaii
 - Dist. No. 22, Ochoa Bldg., San Juan, Puerto Rico.
- 10 Meters**

650 - NYA 770 - HJTABK 1170



The QRA of CN8BB, often heard on 20 meters, is Davize Roger, Villa la Flarazee, Bd. des Regiments Coloniaux, Casablanca, Morocco, but he advises on his card to QSL via AAEM, Boite Postale 50, Casablanca. In the center is a globe surrounded by Moroccan products, and the caption beside it says "Like the waves, the products of Morocco go 'round the world.'"

NORTH AMERICAN B. C. STATIONS BY CALL LETTERS

*For power and network affiliations, see
the list of stations by frequencies.*

The space under the call letters may
be used for logging or checking.

CBA	1050	CHGB	1200	CKCL	580	CMBL	750	CMHJ	1160	CMKW	1030
CBF	910	CHGS	1450	CKCO	1010	CMBQ	910	CMHK	1210	CMKX	1190
CBJ	1120	CHLN	1420	CKCR	1510	CMB5	1170	CMHM	1450	CMKY	960
CBK	540	CHLP	1120	KKCV	1310	CMBX	1080	CMHO	1020	CMKZ	1430
CBL	840	CHLT	1210	CKCW	1370	CMBY	1440	CMHP	1100	CMOA	660
CBM	960	CHML	1010	CKFC	1410	CMBZ	940	CMHT	920	CMOX	1500
CBO	880	CHNC	610	CKGB	1440	CMC	1530	CMHW	680	CMQ	780
CBR	1100	CHNS	930	CKIC	1010	CMCA	1350	CMHX	1480	CMW	550
CBY	950	CHRC	580	CKLN	1420	CMCB	1230	CMJA	860	CMX	880
CBY	1420	CHSJ	1120	CKLW	1030	CMCD	630	CMJC	1390	CMZ	920
CFAC	930	CHWK	780	CMC	1210	CMCF	810	CMJE	1230	CM9RT	1580
CFAR	1370	CJAT	910	CKMO	1410	CMCG	1290	CMJF	930	FQN	609
CFCF	600	CJBR	1030	CKNX	1200	CMCJ	1110	CMJH	1360	HIG	900
CFCH	930	CJCA	730	CKOC	1120	CMCH	1050	CMJI	1130	HIN	1090
CFCN	1030	CJCB	1240	CKOV	630	CMCK	970	CMJK	1020	HIT	1050
CFCO	630	CJCJ	690	CKPG	930	CMCL	730	CMJO	1260	HIX	800
CFCT	1450	CJCS	1210	CKPR	580	CMCM	850	CMJP	1420	HIZ	1370
CFCY	630	CJGX	1430	CKRN	1370	CMCO	1200	CMJW	1070	H18Q	1470
CFGP	1200	CJIC	1500	CKSO	780	CMCQ	1410	CMJX	660	HOK	640
CFJC	880	CJKL	1310	CKTB	1200	CMCR	1320	CMK	720	HRN	1450
CFLC	930	CJLS	1310	CKUA	580	CMCU	1010	CMKC	1250	KABC	1420
CFNB	550	CJOC	1210	CKWX	1010	CMCW	1380	CMKD	910	KABR	1390
CFOS	1370	CJOR	600	CKX	1120	CMCX	1470	CMKE	1310	KADA	1200
CFPL	730	CJRC	630	CKY	910	CMCY	590	CMKF	1460	KALB	1210
CFPR	580	CJRM	950	CMAB	1240	CMGE	1370	CMKG	1000	KALE	1300
CFQC	600	CKAC	730	CMAR	1400	CMGF	1120	CMKL	950	KAND	1310
CFRB	690	CKBI	1210	CMBC	690	CMGH	710	CMKM	1080	KANS	1210
CFRC	1510	CKCA	1420	CMBD	1260	CMHA	1090	CMKO	1280	KARK	890
CFRN	960	CKCD	1010	CMBF	1560	CMHB	1240	CMKQ	1490	KARM	1310
CHAB	1200	CKCH	1210	CMBG	1140	CMHD	1270	CMKR	1400	KASA	1210
CHCK	1310	CKCK	1010	CMBH	1600	CMHI	830	CMKS	710	KAST	1200

