

# RADIO IN DEX

The All-Wave Radio Log Authority

NSE

No. 142

MARCH - APRIL, 1941

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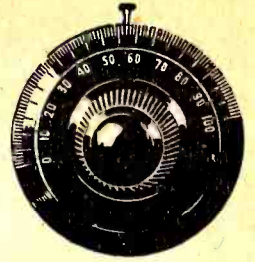
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# RADIO IN DEX



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SEVENTEENTH YEAR

MARCH 1, 1941

NO. 142

Page Taylor, *Editor*

Ray LaRocque, *Eastern Editor*

B. Francis Dashiell, *Technical Editor*

Melvin Fisher, *Western Editor*

Owen P. Callin, *Amateur Editor*

## Radexing with the Radexers

By RAY La ROCQUE

Contestants in the big RADEX championship prize contest seem to have been very active during the past couple of months. Let's glance at what some of our Radexers are doing in the contest. In this division (broadcast band) Peter C. Landry of Montreal seems to head the group with 651 points. Harold Hutton of Rome, N. Y. has 415 points, Weston Richards of Zion, Ill. has 340, Chester Stedman of Westerly, R. I. has 243, and Norman Mc Guire of Stamford, Conn. pulls up in fifth place with 241. Many others follow in close succession, and it begins to look as if there will be a lot of competition as soon as the requested veries begin to come in.

A bomb burst in the midst of the Supremacy listings this month! This, in the form of a letter from David Thomas of Proctorville, Ohio, sort of changes the standings in many divisions and creates new leaders in some of them. Here they are:

**SUPREME SUPREMACY:** For the total number of stations verified:

Thomas—Ohio	.....2393
Becker—Ohio	.....1350
Botzum—Penna.	.....1210
Forestieri—N. Y.	.....1028
Horton—Mass.	..... 981

**BEGINNER'S SUPREMACY:** Total number of stations verified by

DXers who have been verifying stations two years or less:

Richards..Ill.	....20 mo.	414
Landry—P. Q.	...17 mo.	376
Blinn—Kans.	....22 mo.	291
Metcalf—Ohio	...12 mo.	269
F. Lee—N. J.	....24 mo.	262

### OLD TIMER'S SUPREMACY:

For the oldest dated verifications:

Podall—Vt.	.....Nov.	1916
Barnhart—Pa.	.....Feb.	1923
Allen—Calif.	.....Dec.	1923
Thomas—Ohio	....Mar.	1924
Jordon—Penna.	...Aug.	1924

**S. A. SUPREMACY:** For the most South American stations verified:

Reichardt—Mass.	.....35
Botzum—Penna.	.....32
Forestieri—N. Y.	.....19
Burnham—Mass.	.....17
Lippincott—Me.	..... 9
Barnes—Ill.	..... 9

Readers living in the Eastern and Central Standard Time Zones may send their report direct to  
Ray LaRocque  
105 Highland St.,  
Worcester, Mas.  
(Please use EST in reports)

**T. A. SUPREMACY:** For the most Trans-Atlantic stations verified:

Reichardt—Mass. ....	158
Botzum—Penna. ....	33
Lippincott—Me. ....	29
Forestieri—N. Y. ....	23
Burnham—Mass. ....	14

**T. P. SUPREMACY:** For the most trans-Pacific stations verified:

Reichardt—Mass. ....	84
Tarr—Wash. ....	50
Botzum—Penna. ....	25
Lippincott—Me. ....	18
Forestieri—N. Y. ....	7

### **CLUB BUTTONS—STATIONERY**

In this issue we launch here and now our official campaign for club buttons, seals, and stationery for RADEX Club members. The tabulation of names in favor of the plan begins here and will continue in each issue until 100 members have signified their approval of the plan. When we have reached 100, then your Radexer in chief will deposit the list into the hands of the powers that be and say, "there, Mr. Boss, are one hundred members who want club emblems."

The names:

- 1.—John D. Long, Dalton, Ga.
- 2.—Ed Medric, Brooklyn, N. Y.
- 3.—Roy Woollacott, Rochester, N. Y.
- 4.—Henry Bennett, Collingswood, N. J.
- 5.—Robert Mc Connell, Middletown, Ohio
- 6.—Clarence L. Mustoe, Brady, Mont.
- 7.—Weston Richards, Zion, Ill.

### **PERSONALITIES:**

Many happy returns of the day to Radexer Frederic T. Krueger, who was 72 years young last month! . . . Welcome back into the DX game to Bob Gilchrist who will be remembered for his association with the old Interstate Radio Association. . . A new Hallicrafters Defiant graces the listening post of Malcolm Horlick of Youngstown, Ohio.

### **THIS 'N' DATA**

Because they obtained their construction permits by a false statement

of ownership, WTMC in Ocala, Fla., and WDLP in Panama City, Fla. have had their licenses revoked by the F. C. C. . . . WSUN takes over the facilities of WFLA on 620 kcs., and WKGA in Tampa is awarded the choice call letters—WFLA! . . . After many long years of refusing, the FCC finally looks with favor upon granting WHDH full time on 830 kcs., much to the woe of KOA! . . . New call letters assigned: KBWD to Brownwood, Texas, WPER to DeLand, Fla., WHLN to Harlan, Ky., KPOW to Powell, Wyo., KSWO to Lawton, Okla., WKRO to Cairo, Ill., WMAW to Worcester, Mass., WRLC to Toccoa, Ga.

WAAB was granted a new license by the FCC, but was told to be a good boy hereafter, or else!! It seems WAAB has adopted a policy of broadcasting editorials urging the election of certain political candidates which is considered to be against good radio ethics. A station should remain constantly neutral in political matters. . . . A new station for Greenwood, S. C. with 250 watts on 1420 kc. . . .

### **BITS AND TIPS**

From our readers! Glen Thorman wants to know if it's too late to enter the RADEX contest. It's never too late, Glen. . . . Say, can anyone help Vern Lee Gibbs, Rt. 5, Lexington, Ky. identify the all night Spanish speaking station on 1150 kcs! . . . For those who do not already know, G. L. Banta reminds listeners that the FCC checks provide excellent opportunity to boost your score in the RADEX contest. . . . N. Bernard Boonin, 246 So. Fairview Ave., Upper Darby, Penna. wants to know what station he heard in back of KTRH at 2:00 a.m.

WBAL took a month to answer then verified by air-mail. . . . There is no known "Northern California Network" according to Bill Gabriel, Jr., but the California Radio System is comprised of KSAN KFBK, KMJ, KERN, KFWB, KFOX, KFSD, KTMS, and KOH. This is for Wes-

ton Richards. . . . Peter Landry up in Montreal wants to know about the Spanish speaking stations on the air Xmas morning on 1030 kcs. and 1160 kcs.

The following choice bits are from the same Pete Landry for all and sundry who care to make use of them : Stations on the air before 5:00 a.m. are WMCA, WIP, WPIC, WMMN, XERA, XENT, WCAR, WEDC, WOL, WNEW, WNOE, KXYZ, WWSW and WJBK.

On at 5:00 a.m. are: KYA, XEAW, WBT, WCAU, KUOA\* and WHIS.

On at 5:30 a.m. are: WCHS, WIBW, WPTF, WJR, KFAB\*, WHAS, WRNL, KMA, KDKA, XEG, WRVA, and WWVA.

On at 5:45 a.m. are WHIO, WNEL, and WCKY.

On at 6:00 a.m. are: WGR, WFIL, KWTO, WSYR, WEEL, WKZO\*, WCAO, WICC, WROL, WPRO, CFRB, WOR, CKAC, WEAN, CKSO, KOAM\*, CBL, WKAR, WWL, WLS, WBEN, WWJ, WSPA\*, WDBJ, WAAT, WTRY\*, WRC, WBZ, KNOX, WHN, CKLW, WTIC, WBAL, WTAM, WCOP\*, WSAZ, WSAM, WNAC, WFBR, WSAI, WSPD, WFBL, WING WHIS, WBNS, WOOD, WBIG, WJSV, and KITE.

On at 6:30 a.m. are: WDEV, CHRC, CKCL, CFCF, KXOK\*, WHKC, WSM, WEF, WGN, WSB, WJJZ, WEW, WTAR, WGY, WBAP, WHDH, WABC, WHB\*, CBF, CBM, KMOX, CHSJ, WAPI, WHAM, WMAZ, CKCH (6:40), WXYZ, WDOD, WJHP\*, and WBBR.

On at 7:00 a.m. are: WTMJ, KOWH\*, WCCO, WCSH, WEAU, WIBC\*, WMBI, CHLP, WJJD, WOWO, WCAE, WNBX, KLCN, and WKBW. (All of the previous are the observations of Friend Landry who has marked his most difficult catches with an asterisk and tabulated them as they would appear on your dial from 550 kcs. down the line to

1550 kcs!)

George Wetherell and Jim Davis both come to the aid of Hank Bennett in his query about the piece played before "God Save The King" on Canadian network stations. It is "O Canada". . . . Residents of Penn Yan, N. Y. are petitioning the FCC for a new station to serve the picturesque "Finger Lakes" region, according to Roy Woollacott. . . . Oops! We nearly forgot to mention that Arnold Worme was one of these who also answered the "O Canada" query.

Robert Koppelon of Newark, N. J. pays high praise to communications receivers when he says that he can't see how anyone using a set like these (communications) receivers can get any fun out of DXing since it can pick up anything on the air. . . . While some communications receivers are very good, we hardly believe any of them can live up to Radexer Koppelon's expectations. Too many other factors besides a good receiver enter into the matter of hearing everything on the air to even think of such a thing. There is the matter of location, antenna, ground system, and what is more important, atmospheric conditions. . . . A threat, a warning, or what have you comes from Bob Gilchrist who says he has made a slow start in the RADEX Contest, but is going to make a very strong finish!

#### P. O. BOX R9

ASHEVILLE, NORTH CAROLINA—William Waldman, "I am 18½ years of age and have a Kadette 7 tube and a Truetone 11 tube radio. I had a 4 tube T. R. F. set which I used in Chicago where I was able to log KOA in Denver and WTIC in Hartford. Cubans were common on that set which was 10 years old!"

WASHINGTON, R. I.—Phillip Potter: "WJEJ says that my cards are the first reports from Rhode Island."

STRATHROY, ONTARIO—Charles A. Mills: "First, here is a summary of one year of DXing on this radio—a Philco 17 T on the broadcast band. 488 stations with 141 verifications received and reports out to several more. This includes all states except Arizona, Idaho, Nevada, and New Mexico. The California stations have been coming in better so far this season than last year."