KATE 1420	KFAR 610	KFV5 1210	KGKO 570	KJR 970	KOIL 1260
KAWM 1500	KFBB 1280	KFWB 950	KGKY 1500	KLAH 1210	KOIN 940
KBIX 1500	KFBI 1050	KFXD 1200	KGLO 1210	KLBM 1420	KOKO 1370
KBKR 1500	KFBK 1490	KFXJ 1200	KGLU 1420	KLCN 1290	KOL 1270
KBND 1310	KFDA 1500	KFXM 1210	KGMB 1320	KLO 1400	KOMA 1480
KBPS 1420	KFDM 560	KFYO 1310	KGNC 1410	KLPM 1360	KOME 1310
KBST 1500	KFDY 780	KFYR 550	KGNF 1430	KLRA 1390	KOMO 920
KBTM 1200	KFEL 920	KGA 1470	KGNO 1340	KLS 1280	KONO 1370
KCKN 1310	KFEQ 680	KGB 1330	KGO 790	KLUF 1370	KOOS 1200
KCMC 1420	KFGQ 1370	KGBU 900	KGU 750	KLX 880	KORE 1420
KCMO 1450	KFH 1300	KGBX 1230	KGVO 1260	KLZ 560	KORN 1370
KCRC 1360	KFI 640	KGCA 1270	KGW 620	KMA 930	KOTN 1500
KCRJ 1310	KFIO 1120	KGCU 1240	KGY 1210	KMAC 1370	KOVC 1500
KDAL 1500	KFIZ 1420	KGCX 1450	KHAS 1200	KMBC 950	KOVO 1210
KDB 1500	KFJB 1200	KGDE 1200	KHBC 1200	KMED 1410	KOWH 660
KDFN 1440	KFJI 1210	KGDM 1100	KHBG 1210	KMJ 580	KOY 1390
KDKA 980	KFJM 1410	KGEK 1200	KHJ 900	KMLB 1200	KPAB 1500
KDLR 1210	KFJZ 1240	KGER 1360	KHQ 590	KMMJ 740	KPAC 1260
KDNT 1420	KFKA 880	KGEZ 1310	KHSL 1260	KMO 1330	KPDN 1310
KDON 1210	KFKU 1220	KGFF 1420	KHUB 1310	KMOX 1090	KPFA 1210
KDRO 1500	KFNF 890	KGFI 1500	KICA 1370	KMPC 710	KPFT 1210
KDTH 1340	KFOR 1210	KGFI 1200	KID 1320	KMTR 570	KPLC 1500
KDYL 1290	KFOX 1250	KGFL 1370	KIDO 1350	KNEL 1500	KPLT 1500
KECA 780	KFPL 1310	KGFW 1310	KIDW 1420	KNET 1420	KPMC 1550
KEEN 1370	KFPW 1210	KGFX 630	KIEM 1450	KNOW 1500	KPO 680
KELA 1440	KFPY 890	KGGF 1010	KIEV 850	KNX 1050	KPOF 880
KELD 1370	KFQD 780	KGGM 1230	KINY 1430	KOA 830	KPPC 1210
KELO 1200	KFRC 610	KGHF 1320	KIRO 710	KOAC 550	KPQ 1500
KERN 1370	KFRO 1370	KGHI 1200	KIT 1250	KOAM 790	KPRC 920
KEUB 1420	KFRU 630	KGHL 780	KITE 1530	KOB 1180	KQV 1380
KEX 1180	KFSD 600	KGIR 1340	KIUL 1210	KOBH 1370	KQW 1010
KFAB 770	KFSG 1120	KGIW 1420	KIUN 1370	KOCA 1210	KRBA 1310
KFAC 1300	KFUO 550	KGKB 1500	KIUP 1370	KOCY 1310	KRBC 1420
KFAM 1420	KFVD 1000	KGKL 1370	KJBS 1070	KOH 1380	KRBM 1420

KRE 1370	KSUN 1200	KVOA 1260	KXOK 1250	VOCM 1040	WBAL 760
KRGV 1260	KTAR 620	KVOD 630	KXOX 1210	VONF 640	WBAL 1060
KRIC 1420	KTBC 1120	KVOE 1500	KXRO 1310	VOGY 840	WBAP 800
KRIS 1330	KTBS 1450	KVOL 1310	KXYZ 1440	VOAC 1065	WBAX 1210
KRKD 1120	KTEM 1370	KVOO 1140	KYA 1230	VOAR 950	WBBC 1400
KRKO 1370	KTFI 1240	KVOR 1270	KYCA 1500	VOWR 700	WBBL 1210
KRLC 1390	KTHS 1060	KVOS 1200	KYOS 1040	WAAB 1410	WBBM 770
KRLD 1040	KTKC 890	KVOX 1310	KYSM 1500	WAAF 920	WBBR 1300
KRLH 1420	KTMS 1220	KVRS 1370	KYUM 1210	WAAT 940	WBBZ 1200
KRMC 1370	KTOH 1500	KVSF 1310	KYW 1020	WABC 860	WBCM 1410
KRMD 1310	KTOK 1370	KVSO 1210	TGQ 1450	WABI 1200	WBEN 900
KRNR 1500	KTRB 740	KVWC 1500	TGW 1520	WABY 1370	WBEO 1310
KRNT 1320	KTRH 1290	KWAL 1420	TGX 1400	WACO 1420	WBHP 1200
KROC 1310	KTRI 1420	KWBD 1200	TGI 1310	WADC 1320	WBIG 1440
KROD 1500	KTSA 550	KWBG 1420	TIAFB 900	WAGA 1450	WBIL 1100
KROW 930	KTSM 1310	KWEW 1500	TIEMC 860	WAGF 1370	WBLK 1370
KROY 1210	KTSW 1370	KWFC 1310	TIEP 830	WAGM 1420	WBNS 1430
KRRV 1310	KTUC 1370	KWFT 620	TIFA 1000	WAIM 1200	WBNX 1350
KRSC 1120	KTUL 1400	KWGG 1200	TIGH 690	WAIR 1250	WBNY 1370
KSAC 580	KTW 1220	KWJB 1210	TIGPH 605	WALA 1380	WBOQ 860
KSAL 1500	KUIN 1310	KWJJ 1040	TIGPH2 1225	WALR 1210	WBOW 1310
KSAM 1500	KUJ 1370	KWK 1350	TIHO 1030	WAML 1310	WBRB 1210
KSAN 1420	KUOA 1260	KWKH 1100	TILJ 775	WAPI 1140	WBRC 930
KSCJ 1330	KUSD 890	KWLC 1270	TILS 880	WAPQ 1420	WBRE 1310
KSD 550	KUTA 1500	KWLK 780	TINBC 1070	WARD 1400	WBRK 1310
KSEI 900	KVAK 1420	KWNO 1200	TING 750	WASH 1270	WBRY 1530
KSFO 560	KVAN 880	KWOC 1310	TIOS 940	WATL 1370	WBT 1080
KSL 1130	KVCV 1200	KWOS 1310	TIPG 625	WATR 1290	WBTH 1370
KSLM 1360	KVEC 1200	KWSC 1220	TIRCC 1200	WAVE 940	WBTM 1370
KSO 1430	KVFD 1370	KWTO 560	TIRS 920	WAWZ 1350	WBZ 990
KSOO 1110	KVGB 1370	KWYO 1370	TIXD 800	WAYX 1200	WBZA 990
KSRO 1310	KVI 570	KXA 760	TI4NRH 725	WAZL 1420	WCAD 1220
KSTP 1460	KVIC 1310	KXL 1420	TI5CV 575	WBAA 890	WCAE 1220
KSUB 1310	KVNU 1200	KXO 1500	VAS 685	WBAB 1200	WCAL 760