WEST MONTREAL, P. Q.—Arnold F. Worme: "I'm using an Espey 5 tube superhet with built in antenna (loop) and a 40 ft.  $\frac{1}{2}$  wave doublet tuned to 25 meters on the roof. Although the set has no band spread, I find it has plenty of power and selectivity. My broadcast band totals 73 stations, 61 in the United States, 12 in Canada, with WOAI in San Antonio the southernmost, and WHO in Des Moines, the farthest west."

PORT CREDIT, ONTARIO — Fraser Hendrick: "Port Credit, as you probably know is on Lake Ontario, 14 miles west of Toronto. I put up a new 110 ft. antenna for DX-ing this year. With this antenna and a 5 tube Westinghouse receiver I was able to log the following at 11:30 a.m. until 2:00 p.m.: WSB, WHOM, WLTH, KITE, WDG, WSPR, WLAW, WLAC, WBIG, WCSH, WIRE, WTMJ. Has any DXer living within 200 miles of Detroit, ever been able to get a veri from WJR?"

DULUTH, MINNESOTA—Nils J. Nordstrom: "May 13, 1939 was the start of one of my hobbies. This one is called 'DXing' and it began about fifteen days after we purchased our first radio. This is a six tube table model Airline with a range from 535 to 1720 kcs."

NEWBURG, NEW YORK—Don Reynolds: "I've just about given up ham and shortwave DXing because of the war. Now I'm concentrating on my old favorite, the broadcast band. The Cubans literally swamp the dial here at night. A few SA's manage to break through now and

then. I have reports out to CB11 and HJ1ABN. The TA stations have not given a peep so far this season the TP's have been quite active on a few occasions. I heard 13 of them one morning, but none lasted long enough for a good report."

ST. LOUIS, MISSOURI—Arthur J. Kimble, 4643 Page Blvd: "I have been hearing two Spanish speaking stations on the broadcast band, but have been unable to log them because all announcements have been in Spanish. Could you tell me if at any time these stations announce in English. They come in on 690 kc and 730 kcs." (The 690 kc. station is CMQ in Havana which occasionally announces in English on the quarter hour—RL).

TERRA ALTA, W. VA. — Joe Jones: "The receiver here is an SX 24 HALLICRAFTERS with a Guthman U-42 preselector. The broadcast band has been rather noisy so far this season. Here is a list of all night broadcasting stations: WWSV, WJBK, KXYZ, KSAN, KFAC, KL, WNEW, WOL, WEDC, KRKI, KJBS, KWJJ, KFVD, WIP and WMCA."

ROCHESTER, PENNA. — A. Schleiter: "I started a new log of stations on October 20th and have 30 stations in just 41 days—a very poor record. I have had double that in one month."

PORT RICHMOND, N. Y.—Peter A. Clarius: "This is my first report of the season to RADEX. New stations logged are: KRKD, WPIL, WKPT, WHUB, WBRW, WHK, WGTC, WFPG, WBML, WKI, KYAN, WAOV, KXOK, WLO, KPHO, WMJM, WLOG, WSOC, WINN, KMJ, WJPR, WST, WFHR, WTM, WJHO, WCN, WMOG, WLBJ, KFXJ, KENC, WKNE, XEU, WJOB, WBL, KUOA, WTAG, WPAB and WARR. WFPG is now verifying with a very attractive card and they ask that reports be sent to the "Steel Pie" in care of Blair Throm, chief engineer."

HARTFORD, CONN.—Leon Prague: "Having just joined the RADEX Club, this is my first report. During my first year as a broadcast band DXer, I have heard 213 stations and verified 38 on an Emerson 4 tube radio."

STRATHROY, ONTARIO—Lorne Mitchell: "I have been DXing only a month, having been introduced to the hobby by Radexer Charles Mills here in Strathroy. I am using a 1931 Rogers Radio at the present time. I have logged a hundred and seventeen stations on the broadcast band and have written for 49 verifications. To date I have 22 replies."

MILWAUKEE, WISCONSIN—Fred Borchardt, 5103 N. Sherman Blvd: "I would like very much to receive information regarding FCC tests or any DX programs conducted by stations in Maine, Vermont, New Hampshire, Wyoming, and Delaware."

UPPER DARBY, PENNA.—George Wetherill, Jr., 247 So. Carol Blvd: "Does anyone know the power of the station on 550 kcs. at the George Washington Bridge? Is there any chance of my picking it up? Would you please tell me of any other non-commercial Broadcast band stations that I have a chance of hearing. Both Nat Boonin and I hear code stations on 900 kcs. and 940 kcs. in the daytime, and at night on 580 and 630 kcs. Are these harmonics, images, or real stations? I notice that someone reported hearing a M-1 in Boston Harbor. Are there any such stations in Philadelphia?"

RIDGEWOOD, NEW JERSEY—Lloyd Rees: "How is this for daylight reception? Noon on Dec. 28, 42° Fahrenheit, raining: WGR, WTAG, WEEI, WLBZ, WLAW, CKAC, CBL, WBEN, WFMD, CBF, KDKA, CBA, WSPR, WDAS, WJSV, WKBW, WTAM, WBT, and WHAM."

ASTORIA, NEW YORK—Joseph Janata: "I recently bought a new Howard Model 435 and like it very

much. A verification from WADC arrived after 11 months of waiting. Could this be a record?"

TORONTO, ONTARIO—Jim Davis: "I bought my first copy of RADEX a few days ago and I think it is by far much better than any other radio magazine: I am using a Spar-ton Model 253 with a 100 ft. aerial. Log is 180 stations on the broadcast band."

CHICAGO, ILLINOIS—Blake H. Page: "I've been DXing since 1922 when radio was an infant. Some of my verifications date back to 1923 or 1924. I believe I have heard some 1500 or more stations. I'm now using my third Scott receiver since 1932—which is when I first started to use RADEX. For daytime records, I have heard as far south as WWL, east to WBZ, north to WEBC, and west to WOW."

## COVERING THE CONTINENTS

### Domestic Dialings

"W" Calls In The East: WLAW came on the air at 4:15 p.m. on December 1 with its new 5 kw. transmitter. . . . WJAR and WBRY also have permits for 5 kw. . . . WOCB is operating from West Yarmouth, a part of the town of Yarmouth. . . . WFPG stands for "World's Favorite Playground." . . . WKNY is located in the Gov. Clinton Hotel in Kingston. . . . WESX signs on at 8 a.m. on Sunday. . . . Has WRTD been deleted? (Yes—RL). . . . What station uses or has used the call KCFI. (Roger F. Scott, Whitinsville, Mass.)

WEEI, now on from 6:00 a.m. to 1:00 a.m. is scheduled soon to come on the air at 4:45 a.m. . . . WNAC from 6 a.m. to 1:15 a.m., WBZ from 6 a.m. to 1 a.m., WCOP from 6 a.m. to 4:30 p.m., and WHDH from 6:30 a.m. to 7 p.m. . . . WAAB is from 7 a.m. to 2 a.m., WORL from 7 a.m. to 4:30 p.m., WMEX from 8 a.m. to midnight, WLAW, from 6:30 a.m. to 1:15 a.m. WESX and WLLH both come on at 6:30 until? . . . WGAN is now using its 5 kw. (Stanwood R. Morss, Bradford, Mass.)

WGN verified by duplicate letter which says the issuing of verification cards and stamps has been discontinued. . . . WBTM verified by letter with Danville, the World's Best Tobacco Market printed across the bottom. . . . WMSD, KWYO KADA, and WJR have verifications showing their antenna towers. (Fred Binkley, Jr., China Spring, Tex.)

WEAF on 660 kcs. has a new transmitter at Port Washington, L. I. They sent an eight page folder on the station. . . . The following new stations are now on the air: WKPA, WGAC, WLAV, WBLJ, WSOO, WAKR, WDAK. . . . WMAL comes on at 6 a.m., KUOA on at 5 a.m., (Charles A. Mills, Strathroy, Ontario)

It is three years since WLAW took its place on the air with the many other stations throughout the United States and in that space of time they have done a great service to the public and its many listeners. On the WLAW inaugural program it was announced that WMUR on 610 kcs., the station owned by Gov. Murphy is under construction. (Matthew E. Leshner, Lawrence, Mass.)

WMRO's card is printed in silver and black with call letters in red, and the blanks filled in with green ink. The card is a glossy white. . . . WMCA is inaugurating a new policy, going on a 24 hour schedule. Important note in schedule is the curfew on jazz at 2:00 a.m. until 7:00 a.m. This time will be filled with soft music, poetic readings, impromptu guest appearances, etc. . . . (George Wetherill, Jr., Upper Darby, Penna.)

WEEU has a test program every Monday morning at 6:30 a.m. . . . WTCN's card is in red, white, and blue with the American Flag pictured on it. . . . WGY sent three stamps showing views of the transmitter. . . . WTAM has a DX tip program every Saturday night at 11:15 p.m. . . . WINX was heard on their test programs. (N. Bernard Boonin, Upper Darby, Penna.)

WAAT sent a card with large red letters on it. . . . WKIP operate from 7:00 a.m. to 12:05 a.m. on week days and from 8:00 a.m. to 12:05 a.m. on Sundays (N. Bernard Boonin)

WFBR in Baltimore is Maryland's pioneer broadcast station and operates daily from 7 a.m. to midnight. . . . WSAJ operates from 6 a.m. until 2 a.m. daily. On Sundays they come on the air at 8 a.m. (Elwin I. Gleason, Moosic, Penna.)

WLAP is going to change frequency and power. WSOY took 10 months to verify. . . . KOTN has changed from 100-250 watts. (Vernon Lee Gibbs, Lexington, Ky.)

WICC is on the air at 6:00 a.m. until 2:00 a.m. . . . WGAN is now on from 7 a.m. to midnight. (Lee I. Johnson, Portland, Me.)

WJAX have finished remodeling their studios and expect to increase their day and night power to 5 kw. When completed their fidelity will not be equaled by any station east of Louisiana and South of Carolina, except for WSB! (Ed Medric, Brooklyn, N. Y.)

WJEJ -verified with a full color post-card showing a moonlight scene of their transmitter. (Edward Landsky, Dorchester, Mass.)

WROL is now on 620 kcs. . . . WJHL is now on 880 kcs. . . . WSPR begins broadcasting at 6:00 a.m. and signs at 5:00 p.m. (William Walman, Asheville, N. C.)

WSPR is now testing on 1240 kc. . . . WINX, Washington's newest broadcasts a full hour of news from 12-1 a.m. nightly. . . . (Bob Gilchrist, New York, N. Y.)

WOLF in Syracuse was very pleased with the report I gave them concerning their daytime signal strength here in Rochester. They verified by letter stating that they would like other reports from other DX friends of mine. The stamps I enclosed were returned! (Roy Woollacott, Rochester, N. Y.)

KEUB's card is in red and black. . . . WAYX is in black with call letters in green. KFXJ's card shows



picture of their new transmitter. (Harold Blinn, Arkansas City, Kans.)

WSPA verifies with a very appreciative letter. . . . WBAL sends large advertising blotters with their verification. (Fred Borchardt, Milwaukee, Wis.)

WGBF heard on their new frequency of 1250 kcs. in the evening with an R7-8 signal. (Bill Gabriel, Lakewood, Ohio)

WHBI, in my last report, was classed a religious station, but I found out later that it was KUOA that I was hearing. (Leon Prague, Hartford, Conn.)

WOLF's verification was signed by Lawrence A. Reilly, chief engineer. (Lester Balcom, Malden, Mass.)

WKAQ can be heard signing off at 10:05 p.m. with the Star Spangled Banner. (Norman H. Kane, Drexel Hill, Penna.)

WKNE's verification was received two days after mailing the report. WKNE uses 5 kw. (Norman L. Maguire, Stamford, Conn.)

WJHL and WKPT both operate from 6 a.m. to 11 p.m. . . . WBIR will operate the same schedule starting in January. . . . (Bill Scott, Johnson City, Tenn.)

WDEF on 1370 kcs. is on the air daily until midnight. . . . WBLJ our new station in Dalton is on the air from 7 a.m. to midnight with 250 watts. C. W. Roberts is the chief engineer. (John D. Long, Dalton, Ga.)

WGR and WSYR sign on the air at 6 a.m. . . . WGAC was heard R3 through WEDC. (Weston Richards, Zion, Ill.)

"K" Calls In the West: KUOA is heard with R8-9 signal every morning. They send a post-card with big red letters in the upper left hand corner. (N. Bernard Boonin, Upper Darby, Penna.)

KYW is now using their 50 kw. This greatly adds to the strength of the signal in urban Philadelphia. XERA is pretty well eliminated, now. (Norman H. Kane, Drexel Hill,

Penna.)

KMA has an early morning program and the station comes in like a local until WPEN comes on the air. . . . KOWH can be heard with a nice signal in the early morning even after WEAf's carrier is turned on. . . . KENO is the first Nevada station that I have heard, but my report, out over a month has not been answered yet! (George Wetherhill, Upper Darby, Penna.)

KXOK is now operating on 630 kcs. . . . KYW is going to need more than 50 kw. in order to lick XEAW here. (Roy Woollacott, Rochester, N. Y.)

KGA on 1470 kcs. operates daily from 10 a.m. to 3 a.m. using 5 kw. . . . KWK operates daily from 7:00 a.m. to 1:30 a.m. and Sundays from 8 a.m. to 1:30 a.m. (Elwin L. Gleason, Moosic, Penna.)

KITE's verification stationery shows a large kite flying among the clouds. . . . KGIR's verification message is on a sheet of copper! (Fred Borchardt, Milwaukee, Wis.)

KPO, KNX, KHJ, KFAC, KGO, KMJ and KFVD can be heard regularly in the early morning. . . . KFI signs off at 3:15 a.m. . . . KFWB has been heard around 2 a.m. . . . KRKD has been logged between 3 - 4 a.m. . . . KERN (1380 kcs.) signs off with newscast at 3:00 a.m. . . . KFBK on 1490 kcs. signs off at 3:00 a.m. . . . KVI also signs off at 3:00 a.m. (Charles A. Mills, Strathroy, Ont.)

KWAT in Watertown, S. Dak. verified in 29 days. The slogan is "The Voice of South Dakota." (Robert Mc Connell)

KWIL in Albany, Oregon on 1210 kcs. has been heard with equipment tests. (Joseph Jones, Terra Alta, W. Va.)

KGFJ on 1200 kcs., KROY on 1210 kcs., and KSAN on 1420 kcs. are still on the air during the FCC tests. Can anything be done about it? (If they interfered with the FCC's monitoring of the stations they would be asked

to remain silent—RL)

**Bahamas:** ZNS has been heard occasionally through WGY. News from London was heard at 7:45 p.m. On verification, both the shortwave and broadcast band stations are listed. (George Wetherill, Jr., Upper Darby, Penna.; Roy Woollacott, Rochester, N. Y.; and Peter G. Landry, Montreal, P. Q.)

**Canada:** CKCL on 580 kcs. is being heard here well with their increase in power to 1000 watts. . . . CBR on 1100 kcs. is heard several times weekly. . . . CHNC signs off at 11 p.m. which is midnight Canadian time. . . . (Edward Laudansky, Dorchester, Mass.)

CBW in Windsor is listed in a Toledo, Ohio newspaper on 600 kcs. Has anyone any information on this station? (Bill Gabriel, Lakewood, Ohio)

VE9BC in Revelstoke, B. C. on 840 kcs. with 20 watts is the first of a number of small broadcasting stations being installed by the CBC in certain sections of British Columbia and Northern Ontario, where residents have poor reception because of natural barriers. The station is in charge of the Telegraph Line Repeater Operator at Revelstoke, who feeds all CBC network programs, sustaining and commercial through this low powered transmitter, which is powerful enough to service the residents of this mountain area. The station does not sign off or on, as no microphone is located at this point. Its present experimental call letters will be changed shortly and a call similar to other CBC stations will be given the station. Similar stations are to be built at various points and small settlements throughout the Rocky Mountains along the two Canadian Railway lines. Later it is planned to have these stations in Northern Ontario, north of Lake Superior. (George Wetherill, Jr., Upper Darby, Penna.)

CBY in Toronto is going to in-

crease its power from 100 to 1000 watts and a new antenna is going to be built outside the city limits. As it is now, CBL carries all commercial programs of the CBC because CBY has not enough power to be heard far out of Toronto. CBY now carries quite a few programs of the MBS. (Jim Davies, Toronto, Ontario)

CFRC on 1510 kcs. in Kingston, Ontario verified by a government post card. (Roy Woollacott, Rochester, N. Y.)

CBA in Sackville on 1050 kcs., CBK in Watrous on 540 kcs., and CBL in Toronto on 890 kcs. can all be heard on Saturday nights from 8 p.m. with hockey game broadcasts. . . . CKCL on 580 kcs. is another Canadian station having verification stamps. . . . CKTB has a black card with large silver letters. . . . CHML on 1010 kcs. has a card with a green picture of studio building with message printed over the top. . . . **NOTE:** Some Canadian stations will be noticed to be giving the time one hour ahead of other stations in the same time zone. This is because of a government regulation stating that cities on Daylight Saving Time in the Summer would remain on it for the duration of the war. (Charles A. Mills—Strathroy, Ont.)

**Newfoundland:** VONF on 640 kcs. is not heard very well lately. They relay B. B. C. news from London at 8 p.m. They sign off at 9:30 p.m. (Roy Woollacott, Rochester, N. Y.)

VOCM is listed on 1006 kcs. in a Newfoundland newspaper. (Edward Laudansky, Dorchester, Mass.)

### Latin America

**Argentina:** LRA is heard almost every morning from 1:30-3:30 a.m. with a four tone whistle and station announcements in Spanish and English. (George Wetherill, Peter C. Landry, Roy Woollacott, N. Bernard Boonin)

LT-3 is the one South American I have heard this season. (N. Bernard

Boonin)

**Colombia:** HJAN was heard with an R9 signal and verified through WOAI. As soon as WOAI signed the Colombian came in fine. . . . HJCZ is heard on 1040 kcs. over WTIC and KRLD! Some nights these stations cannot be heard, and then HJCZ puts in an R6 signal. . . . HJBJ in Santa Marta has been heard several times in the early mornings. (George Wetherill, Jr., Upper Darby, Penna.)

HJAN on 1190 kcs. heard one evening for four consecutive hours. The time from 8 p.m. to midnight. They were also on Christmas morning as was HJAH on 1080 kcs. (Peter C. Landry, Montreal, P. Q.)

**Costa Rica:** TIGP on 625 kcs., TIEP on 825 kcs., and TILS on 880 kcs. was heard Christmas morning. (Peter C. Landry, Montreal, P. Q.)

TIPG on 625 kcs. can be heard as early as 7:30 p.m. with an R4 signal. Has anyone ever received a veri from this station? (Roy Woollacott)

TI4NRH heard with a fair signal but QRM'd by WGN. They were heard much better after 2:00 a.m. (George Wetherill)

**Cuba:** CMBH on 1600 kcs. is heard R9 plus. Report has been out four months and no verification yet! . . . CMBC is now operating on a frequency of 780 kcs. They are heard R9 plus. . . . CMKG is heard on 1000 kcs. using 10 kw. (Vernon Lee Gibbs, Lexington, Ky.)

CMQ's card has a picture of their transmitter and is printed in brown on white. (N. Bernard Boonin)

CMOX on 1510 kcs. is heard almost every night with American music. (Weston Richards, Zion, Ill.)

CMKN on 640 kcs., CMHQ on 670 kcs., CMQ on 690 kcs., CMCF on 810 kcs., CMHI on 830 kcs., CMX on 880 kcs., CMCK on 970 kcs., are being heard regularly in the evening. . . . CMCY on 590 kcs., CMCD on 630 kcs., CMBL on 720 kcs., CMK on 750 kcs., CMKU on 770 kcs., CMCM

on 850 kcs., CMBX on 1180 kcs., and CMOX on 1510 kcs. are heard occasionally in the evening. (Peter C. Landry, Montreal, P. Q.)

**Ecuador:** HC2AJ was heard on their DX program with a weak signal. (George Wetherill, and Fred Benkley, China Spring, Texas)

**Guatemala:** TGW on 1520 kcs. should, by the time this appears in print, be using their new 10 kw. transmitter. (RX)

There is a low pitched heterodyne from another Spanish speaking station on TGW. Who is it? (Roy Woollacott)

**Mexico:** XEH on 740 kcs. has been heard several times on Sunday morning with special DX programs. . . . XEL on 1150 kcs., and XESM on 1400 kcs. heard regularly every a.m. (Peter C. Landry)

XERA, XEAW, and XENT took long enough to answer my reports, but now they're over-doing it To date I have 3 XERA cards, 2 XENT cards, and one from XEAW. . . . (George Wetherill)

XEL on 1150 kcs. is heard very well around 2 a.m. They announce their call letters in English. . . . XEG is now operating on 1050 kcs. They broadcast both Spanish and English programs. . . . XEW is heard all evening with strong signals. All programs are in Spanish. (Roy Woollacott)

XEQ on 730 kcs. in Mexico City has a program from 12:30-1 a.m. consisting of American dance tunes. . . . XEMO on 860 kcs. can be heard most mornings until 3 a.m. . . (Charles A. Mills)

XENT on 990 kcs. now and can be distinguished between KDKA and WHO. Nill J. Nordstrom, Duluth, Minn.)