WCAM 1280	WDAE 1220	WEOA 1370	WGBF 630	WHBU 1210	WICC 600
WCAO 600	WDAF 610	WESG 850	WGBI 880	WHBY 1200	WIL 1200
WCAP 1280	WDAH 1310	WEST 1200	WGBR 1370	WHDF 1370	WILL 580
WCAR 1100	WDAN 1500	WESX 1500	WGCM 1210	WHDH 830	WILM 1420
WCAT 1200	WDAS 1370	WEVD 1310	WGES 1360	WHDL 1400	WIND 560
WCAU 1170	WDAY 940	WEW 760	WGH 1310	WHEB 740	WING 1380
WCAX 1200	WDBJ 930	WEXL 1310	WGIL 1500	WHEC 1430	WINN 1210
WCAZ 1070	WDBO 580	WFAA 800	WGKV 1500	WHFC 1420	WINS 1180
WCBA 1440	WDEL 1120	WFAM 1200	WGL 1370	WHIO 1260	WIOD 610
WCBD 1080	WDEV 550	WFAS 1210	WGN 720	WHIP 1480	WIP 610
WCBM 1370	WDGY 1180	WFBC 1300	WGNC 1420	WHIS 1410	WIRE 1400
WCBS 1420	WDLP 1200	WFBG 1310	WGNV 1220	WHJB 620	WIS 560
WCCO 810	WDNC 1500	WFBL 1360	WGPC 1420	WHK 1390	WISE 1370
WCFL 970	WDOD 1280	WFBM 1230	WGR 550	WHKC 640	WISN 1120
WCHS 580	WDRC 1330	WFBR 1270	WGRC 1370	WHKY 1370	WJAC 1370
WCHV 1420	WDSM 1200	WFDF 1310	WGRM 1210	WHLB 1370	WJAG 1060
WCKY 1490	WDSU 1250	WFEA 1340	WGST 890	WHLD 1260	WJAR 890
WCLE 610	WDWS 1370	WFIG 1310	WGTC 1500	WHLS 1370	WJAS 1290
WCLO 1200	WDZ 1020	WFIL 560	WGTM 1310	WHMA 1420	WJAX 900
WCLS 1310	WEAF 660	WFLA 620	WGY 790	WHN 1010	WJBC 1200
WCMI 1310	WEAN 780	WFMD 900	WHA 940	WHO 1000	WJBK 1500
WCNC 1370	WEAU 1050	WFMJ 1420	WHAL 950	WHOM 1450	WJBL 1200
WCNW 1500	WEBC 1290	WFNC 1340	WHAI 1210	WHOP 1200	WJBO 1120
WCOA 1340	WEBQ 1210	WFOR 1370	WHAM 1150	WHTR 1370	WJBY 1210
WCOC 880	WEBR 1310	WFOY 1210	WHAS 820	WHP 1430	WJBW 1200
WCOL 1210	WEDC 1210	WFTC 1200	WHAT 1310	WHUB 1370	WJDX 1270
WCOP 1120	WEED 1420	WFTL 1370	WHAZ 1300	WIBA 1280	WJEJ 1210
WCOS 1370	WEEI 590	WFTM 1210	WHB 860	WIBC 1050	WJHL 1200
WCOU 1210	WEEU 830	WFVA 1260	WHBB 1500	WIBG 970	WJHP 1290
WCOV 1210	WELI 930	WGAL 1500	WHBC 1200	WIBM 1370	WJIM 1210
WCPO 1200	WELL 1420	WGAN 640	WHBF 1240	WIBU 1210	WJJD 1130
WCRW 1210	WEMP 1310	WGAR 1450	WHBI 1250	WIBW 580	WJLS 1210
WCSC 1360	WENR 870	WGAU 1310	WHBL 1300	WIBX 1200	WJMC 1210
WCSH 940	WENY 1200	WGBB 1210	WHBQ 1370	WICA 940	WJMS 1420