XEH was heard testing new RCA equipment and urgently requesting reports. . . . XECL is on till 3 a.m. with a program for the United States. (Weston Richards)

**Panama:** HOK verification received for report on special DX program.

**Puerto Rico:** WKAQ on 1240 kcs. is heard well beginning at 6 p.m. The call letters are announced in English on the half hour. (Roy Woollacott)

**Uruguay:** CX-6 on 650 kcs. verification received. (Peter C. Landry)

**Venezuela:** Delete from service: YV5RR on 1010 kcs., YV5RD on 1450 kcs., YV5RQ on 882 kcs., YV5RE on 1110 kcs., YV4RI on 1450 kcs.

**Frequency Changes:** YV1RD from 1153 to 1150 kcs., YV3RE from 1475 kcs. to 1470 kcs., and YV5RB from 1200 to 790 kcs.

**Call Changes:** YV3RC—"La Voz de Lara (1270 kcs.) changed to YV3RA—"Radio America"; YV5RG—"Ondas Populares" (1010 kcs.) changed slogan to "Emisoras Unidas Ondas Populares—Estudios Univer-so"; YV4RL (1430 kcs.) uses slogan "Radio Maracay"; YV4RG—"Radio Marconi" (1153 kcs.) is now YV4RD on 1150 kcs.; YV5RX—"La Voz de la Patria" (720 kcs.) now uses YV5RH with same slogan and frequency.

**Location Changes:** YV5RL—"Radio Tropical" on 1160 kcs. from El Valle to Caracas. (Jose Carriazo, Jr., Havana, Cuba)

**QUERY:** A Latin American puzzling Norman Kane and George Wetherill on 825 kcs. is evidently TIEP in San Jose, Costa Rica using 500 watts.—RL, Mass.

#### **Tuning the TA's**

**France:** "Radio Nationale Francaise" is by far the best heard TA' station this season on its 1393 kcs. channel. From the type of programs and announcements we judge that this station is undoubtedly the former "Radio Lyons" with increased power. A sister station to this is heard on 1321 kcs. usually operating in parallel which can be the former "Radio Mediterranee" at Antibes, France. These stations were reported by Radexers George Wetherill, and Norman Kane. (RL—Mass.)

"Toulouse-Pyrenees" on 775 kcs. and "Lyon La Doua" on 648 kcs. were heard on Jan. 8 for my first TA

reception. (Peter C. Landry).

"Radio Toulouse" on 913 kcs. has been heard spasmodically throughout the winter season, but Paris Mondial, and Rennes along with "Radio Normandie" are absent this season. (RL—Mass.)

**Germany:** A German speaking station was heard on approximately 630 kcs. in the early morning with a good signal. Can anyone identify it? (May have been the former Vigna, Norway station on 629 kcs., using 100,000 kw.—RL) Question supplied by George Metherill.

Hamburg was heard on Christmas morning with a fair signal and fading badly. I managed to get a report out to them, but whether they reply is doubtful. (George Wetherill)

Stations speaking a language believed to be German were heard on 850 kcs. (Probably Stavener—Norway—RL) on 720 kcs. (Probably Jaarsveld, Netherlands—RL) and on 660 kcs. the latter which was undoubtedly Cologne. All these were heard from 1:10 a.m. to 3:30 a.m. (Peter C. Landry)

**Great Britain:** "Home Service Stations" on 667 kcs., and 767 kcs., were heard with R3 and R4 signals respectively. (Peter C. Landry)

The synchronizied transmitters on 1149 kcs. were heard very well at times during January after WHAM signed. Programs are usually in a foreign language and sometimes there is QRM from XEL. (Roy Woollacott)

The British station on 1050 kcs. has been fighting it out with KNX lately. It may be heard as early as midnight with news in English. This is followed by news in French and other languages. The programs are the same as 1149 kcs. (Roy Woolcott, Rochester, N. Y.)

**Norway:** "Stavenger Kringkaster" was my first TA logged on Aug. 17, 1940 at 2:26 p.m. and a veri was received on 10-10-40 by air mail, passed by both censors. 2:26 p.m. is correct

(Please turn to page 95)

# The Inside Story of That New Radio

B. FRANCIS DASHIELL

This season of the year finds many new radios coming into use. For, like everything else, radio sets are changing in appearance, convenience and efficiency. However, the basic principles operating inside these superb examples of the cabinet-makers' art have changed but little. Strip a radio of its fancy dressing and the many new gadgets that provide for ease of operation and you will find the fundamentals much the same as when the first super-hetrodyne circuit was discovered. Practically all radios now utilize improved super-heterodyne principles, and the old tuned-radio-frequency receivers that served so well are just about obsolete.

No two radios of different models and makes, even when using the same number of tubes, are identical. When we stop to think that a couple of thousand radio engineers are employed to develop new ideas, that over 10,000 models appeared during the past decade, and approximately 30 million sets are in use in America today, it is easy to understand that no description of a radio receiver can be made to apply to all sets in use everywhere. But the essential principles, although often abused by liberal radio designers, remain as constant throughout the years as those which explain why airplanes fly and automobiles run. It is of these general fundamentals that we shall speak.

Now that you have a new radio, or an old one for that matter, you may wonder what is under that veneer of polished wood, bright metal, and mysterious buttons, knobs and switches. The modern radio is much like the automobile; you can operate it after a few simple lessons, and yet never learn just what makes it work and why. For this reason, the radio novice, unless he is ground-

ed in radio and electrical fundamentals, seldom fails to get the real inside story of his new radio. It is true he learns all there is to the art of tuning and picking up stations by consulting RADEX, and quickly becomes adept at DX reception. But he also hears much about kilocycles, megacycles, wave lengths and frequencies, static, interference, automatic tuning, tubes, antennas and doublets. These sometimes puzzle, but it is what goes on inside, when the signals from the antenna enter here, go in and around and around, and come out there, that mystifies so many people.

But, believe it or not, its quite simple and highly interesting! Yet the story of modern radio is amazing, even to those who have become its master. It has proved to be one of our greatest achievements, and today America leads the world in the production and use of radio apparatus. Radio, as you may already imagine, therefore, was not the invention of a single person. Yet, just after the turn of the century, a foreign scientist named Marconi put a few discoveries together and made them work. Americans, however, have made radio what it is, and they use it far more widely and with much more freedom than any of the other nations of the world.

The magic of electricity provides the energy so vital to radio. Magnetism, light, and sound, also play essential parts. But the power to scatter radio signals from great transmitting stations to millions and millions of receivers comes from electricity. However, the total energy radiated from one station may be no more than that which is consumed by the electric toaster at our breakfast table! And there is no limit to the number of radio sets that can be brought to life merely by the passing

of a single radio wave which flies through the air and around the wires of our receivers with the speed of light—186,000 miles a second! Behind the dials and controls of our radio receivers lurks practically all the effects of electricity, and yet a child can control them and bring them into play with the touch of a finger!

Let us not enter into a discussion of weighty theories. They may best be left to text books and studious experimenters. Instead, we shall sit before the new radio and, in our minds, picture the flight of the broadcast signals from their source across space to our homes and radios. But, it must be remembered, these things happen very quickly—seven times around the world in one second! One cannot think that fast, so don't try! By a snap of a switch and touch of the dial, we bring in some foreign station. But this simple action brings into play many of the marvelous laws of nature. Instantly, sweet melody pours forth from the loud speaker, and it seems indeed that the musician must be standing beside the radio, so perfect is his art, instead of being many thousands of miles away. His finger, too, has not yet left the key of the piano before you hear the note; it even comes to you a split fraction of a second before those listeners who sit in the back row of the broadcast studio can hear the sound!

This is because radio emissions travel with the speed of light—186,000 miles a second—as compared with only 1,120 feet a second for sound. Thus, it requires just about 1/60th of a second for a voice from Europe to be electrically wafted to your home receiving set!

Here is how a standard broadcast station works:

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BE RESERVED. SEE PAGE 96**

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A person talks into the microphone as if it were a telephone. His voice sets up varying vibrations in the microphone. The lower the pitch the slower the vibrations. These vibrations have various "intensities" and "frequencies", "Intensity" means the degree of sound, and "frequency" refers to the number of sound waves which can be transmitted in a given length of time.

In the studio these vibrations are converted into electrical current having the same "frequency" and "intensity" characteristics as the sound delivered into the microphone. After being checked and double checked at the studio, these electric impulses are sent over leased telephone wires to the individual transmitting station (usually some miles distant), or to other radio stations carrying the same broadcast. This is the method used in so-called "network" broadcasting.

These electrical vibrations which represent the voice or music in the studio are sometimes called the "audio wave". They are greatly amplified in intensity—sometimes 10,000,000 times—before they are imposed upon the "carrier wave" at the transmitter. The carrier wave is the one assigned to the radio station by the Federal Communications Commission—that to which the dials on the radio receiver must be tuned in order to hear the station.

The intensity and the frequency of this wave are constant, and all by itself it cannot transmit any music or speech. In order to do this it must be varied in some way in accordance with the fluctuations of the audio waves. This is called "modulation". In the standard broadcast band the audio waves are imposed on the carrier wave in such a way as to cause its frequency to remain constant and its "amplitude" (or power) to vary in accord with the audio waves. This is called "amplitude modulation".

These modulated radio waves are then put on the air by the transmit-

ting antenna. They radiate from the antenna tower like waves moving with the speed of light. They emerge in the same fashion that ripples do in a calm body of water disturbed by a thrown stone. However, these radiations move out in ALL directions. Some of them follow the contour of the ground and are called "ground waves." Others dart upward and are called "skywaves." The former give the best daytime reception. At night, however, the "skywaves" are forced back to earth by a ceiling of electrical particles which science calls the "ionosphere." This nightly rebound gives the listener a choice of more distant stations.

Radio waves pass through buildings and other objects subject, of course to absorption and interference. As in the case of artificial ripples on water, radio vibrations weaken with distance. Seasonal disturbances and sunspot periods can also disrupt and throw them off their course.

Standard broadcast stations in this country transmit 550,000 to 1,600,000 waves a second. They are known as "long wave" stations because the waves they transmit are actually long. At 550,000 waves a second, the distance between the crests is 1,800 feet. This is known as "wave length." A station transmitting 550,000 waves a second is said to have a frequency of 550,000 "cycles." This corresponds to 550 "kilocycles" (one kilocycle equals 1000 cycles) which, for the sake of convenience, is the usual marking on your receiving set dial. ("Kilo" means one thousand, and "cycle" refers to a complete swing of an electric vibration. Thus, "kilocycle" is a short way of denoting a thousand of these vibrations or oscillations a second. By the same token, a "megacycle" is equivalent to 1000 kilocycles.)

The so-called "short wave" broadcast stations transmit from 6,000,000 to 25,000,000 waves per second. These waves are sent out one after the

other so rapidly that the distance between their crests is only from 50 to 150 feet. It is a paradox that "short waves" go farther than "long waves." That is why international broadcasts are on "short waves."

Unknown to most people, radio transmission goes out in three simultaneous waves. The fundamental frequency or carrier wave, is accompanied by two other waves, one immediately above and the other immediately below the main carrier. These are called "side bands." The distance separating the main frequency and its companion frequencies is known as the "modulation frequency."

The modulated radio wave from the radio station transmitter is picked up by the home receiving antenna. That is to say, it sets up in the receiving antenna modulated radio frequency current having the same frequency and the same varying intensity as the radio frequency currents in the transmitting antenna. The receiving set changes these impulses back into sound which is amplified so that the human ear can hear. In the receiver the carrier wave and the audio waves, of which the modulated wave is comprised, are separated by a device called a "detector" or "demodulator". The carrier wave is shunted off into the ground. Having done its job it is no longer needed. The audio waves, however, are sent to the loud speaker or "telephone head set" where they are transformed back into sound waves.

Radio waves occupy only a portion of what science calls the "electromagnetic spectrum." Imagine the latter as a ruler marked off in kilocycles (which means frequencies) for eight different classes of electric radiation. The radio part of it ranges from 10 to more than 400,000 kilocycles (or frequencies). Not all of this is useful at the present time. But into the useful portion, at varying intervals and in various widths, are crowded many types of radio services.

The number of frequencies avail-

able for standard broadcast service are limited, so there is international agreement as to their use. This is necessary to prevent broadcasts in one country from "colliding" with broadcasts in another country. Thus, though the same frequencies have to be used throughout the world, they are shared in such manner as to minimize interference.

Standard broadcast occupies from 550 to 1600 kilocycles (or frequencies). This is known as the standard broadcast "band". This band was adopted for broadcasting because a score of years ago, when broadcasting began, the lower frequencies were used by other radio services, ships at sea, Government stations, and by radiotelegraph stations employing code signals. Very little attention was given to the higher frequencies in those early days. It was believed that they were not suitable for broadcasting since it was known that their ground waves were much more highly absorbed and weakened than those of the longer waves. They turned out to be the only ones possible for broadcasting to great distances, such as to foreign countries, because of the sky waves which bounce back to earth as previously explained.

Today the development of FM (frequency modulation) and television bids to make the ultra-high frequencies (above 30,000 kilocycles) also very useful. The FM development on the ultra-high frequencies is interesting because it promises more natural reproduction of music and speech than is obtainable on the lower frequencies and greater relief from static and noise. In the FM wave it is the amplitude or power which remains constant instead of the frequency as in the standard AM (amplitude modulation) wave, and it is the frequency which varies with the audio wave instead of the amplitude when the carrier and audio waves are superposed.

To prevent interference and confu-

sion, it is necessary to apportion broadcast frequencies into "channels." In our standard broadcast band there are 106 such channels, each 10 kilocycles wide. A broadcast channel can be used by a number of stations if the stations are adequately separated to prevent interfering with one another or are protected by directional antenna systems.

A standard broadcast channel, in effect, means the path assigned to the emission of a particular station. The broadcast station's carrier wave, plus its two "side bands," must keep within the channel. The side band is the range of frequencies required for the audio program (music or speech).

A broadcast station is assigned 10 kilocycles of the spectrum for its emissions to travel in. It is permitted a certain amount of "swing" or deviation. However, its carrier must operate within 20 cycles of the assigned frequency.

Hearings differ, but the perceptible range of sound to humans is from about 16 cycles to 16,000 cycles a second. A new dog whistle emits sound which does not register on the human ear. A piano keyboard sets up vibrations of from some 27 to 4,000 cycles a second. The new FM (frequency modulation) system advocates a maximum of 15,000 cycles a second.

A broadcast channel may be likened to a modern highway, with the dividing white line of the latter representing the assigned radio carrier frequency, and the side bands symbolic of the adjacent traffic lanes. A broadcast station program travels the etherway with identifying call letters akin to license plates of an auto traversing a land highway. Both must keep in their assigned lanes to prevent "colliding" with traffic in adjacent lanes. Such "collisions" are responsible for the squeaks or rumbles often heard when you attempt

(Please turn to page 52)



# On The West Coast

By MELVIN FISHER

It does "Ye olde correspondent's" heart good to see the increase in activity in western DX, coupled with the fine line-up of prizes we now boast for the RADEX contest winners! The way you fellows are twisting the dials and sending in the reports you're a cinch for some of these prizes. Just go after the veries, for those are the "blue chips" in these contests!

This past winter has been very good for reception of the Japanese stations, both on the broadcast band and short-wave, while reception from "Down Under" has been a trifle disappointing, judging from the comparative scarcity of reports on stations from this part of the world. However, we are just now heading into the Spring "peak" period for reception of these stations, and so have one more big chance this season to go after Australian and New Zealand additions to our logs.

At this time it is a little early to list any results in our Distance contest, but we expect to have some good entries in the next issue, though everybody has until July 1st to get distant veris in. Standings will be listed in two divisions: Broadcast Band,, and Shortwave.

We all wish to extend a hearty welcome to newcomers to RADEX, whether you are a beginner or a "vet" at this hobby of DX. We hope that all our relations together will be most pleasant, and of long standing. So please "get your feet wet", fellows.—enter the contests—send in reports for the column; you'll certainly earn our appreciation!

I've had several requests from new RADEXERS asking how they might become reporters to the column. As all the old-timers know, there is no

"red tape" connected at all. Just take your pen in hand and start writing, or sit down to your typewriter and punch out a card or a letter to us, stating what you have heard via your radio. Joining the RADEX club is just as simple—put your request on a postal card and address it to RADEX, 12 Locust Avenue, Emerson, N. J., and a free membership card will be sent you. You will note our short-wave reports are arranged by countries—it will help us immeasurably to have each one of you submit your reports in this fashion, for by each one working a little harder, a great deal of work is saved one person. We wish to thank all of you who already follow this procedure—your cooperation has helped a lot.

Competition was terrific for places on the Big Three this time, but we are prepared to present the winners. Here they are!

## THE BIG THREE

1. Russell Cain.
2. G. R. Jewell, Jr.
3. Art Cushen.

Russell Cain stepped from third to first place by virtue of consistent, newsy reports. Hot on his heels were "Gil" Jewell and Art Cushen, with very good reports. Hal Tuncil, a newcomer, just missed the Big Three, and deserves honorable mention along with Fred Anderson of the Philippines, and Bill Petty, of Hawaii.

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

Melvin Fisher  
1401 Bancroft Way  
Berkeley, Calif.

(Please use PST in reports).

Russell Cain hails from Reno, "Gil" Jewell from San Diego, and Art Cushen from far-off New Zealand, so we have all districts pretty well represented in the honor roll this month. Who's going to be our leader next issue?

#### THE BROADCAST BAND

T. BRANDON, EDMONTON, ALTA.—"Have been taking RADEX since 1933 and have every issue since then. I use a DeForest 5-tube, 1940 model, and a General Electric 8 tuber set. My first DX was in 1922 on a home-made peanut tube radio. How many remember these old timers: WBAP when they were using 500 watts; WCAJ, using 15 watts, and KFKX, Hastings, Nebraska? CKUA will increase to 1000 watts immediately and go commercial. My best DX catches are CBA, CMQ, WSMB, WOOD, WASH, KWK, and KFAM."

BOB BROWN, GOSHEN, IND.—Bob bought the 23-tube Scott that Joe Lippincott has been using the last couple of seasons and says, "I hope I can live up to the reputation Joe and the set have established." (We have a feeling Bob will give a good account of himself.) He heard KENO, KERN, and KRE, all between 11:45 p.m. and 12:05 a.m., PST. He says, "I've been trying to identify a Spanish speaking station on 1130 k/c. The announcer sounds like a Mexican and they play American records. Could it be XEIP?" He also mentions 2YC is on 860 k/c and wonders how they could have interfered with 4QS on 760 k/c. He is right, and it's our mistake...2YH was the station that interfered with 4QS, and as mentioned in last issue was changed to 750 k/c to avoid this difficulty.

FOREST L. WEBB, SALINAS, CALIF.—"CKLN were heard Nov. 17 with a DX program. WTAG was heard signing off at midnight. HOK was heard on an NNRC special at 12:15 a.m. on Nov. 22. WLAV was hard on a test program on Nov. 23. WHAI was heard signing off at midnight. 4QS, 4YA, 4QG, 2BL, 4QN,

2FX, 3WV, 1YA, and 3GI have all been heard. Leonard Shreve signs KDON veries. WJHO informs me that there has never been anyone by the name of Robert Donahue connected with that station, as stated in RADEX list of veri-signers. Robert B. Wilds, chief engineer, signs all veries. The call of the new Tampa, Fla., station is WKGA. KLS has "upped" its power to 1000 watts, and KARK to 5000.

HARRY H. JOHNSON, LOS ANGELES.—"CMQ, 690 k/c, was heard 3-4 a.m., with very strong signal. KYCA was heard testing 12 to 12:30 a.m. on Sunday morning, Nov. 24. They asked for reports outside the state, and in return will send a picture of their station. They come on the air at 6 a.m. KPPC at Pasadena can be heard on Sundays with a religious program. Their call letters signify Pasadena Presbyterian Church."

BOB DOOLITTLE, GLENDALE, CALIF.—"My specialty is police stations. Have tried for veries, but no response. Mebbe' the 'cops' figure I shouldn't eavesdrop! Have logged over 132, including many UHFS. I use a Hughes Mitchell converter (specially adjusted) into a PHILCO all-wave receiver."