WJNO 1200	WLBZ 620	WMGA 1370	WOLS 1200	WRC 950	WSNJ 1210
WJPR 1310	WLEU 1420	WMIN 1370	WOMI 1500	WRDO 1370	WSOC 1210
WJR 750	WLLH 1370	WMJM 1500	WOMT 1210	WRDW 1500	WSOO 1200
WJRD 1200	WLLH 1370	WMLG 1200	WOCB 1210	WREC 600	WSPA 920
WJSV 1460	WLNH 1310	WMMN 890	WOPI 1500	WREN 1220	WSPB 1420
WJTN 1210	WLOK 1210	WMOB 1200	WOR 710	WRGA 1500	WSPD 1340
WJW 1210	WLPM 1420	WMOG 1500	WORC 1280	WRJN 1370	WSPR 1140
WJZ 760	WLS 870	WMPC 1200	WORK 1320	WRNL 880	WSTP 1500
WKAQ 1240	WLTH 1400	WMPS 1430	WORL 920	WROK 1410	WSUI 880
WKAR 850	WLVA 1200	WMRO 1250	WOSU 570	WORL 920	WSUN 620
WKAT 1500	WLW 700	WMSD 1420	WOV 1130	WRR 1280	WSVA 550
WKBB 1500	WMAL 630	WMSL 1370	WOW 590	WRTD 1500	WSVS 1370
WKBH 1380	WMAM 570	WMT 600	WOWO 1160	WRUF 830	WSYB 1500
WKBN 570	WMAN 1370	WNAC 1230	WPAD 1420	WRVA 1110	WSYR 570
WKBO 1200	WMAQ 670	WNAD 1010	WPAR 1420	WSAI 1330	WSYU 570
WKBY 1500	WMAS 1420	WNAX 570	WPAX 1210	WSAJ 1310	WTAD 900
WKBW 1480	WMAZ 1180	WNBC 1380	WPAY 1370	WSAN 1440	WTAG 580
WKBZ 1500	WMBC 1420	WBNF 1500	WPEN 920	WSAR 1450	WTAL 1310
WKEU 1500	WMBD 1440	WNBH 1310	WPG 1100	WSAU 1370	WTAM 1070
WKIP 1420	WMBF 610	WNBX 1260	WPIC 780	WSAV 1310	WTAQ 1330
WKNY 1500	WMBG 1350	WNBZ 1290	WPID 1210	WSAY 1210	WTAR 780
WKOK 1210	WMBH 1420	WNEL 1290	WPRA 1370	WSAZ 1190	WTAW 1120
WKRC 550	WMBI 1080	WNEW 1250	WPRO 630	WSB 740	WTAX 1210
WKST 1250	WMBO 1310	WNLC 1500	WPRP 1420	WSBC 1210	WTBO 800
WKY 900	WMBR 1370	WNOE 1420	WPTF 680	WSBT 1360	WTCN 1250
WKZO 590	WMBS 1420	WNOX 1010	WQAM 560	WSFA 1410	WTEL 1310
WLAC 1470	WMC 780	WNYC 810	WQAN 880	WSGN 1310	WTHT 1200
WLAK 1310	WMCA 570	WOAI 1190	WQBC 1360	WSIX 1210	WTIC 1040
WLAP 1420	WMEX 1500	WOC 1370	WQDM 1390	WSJS 1310	WTJS 1310
WLAW 680	WMFD 1370	WOCB 1210	WQXR 1550	WSKB 1200	WTMA 1210
WLB 760	WMFF 1310	WOI 640	WRAK 1370	WSLB 1370	WTMC 1500
WLBC 1310	WMFG 1210	WOKO 1430	WRAL 1210	WSLI 1420	WTMJ 620
WLBJ 1310	WMFJ 1420	WOL 1230	WRAW 1310	WSM 650	WTMV 1500
WLBL 900	WMFR 1200	WOLF 1500	WRBL 1200	WSMB 1320	WTNJ 1280

WTOC	1260	XEAG	1310	XEBP	1150	XEDS	1400	XEKL	1240	XERC	830
WTOL	1200	XEAI	1250	XEBS	1340	XEDW	1150	XEKR	1280	XERH	1430
WTRC	1310	XEAJ	1400	XEBU	1240	XEE	1210	KEKS	1240	XES	990
WTRY	950	XEAM	750	XEBW	1340	XEF	1450	XEL	1150	XESM	1270
WTSP	1370	XEAO	660	XEBX	640	XEFB	870	XELO	670	XET	690
WVFW	1400	XEAP	1340	XEBZ	810	XEFC	1340	XELW	1340	XETB	1310
WWAE	1200	XEAS	1160	XEC	1150	XEFE	980	XELZ	1370	XETH	1210
WWJ	920	XEAT	1210	XECA	1230	XEFI	1440	XEM	1390	XEU	1010
WWL	850	XEAU	1310	XECH	1490	XEFM	1160	XEME	1240	XEW	890
WWNC	570	XEAW	960	XECL	1110	XEFO	940	XEMO	860	XEWE	720
WWRL	1500	XEB	1030	XECW	1240	XEFQ	1010	XEMU	580	XEX	1310
WWSW	1500	XEBA	1080	XECZ	1370	XEFV	1210	XEMX	1280	XEXB	1270
WWVA	1160	XEBC	1240	XED	1160	XEFW	1310	XEN	780	XEXE	1270
WXYZ	1240	XEBG	820	XEDA	1220	XEG	1230	XENT	910	XEXH	1150
WSXO	700	XEBH	930	XEDF	810	XEH	740	XEP	1160	XEXX	1170
XEA	1400	XEBI	1000	XEDH	1340	XEHK	1230	XEPN	730	XEZ	630
XEAA	750	XEBJ	1340	XEDL	1240	XEI	1370	XEQ	730	YSS	640
XEAC	980	XEBK	1080	XEDM	1400	XEJ	1020	XEQK	1500	ZNS	790
XEAD	1240	XEBL	1220	XEDP	1080	XEJP	1180	XERA	840		
XEAF	990	XEBO	1310	XEDR	1490	KEK	990	XERB	1090		

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25c

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The Radex Publishing Co., 362 Cedar Lane, Teaneck, N. J.