CLARENCE LEE MUSTOE, BRADY, MONT.—"KSAL verie was signed by the chief engineer, N. E. Vance, Jr. I am one who hopes the RADEX club gets pins, buttons, and stationery—at least one of them."

NORMAN L. MAGUIRE, ALBUQUERQUE, N. M.—"KOB will increase its power to 50000 watts. It is enlarging its transmitter facilities at this present writing. Our other local station, KGGM will increase its power to 25000 watts shortly, and its other station, KVSF in Sante Fe, will then use the old KGGM transmitter. Reception here has not been up to regular standards as yet. However, with a new receiver coming in a few weeks, I imagine that my DXing will pick up." Norman gives us a few veri-signers: KYAN-L. Peach: KNOW-

James E. Lewis, Chief Engineer; and KSUB-Sherman T. Wright, Mgr.

BILL PETTY, WHEELER FIELD, OAHU, HAWAII.—"I've just purchased a new HALLICRAFTERS SX28 receiver; boy, does it pull them in! Our December FCC tests I heard KWEW, KFIZ, WMPS, WAVE, KGHF, WJMS, KGCU, KFJM, WHDF, and KUOA. I heard KGBU behind KHJ on 900 k/c at 11:45 p.m. WGY was heard recently overriding KGO at 9:30 p.m."

R. A. BUTTS, EASTON, WASH.—"The past season I logged 390 stations—77 on shortwave and 313 on BCB—we are expecting a new arrival in the near future. We are hoping for a son and if so I will make a real "DX hound" of him. RADEX surely is a live wire radio magazine. Keep up the good work." (A later letter from Ray informs us that the new arrival was a son, born on Friday, Dec. 13).

H. H. CROW, JR., SACRAMENTO, CALIF. — "KENO verifies, signed by Bob White. KYAN, a Mutual outlet, was picked up through KRE, KTUC, KUJ, and goodness knows what else. KODL in The Dalles is on the air." He would like to know how it is that he heard KGCX relaying CBC programs. Also, he has had noluck verifying KYCA, and wonders what experiences other DXers have had with this station. He would also appreciate hearing from anyone who has heard KOVO testing or has verified them this year.

FRED A. ANDERSON, FORT MILLS, P. I.—"Well, the DXing isn't so bad here. So far I have logged 18 U. S. stations, 8 Australians, 5 Japanese, 6 Chinese, 5 South Africans, and one in Saigon, French-Indo China. I have verified (all BCB) KZRM, KZRH, KZRF, KZIB, KZRC (1200 k/c), JZL (590 k/c, JZL-4 (980 k/c) and ZET (1000 k/c) in Durban, South Africa. In the evening here from 8 p.m. I catch the U. S. stations signing on the air, a day behind Manila. I sure miss those FCC checks." Just as Fred closed his letter he tuned in

KQW and they announced the time as 6:40 a.m., while Fred was ready to go to bed at 10:40 p.m., Manila time. Many of you will remember Fred as the soldier from Fort McDowell, Calif., whose report appeared in the Nov.-Rec. issue...at that time he said he was to leave shortly for Manila and that we would hear more from him after he arrived there. Well, Fred, we're all glad to have you still with us, and now that you're our "advance guard" in the Far East we'll be counting on you to keep us posted on DX news from out that way, OM.

KEN WHITE, OAKLAND CALIF.—"I am fifteen years old and very much interested in radio. I started logging BCB stations on Dec. 1, 1940, and so far I have 57 from 16 states. The receiver I am using is a Howard, Model 400. I got my first RADEX about a month ago and like it very much."

T. P. VASILOPOULOS, WEST LOS ANGELES, CALIF.—"KTOH has been heard, using my body as an antenna. KGMB, KGU, and KINY in Juneau, Alaska, were also heard.... I'm breaking down the eight tube super, and building an 11 or 12 tube set with another stage of both R.F. and I.F., using a larger chassis."

GEOGE HISS, WEST HOLLYWOOD, CALIF.—"I have heard 98 stations in 22 states on the BCB, including CMQ, CBK, CBY and a dozen Mexican stations. Because of my work, I do all my listening before midnight, using a six tube set."

R. V. CALDWELL, NESKOWIN, ORE.—"KXL in Portland is on all night Saturday nights. Add KFVB to last issue's list of all nighters on the West Coast. The following sign on at 5 a.m.: KSL, KDYL, KID, KVOD, KFKA, KFXD, KUTA, KTAR and KOA. KSFO, KTFI and KSFI are on at 5:30 a.m. Portland stations sign on the air as follows: KOIN, KEX, KGW, KWJJ, and KXL at 6 a.m.; KALE at 6:30 KBPS at 10:30 a.m., the later on the air only until 1 p.m. I heard a Spanish speaking station on 1230 k/ early in the

morning, but did not catch the call letters. In all I have logged 247 stations on the broadcast band since August. My best are WBT, WRVA, WEA, WALA, WTMJ, WILL, KSD, WMC and WMAX."

LIONEL JACOBS, PASADENA, CALIF.—"KHJ, the first Mutual station in California, has moved to new studios at 5515 Melrose Avenue, Hollywood. KHJ announced that Mutual now has 165 stations in their network. The old towers on the KHJ Building in Los Angeles will be turned over to shortwave work."

HAL TUNCIL, BAKERSFIELD, CALIF.—"KERN is having some new cards printed, and will verify free of charge. XEAW's change to 1020 k/c has resulted in a considerable decrease in signal strength. Since I bought my first issue in September, 1939 I would be lost without my faithful copy of RADEX. My receiver is a HALLICRAFTER'S Sky Buddy, with a two-tube pre-selector."

### BROADCAST BAND NOTES

KQW plans an increase on local programs for 1941, and a close-out on MBS programs. KQW will also broadcast the San Francisco baseball team's games in the Coast League next season, replacing KGO in this service.

Bob Brown sends us an interesting comparison on stations reported both last season and this year:

Station	Last Year	This Year
KMPC	No reply	Verified in 9 days
KGIR	No reply	Verified in 8 days
XEAC	veri. in 100 days.	Veri. 8 days

Bob displays a good sense of humor in adding: "I wonder if there was that much difference in my reports?"

JFAK has shifted to 670 k/c from 750. 2NW, 750 k/c with 10,000 watts, will be a new station located at Manin, N. Z. 4GY on 1350 k/c, located at Gympie, N. Z., will take the air early in 1941, while 2TM on 1300 k/c has rebuilt its transmitter, using a power of 2000 watts. (ARDXC).

A station in Tijuana was heard testing on Jan. 1, 2, and 3rd from midnight to 1:30 a.m. on 930 k/c. The first two nights the broadcast was entirely in Spanish, while on the 3rd the broadcast in English for the Los Angeles area. (Webb-Salinas).

KZRH, 710 k/c, Manila powered at 5000 watts, is on the air 2:30 p.m. - 7 a.m. KZRM, 618.5 k/c, has a broken schedule: 1:30-4 p.m., and 8 p.m. to 7:30 a.m. Powered at 1000 watts, KZRF on 780 k/c, transmits 2 p.m. until 7:45 a.m. KZRC, Cebu City, P. I., powered at 100 watts and on 1200 k/c, broadcasts 2-4 p.m., 8-9 p.m., and 1-6 a.m. (Anderson-Philippines).

KWIL heard on an equipment test in the early morning. They are on 1210 k/c and are located at Albany, Oregon. They operate with 250 watts power. (Crow).

KTKC now conducts a special program every night 11 p.m. to 3 a.m., sponsored by firms in Fresno. KLS in Oakland has been able to continue playing ASCAP tunes since the beginning of the BMI-ASCAP fracas. Canadian stations also play these tunes. (RF).

XEGM, Tijuana, authorized to operate on 950 k/c and heard by Bill Cunningham on 920 k/c, has been heard once definitely on 930 k/, covering KROW here. (Webb-Salinas).

### SURVEYING THE SHORTWAVES

From the reports received this past winter, we would say we are in a very successful DX season as far as the Shortwave Broadcast Bands are concerned. More countries are being heard from, and the volume of reports is increasing steadily. But enough of this—let the fellows have the floor!

#### Argentina

LRA-1, Buenos Aires, 9688 k/, is being heard with strong signals from 5-9 p.m. English is used at sign-off. LRX on 9660 k/c is heard until 8 p.m. with fair signals, at which time QRM over-rides them. (Jewell). LRX logged QSA-5,R9 at 7 p.m. (Cain). LSX on 10,350 k/c was heard working NBC, New York, with R7 signals,

signing off in English at 8:15 p.m. (Tuncil).

#### **Australia**

The VK3 call was used by Victorian experimental stations which went off the air at the outbreak of the war. (Bishop). VLR on 9580 k/c, Melbourne, signed on at 12:30 a.m. with R8 signal. VLQ, 9615 k/c, was heard signing on at 12:25 a.m. in French with an R9 signal, in parallel with VLQ7, 11,880 k/c. The latter station replaces VYQ8, 17800 k/c, on the 9:55-10:45 p.m. broadcast. These stations are known as the ABC stations and are all located in Sydney, except VLR. To save time, reports should be sent to "Dept. of Information", 375 Collins St., Melbourne, CI, Australia. Veries will be sent to all reporting reception correctly. Jewell). VLQ on 9541 k/c is on the air only from 3:40-4:15 a.m., broadcasting from Sydney. (Anderson). VLJ7, 11880 k/c, was logged R8 with a news broadcast at 7:30 a.m. (Tuncil).

#### **Bolivia**

CP43, 15101 k/c, Cotagatia, was logged R6 at 6 p.m. (Cain).

#### **Canada**

CKFX, Vancouver, 10 watts, 6080 k/c, heard with good signals until midnight. CJCX, 6010 k/c, was heard opening at 4:30 a.m. CJRX, 11720 k/c, was heard closing at 10 p.m. (Cushen-N. Z.) CFCX, 6010 k/c, Montreal, heard with a weak signal at 7:15 p.m. CFVP, 6030 k/, relaying CFCN, put in a fair signal at 7 p.m. (Cain). CJRX, 11720 k/c, heard irregularly at 7 p.m. with R6 signals, and some QRM with WRUL. (Tuncil). CFRX is on 6070 k/c with 1000 watts—their address is "The Rogers Radio Stations, Toronto, Ont., Canada." CFVP is on 6030 k/c with 100 watts relaying CFCN. Their address is "The Voice of the Prairies, Limited, Calgary, Alta., Canada." Their transmitter is at Strathmore, and they verify with a black and cream card—CFVP is typed above the old call of VE9CA. (Cain).

#### **Chile**

CB1174, Santiago, heard nightly on 11740 k/c with program of Latin dance music 6-7 p.m. CB1180 on 11945 k/c broadcast popular music 6-9 p.m. (Jewell). CB970 excellent until 8:30 p.m. on 9700 k/c. CB1170, 11700 k/c, heard testing until after 9 p.m. with a very good signal. CB1174 heard closing at 8 p.m. with "Marching Through Georgia." CB1180 excellent around 8 p.m. (Cushen, N. Z.)

#### **China**

XGOY on 9610 k/c from 6-6:30 in English. Veries are signed by Mr. Fung Chein, Director. Send all reports to "The Voice of China", Chungking, enclosing an IRC. XGOX reports should also be sent to the above QRA. XGOX is on 15200 k/c and 17,800 k/c, while XGOY is on 9610 k/c, 9650 k/c, and 11,900 k/c. They operate with a power of 35000 watts. (Jewell). YGRS, Shanghai, operated by the German Club, was logged on 11920 k/c with fair signals. (Cushen, N. Z.) XGRV, "Voice of China", located in Chungking, and operating on 11,418 k/c, broadcasts only 9-9:25 p.m. and 5-5:45 a.m. YPSA, Kweiyang, 6980 k/c, broadcasts on Sundays from 10 p.m.-6:55 a.m., and 3:30 p.m.-7:10 a.m. on weekdays. XGOY, 11900 k/c, began an English program to Western U. S. and Canada on Dec. 15th. The time is 9-11 p.m. daily. (Anderson). XGOY on 9630 k/c heard at 6 a.m. with R7-8 signals. Sign-off is irregular. (Tuncil).

#### **Colombia**

HJCT, 9630 k/c, comes in good until 8:30 p.m. HJAB, 4780 k/c, puts in a fair signal at 7 p.m. (Cushen, N. Z.) HJDP, 4885 k/c, Medellin, heard weakly at 7 p.m. (Cain).

#### **Costa Rica**

TIX, 5830 k/c, closes with good signals at 9 p.m., playing "Goodnight." TIPG, 9620 k/c, heard with excellent signal, closing in English at 9 p.m. TIEP, 6690 k/c, puts in a good signal until 9 p.m. (Cushen, N. Z.)

### Cuba

COCY, 11500 k/c, excellent until sign-off at 10 p.m. COHI on 6455 k/c also heard. COK on 11570 k/c heard with good signals at 9 p.m. (Last issue of "Radio Guia" reports COK as temporarily off the air, but probably not for very long) COBS, 9030 k/c, also heard well at the same time. (Cushen, N. Z.) COCQ on 8850 k/c has been very good in the evenings. (Hiss). COCO on 8700 k/c heard with English program at 9 p.m. with very good signals. COHI on 6455 k/c comes in every evening with R9 signads. (Tuncil).

### Dutch Guiana

A new catch was heard here several weeks ago—"The Voice of Paramaribo", on 11380 k/c from 3:30-5:30 p.m., located in Paramaribo. (Jewell).

HCJB, 12460 k/c, excellent at 6 p.m.

### Ecuador

HCJB, 12460 k/c, excellent at 6 p.m. HC2ET, 9190 k/c, closes with English at 8 p.m. HC1GQ, 9170 k/c, is good at 8 p.m. (Cushen, N. Z.) HCJB is very good 6-7:30 p.m. (Hiss). They are heard every evening except Monday with R8-9 signals. (Tuncil).

### Egypt

SUX, 7860 k/c, Cairo, came in very weakly at 3:50 p.m. on a relay to CBS. (Cain). Let's have more reports on this fine DX catch!

### England

GSV, 17810 k/c, heard at 12:15 a.m. (Petty-Hawaii). GSP, 15310 k/c, and GSI, 15260 k/c, are heard during the daytime in parallel. The former is usually R8, while GSI averages R6.

### Fiji Island

VPD-2 on 9536 k/c at Suva is still being heard with fair signals with recorded music from 9-9:15 p.m. and news in French 9:15-9:30 p.m., relayed from London. Sign-off at 9:30 is in English. Send reports to Amalgamated Wireless, Ltd., Suva, Fiji Islands. (Jewell). A later report from "Gill" Jewell reported receipt of a veri from VPD-2.

### French Indo-China

"Radio Saigon", 11,780 k/c, presents news in English at 3:45 a.m., 6 a.m.,

and 7 a.m. (Anderson).

### French Equatorial Africa

"Radio Brazzaville" on 11970 k/c powered at 5000 watts, are on almost daily from 10-10:30 p.m. and 12:30-1:30 p.m. They announce as "Ici Radio Brazzaville", Viva General de Gaulle and France Liber." Their address is Service de la Presse et de Informations de Gouvernement General, Brazzaville, French Equatorial Africa. (Cain).

### Germany

DJE, 17760 k/c, was heard at 12:15 a.m. with an English program. (Petty Hawaii). DXB, 9610 k/c, and DJF, 15200 k/c, put in very good signal here. (Tuncil).

### Greece

SVJ, 9825 k/c, is the only station from this country reported heard in New Zealand. Powered at 20,000 watts, it was heard at 6 a.m. with very weak signal. (NZDXC).

### Guadeloupe

FG8AH, 7445 k/c, located at Pointe-a-Pitre put in a weak signal at 3:45 p.m. with announcements in English. (Cain).

### Guatemala

TGWB on 6480 k/c is heard nightly with fair signals. Marimba music is heard from 8-8:30 p.m. on Monday, Thursdays, and Saturdays. QSL received in three weeks signed by the English announcer, Roberto Jordon (Jewell, Tuncil). TGQA, "The Voice of Quezaltenango", 6190 k/c, verified with a nice card after exactly a year's time. (RF).

### Hawaii

KKH and KKS at Honolulu heard on 7600 k/c 8-8:30 p.m. on Sunday with an extremely strong signal. (Johnson)

### Honduras

HRN, 5870 k/c, heard well until 9 p.m. (Cushen-N. Z.)

### India

VUD-2, 15290 k/c, Delhi, heard at 7:15 p.m. with news bulletin in English. (Matzen)

### Italy

2R43, 9630 k/c, comes in with R9 signals during the daytime, and ver-

weakly during late evening hours. ZRO4 verified with the usual EIAR card, colored gray and red. (Tuncil)

### Japan

JZI, 9535 k/c, heard 9-10:30 p.m. and 5:30-6:30 a.m. with strong signals. JZJ, 11800 k/c, heard in parallel on both transmissions. (Jewell) JZI heard at 6 a.m. and 10 p.m. (Johnson) JLG4, 15105 k/c, heard testing 6-7 p.m. JLU3, 15135 k/c, heard in the evenings. JZI heard with news in English 11:30-11:55 p.m. (Petty-Hawaii) JZI and JZJ heard testing with recorded music and asking for reports at 8:30 p.m. (Hooker, Hiss) JVZ, 118515 k/c, and JLG4, 15105 k/c, heard with loud volume. Time—? (Cain, Tuncil) JVA, 18910 k/c, Tokyo, was heard contacting KWE, San Francisco, on December 27th. (Benefict)

### Java

JYDA, 3040 k/c, YDA, 9550 k/c, YDC, 15150 k/c, PLP, 11000 k/c, and PMN, 10260 k/c, are all on the air 7:30-11 p.m. and 1:30-7:30 a.m. (Saturday until 8:30 a.m. and 3-4:30 p.m. during the week. On Sundays they broadcast from 4-11 p.m. and 1:30-7:30 a.m. PMH on 6720 k/c broadcasts oriental programs exclusively. (RX)

### Manchukuo

MTCY on 9545 k/c and 11775 k/c at Hsingking is being heard in the mornings until sign-off at 7:30 a.m. in English. MTCY on 11775 k/c broadcasts in English 10:30-11:30 p.m. (Jewell) MTCY logged recently on 9545 k/c. Their signals were very weak. (Tuncil)

### Martinique

"Martinique" heard at 4 p.m. with weak signals. (Cushen-N. Z.)

### Mexico

XEQQ, 9680 k/c, has good signals closing with English at 10 p.m. XEBT, 6005 k/c, heard with good signals at 9:45 p.m. (Cushen-N. Z.) XEWW on 9500 k/c is heard here every evening with Q5, R9 signals.

XEBR on 11826 k/c has a strong carrier hum, but comes in R9 every day. (Tuncil)

### New Caledonia

Veri received recently from "Radio Pacifique." They use 100 watts on 7280 k/c and have also been heard on 6480 k/c with short news sessions in French at noon and 4 p.m. They open with the march "La Chant du Depart." They will shortly put a one-kilowatt transmitter on the broadcast band. (Cushen-N. Z.)

### Panama

HP5J, 9600 k/c, has good signal until 7:30 p.m. HP5G, 11770 k/c, heard closing at 7 p.m. HP5A, 11700 k/c, heard well until 8 p.m. (Cushen, N. Z.) HP5G heard with American dance music and English Announcements at 6:30 p.m. Signal was R7. (Hooker) HP5A verified with a plain card, printed in Spanish in black and white. HP5G on 11780 k/c heard QSA-5, R8-9 with some QRM. (Tuncil) Power of HP5A is 800 watts is 800 watts. They broadcast on 11700 k/c 4-10:30 a.m., and 2-8 p.m. Their address is Apartado Numero 954, Panama City, Panama. (Cain)

### Peru

OAX5C on 9440 k/c at Ica is being heard nightly with fair signals 6-8:30 p.m. Programs are relayed from Buenos Aires. (Jewell) OAX1A, "Radio Delcar", closes at 9 p.m. OAX4Z, 6082 k/c, was heard very well at 10 p.m. OAX4T, 9560 k/c, was heard in parallel with OAX4Z. OAX4P, 5970 k/c, heard with good signals at 8 p.m. OAX4G, 6190 k/c, puts in a good signal until 11 p.m. on Saturdays. (Cushen-N. Z.) OAX4J verified with an envelope which opens up, and is printed in black and orange. They are on 9340 k/c. (Tuncil)

### Philippine Islands

KZRH on 11890 k/c is a new transmitter operating from 8-9 p.m. in English, directed to the U. S. A. QSL is a brown card printed in black and dark brown, signed by Mr. B. H. Silen. Address is Heacock Bldg., Escolta, Manila, P. I. (Jewell) KZRH on 9540 k/c broadcasts from 2 p.m.-

8 a.m. KZRH then has an international broadcast on 11890 k/c from 8-9 a.m. KZIB on 9500 k/c broadcasts from 2:30-10 p.m. and on 6043 k/c from 10:30 p.m.-7 a.m. KZRM on 9570 k/c broadcasts from 1:30-4 p.m. and 8 p.m.-7:30 a.m. KZRF on 6140 k/c is on the air 2 p.m.-7:45 a.m. KZRC, Cebu City, broadcasts on 6100 k/c 2-4 p.m., 8-9 p.m., and 1-6 a.m. (Anderson) Manila will soon have a new 20 kilowatt transmitter, but I have no real dope on it yet. (Anderson)

#### Portugal

CSW, 11040 k/c, breaking through to Pacific Coast R8 between 9 and 9:30 a.m. (IRM)

#### Russia

RV15, 4273 k/c Khabarovsk, heard with loud volume at 4:47 p.m. (Cain)

#### San Salvador

YSP, 10400 k/c, is excellent until 9 p.m. (Cushen- N. Z.)