"This Hobby Called DXing"

An outline of the Art of Tuning and an explanation of all the things that perplex the new DXer, was given in an article called "This Hobby Called DXing," which appeared in the January, 1939, issue of RADEX. All radio fans who wish to know how and what to write to radio stations, how to get verifications, how to hear distance, and who wish to understand the

codes, prefixes and abbreviations used in DXing, should obtain this issue of RADEX. It is still available at the regular price of 25c per copy.

If you like RADEX why not tell your friends? When an article in this magazine strikes you as being unusually good, please tell your friends to get a copy at the newsstands, and read it.

Answers to the Radex Radio Riddle

The letters given below give the correct answers to the questions. By allowing yourself 20 points for every three that were right you will find that a score of 60 is only fair, 80 is very good, and higher is excellent.

- 1. c 8. b
- 2. b 9. c
- 3. d 10. c
- 4. b 11. b
- 5. d 12. c
- 6. a 13. c
- 7. b 14. d
- 15. a

NEW CANADIAN

The Manager of station CKNB, Mr. C. S. Chapman, advises us that his station was ready to commence operating on or about December 22nd. This new Canadian broadcaster is located in Campbellton, New Brunswick, and transmits on 1210 kcs. with 250 watt power. The address of this private commercial station is P. O. Drawer 840, Campbellton. It is affiliated with the Canadian Broadcasting Corporation.

Mr. Chapman has asked us to assure DXers that, while verification cards may not be immediately available, CKNB will gladly issue letters of verification to all who send correct reports, accompanied by return postage.

ORDER FORM

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Teaneck, N J.

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Material is to be sent express collect from New York or Chicago, depending upon cheapest route. Where part payment is made it is understood that order is subject to acceptance of supplier. (Time payments apply to U.S. only).

Name Street Address

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State Please give shipping point if different from

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Selected Back Numbers

The Oceania Broadcasting Stations, Sept. '38.

Tuning South Pacific Stations, Tuning South Americans, and a list of South American Broadcasting Stations, Oct. '38.

Dialing the Europeans, Nov. '38.

Dialing the Asiatics, Dec. '38.

This Hobby Called DXing, the International Prefixes, the QSA and R Codes, Jan. '39.

Stations of France and Norway, March '39.

Stations of New Zealand, April '39.

Television is Here, list of Television Stations, the stations of Colombia, China, and Venezuela, Midsummer '39.

Stations of Costa Rica and Venezuela, Sept. '39.

The World's Broadcasting Stations, Sept. '39.

These past issues are still available at the regular price of 25c each or five for a dollar.

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The Trimm "Featherweights" weigh but $4\frac{1}{4}$ ounces complete. 24,000 ohms. **\$8.50**

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Enclosed find \$..... for which send me postpaid my choice of your offers as checked below:

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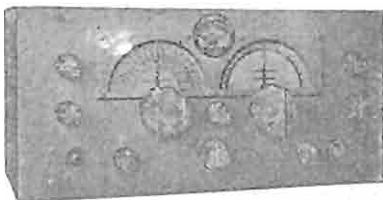
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OFFERS YOU

THE RME 69



THE RME 69

RME 69

\$152.88 Cash Price

Complete With
Tubes, Crystal
and Speaker

Term Payments

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8 Months \$16.78 ea.

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⊙ **TUNING RANGE.** RME-69 employs six separate bands tuning from 550 kcs. to 32000 kcs. The amateur bands have been allocated so that practically no pointer change is required when shifting from one band to another except on ten meters.

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Radio is a growing field with a future. It offers you many good pay spare time and full time job opportunities. And you don't have to give up your present job, go away from home, or spend a lot of money to become a Radio Technician. I train you right at home in your spare time.

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Radio broadcasting stations employ engineers, operators, technicians and pay well for trained men. Radio manufacturers employ testers, inspectors, foremen, servicemen in good pay jobs with opportunities for advancement. Radio jobbers and dealers employ installation and servicemen. Many Radio Technicians open their own Radio sales and repair businesses and make \$30, \$40, \$50 week. Others hold their regular job and make \$5 to \$10 a week fixing Radios in spare time. Automobile, police, aviation, commercial Radio; loudspeaker systems, electronic devices, are newer fields offering good opportunities to qualified men. Television promises to open many good jobs soon.

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**J. E. SMITH, President
National Radio Institute
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Washington, D. C.**

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