#### Straits Settlements

ZHN, Singapore, 7250 k/c, is operating simultaneously with ZHP on 9690 k/c. (Breen-N. Z.)

#### Switzerland

HBO heard on relay to CBS. They are on 6675 k/c. Time heard not mentioned. (Cain) HBO, 11402 k/c, transmits to South America Mondays and Wednesdays, 3:45-5:10 p.m. HBO and HBL, 9345 k/c, broadcast for North America Mondays and Wednesdays 5:45-7:10 p.m. HBO broadcasts to Africa Tuesdays and Saturdays 9:45-11:10 a.m. HBH, 18480 k/c, is on the air for the Orient 5:45-7:10 a.m. on Wednesdays. HBO and HBJ, 14535 k/c, transmit to Australia 6:45-7:10 p.m. on the first Sunday of the month. Power of all transmitters is 20 kilowatts. (Cain)

#### Taiwan

JIE-3 is on approximately 9600 k/c. (Jacobs)

#### Thailand

HSP6 is on the air daily except Monday from 5-7 a.m. and HS6PJ on Mondays from 5-7 a.m. The power is 10 kilowatts. An old station, HS8PJ, 9510 k/c, has been replaced by HSP5, 11715 k/c. HS6 is on 19020 k/c, with transmitter Saladoeng, Bangkok, Thailand. M. Veri from HSP5 stated mine was the first report from Reno. (Cain)

#### Turkey

TAP, 9465 k/c, Ankara, heard with R8 signal 11:30-11:45 a.m. with male and female announcers giving new broadcast in English. (Hooker, Cairo)

#### Union of South Africa

ZRL at Capetown verified promptly with a very cordial letter and an attractive SABC card, with printing in green on a yellow background. Their frequency was listed as 9600 k/c, though they seem to be heard about 9615 k/c. They announce that only stations now using English are the two low-powered Durban transmitters, ZTD on 4878 k/c, and ZR on 6147.5 k/c, both powered at 500 watts. The power of ZRL is 5000 watts. They said they do not get as many reports as formerly from the United States on ZRL since they started broadcasting only in Afrikaans. (RF)

#### United States

WRUW, 11730 k/c, heard on Friday nights until 10:30 p.m. testing for the West Coast with WRU1, 6040 k/c. KGEI, 9670 k/c, hopeless until WRCA signs off at 10 p.m. (Cushen- N. Z.) WNBI heard all day on 11890 k/c. (Petty-Hawaii) WLWO came booming in on 15250 k/c, 10-11 a.m. using 75000 watts power. WGEI transmits daily on 6190 k/c from 7:30-8:30 p.m. (RF)

#### Uruguay

CXA-8, Colonia, heard on 9640 k/c at 8:30 p.m. (Cain)

#### Venezuela

Good signals are heard in the 6 meter band at 7 p.m. Reports are out to YV5RO, YV5RH, YV5RM, YV3RX. (Cushen-N. Z.) YV5RE

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**YOU WILL SAVE 75 CENTS  
SEE PAGE 96**

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4920 k/c, YV5RK, 5000 k/c, YV5RO, 4940 k/c, YV5RT, 4980 k/c, YV6RT, 4900 k/c are all deleted. New slogans are: YV3RX — "Radio America"; YV5RU—"Emisoras Unidas Ondas Populares-Estudios Universo"; and YV6RC — "Emisora del Estado." YV5RJ, "La Voz de la Patria", has changed call to YV5RX, but uses the same slogan. (RX)

#### **Yugoslavia**

YUG on 15240 k/c is heard irregularly with good signals. (Tuncil)

#### **THE MIDDLE BAND**

The call letters of the cutter "Itasca" is NRVI, but I have been unable to find their frequency. KNBC and KNCA heard around 4500 k/c in the daytime. KSW, Berkeley police, heard on 1658 k/c. Potters Field station, 390 watts, heard on 4220 k/c.

#### **AMATEURS**

KC60KS is the only known Wake Island station—the same for KB4FCS of the Virgin Islands. (Jacobs)

W4XA verified with brown and cream card. They were heard relaying WSM from 4-4:30 p.m., and are on 26, 150 k/c. W5XAU, 26125 k/c, heard around 5 p.m. relaying WKY. They verified with red and cream card—their address is Skirvin Tower Hote, Oklahoma City, Oklahoma. (Sutherland)

#### **ULTRA HIGH**

W4XA has been heard here on the UHF, 26,150 k/c. Could anyone tell me the whereabouts of a W5— on 26,000 k/c? The above is from Charles Benedict, 2226 Casitas Avenue, Altadena, Calif.

W5XAU, 26125 k/c, heard R6-9 with considerable QRN. They relay WKY and verify by card. W9XPD, 25900 k/c, relaying KSD, verify by letter. (Tuncil) Hal Tuncil says W4XA does not verify, while Ivor Sutherland has verified them. Try again, Hal!

#### **THE PIGEON HOLE**

D. L. Bishop, Liberty, Sask., answers Allan Cadorath: "WMI operated on several frequencies, 8585 k/c being one of them. They broadcast a Great Lakes weather report at 8

a.m. and 7 p.m. (PST) They verify promptly."

Greeting to Art Cushen in far-off New Zealand! Art, who is the short-wave editor of the New Zealand DX Club, sends in a fine SW report for this issue, and further gladdened the heart of yours truly by using PST throughout!

Mervyn Branks of Invercargill and Cyril S. Belshaw of Auckland also are doing their bit to keep New Zealand at the "DX front." Reports from both appeared in the last issue. All three are RADEX club members. And a hearty hello to Alan I. Breen, from out the same way! Alan is an honorary member of the club.

Harry C. Powell of Portland, Oregon, uses an RCA 8-K, and would like to correspond with other RADEXERS who have the same type of receiver. From his location he has logged all the 50,000 watt stations in the country and many smaller ones.

Allen G. Hooker compiles his short-wave DX with a 3 tube SW3. Thanks for your frequent reports, Allen— please kee up the good work, OM.

Bill Petty of Wheeler Field, Oahu, Hawaii, is in the U. S. Air Corp., is 26 years old, and has been DXing since 1934, though not consistently. He has VAC on SW, has logged 170 stations on the BCB in the past two years while in the Islands. Before then he "burned the midnight oil" in Virginia, but his DC activities are now somewhat limited. Thanks, Bill, for your holiday greetings! Thanks also to Mert eMade and Ray LaRocque for you attractive and unique Christmas cards.

Forrest L. Webb sent one report to XEAW and got THREE cards all alike.

Eugene Allen has purchased a new HALLICRAFTERS SX-25, fifteen tubes, and now sports the most powerful set among East Bay RADEXERS, since Larry Yarnes' 23-tube Scott is in his home in Oregon, and while attending school at the University of California he is using a five

tube Philco.

Charles Benedict of Altadena, Calif. has been DXing for only one month. He tunes a HALLICRAFTERS six tube model, with doublet antenna and directional preselector.

Lionel Jacobs, a pen pal of Rus-

sell Cain's DXes with a 1940 Zenith and a Philco. He has a log of 617 on SW and BCB, plus about 1000 "hams."

Russell Cain of Nevada has a VFB card, and will send them out for return postage.

### LIST OF REPORTERS

RF	.....	Your West Coast Editor	
RX	.....	Official News Item	
R636	.....	Norman L. Maguire	Albuquerque, N. M.
R834	.....	G. R. Jewell, Jr.	San Diego, Calif.
R881	.....	Clarence Lee Mustoe	Brady, Montana
R1043	.....	William S. Petty	Wheeler Field, Hawaii
R1098	.....	Ted E. Matzen	Miles City, Montana
R1151	.....	Robert Brown	Goshen, Indiana
R1213	.....	H. H. Crow, Jr.	Sacramento, Calif.
R1815	.....	G. H. Tuncil	Bakersfield, Calif.
R1829, Nev.-2	.....	Russell Cain	Reno, Nevada
R1849	.....	A. G. Hooker	Liberty, Sask.
R1885	.....	D. L. Bishop	Liberty, Sask.
R1905	.....	Forrest L. Webb	Salinas, Calif.
R1906	.....	Ivor Sutherland	Mill Valley, Calif.
R1919	.....	George J. Hiss	West Hollywood, Calif.
R1922	.....	Harry H. Johnson	Los Angeles, Calif.
		Art Cushen	Invercargill, N. Z.
		Fred A. Anderson	Ft. Mills, P. I.
		Charles Benedict	Altadena, Calif.
		Tom Brandon	Edmonton, Alta.
		Alan I. Breen	Dunedin, N. Z.
		R. A. Butts	Easton, Wash.
		R. V. Caldwell	Neskowin, Oregon
		R. D. Doolittle	Glendale, Calif.
		Lionel Jacobs	Pasadena, Calif.
		Harry C. Powell	Portland, Oregon
		T. P. Vasilopoulos	West Los Angeles, Calif.
		Ken White	Oakland, Calif.

**YOU BENEFIT  
FIVE WAYS  
SEE PAGE 96**

## TIME CONVERTER

The RADEX Map of the World with Time Converting Dial is the most useful accessory any radio fan could have around. Just a twirl of the dial shows the correct time at any location in the world. No calculation is necessary; the dial does all the work. The price is only

# 25c

**You Can't Get Along Without It. Order Now.**

Please use order form on Page 96

**The Radex Publishing Co., Emerson, New Jersey**

# The Radex Contest

## Radex Contest Prizes

### All Wave Contest

Hallicrafters Sky rider Defiant Receiver, SX24

2nd Prize, \$30 in cash

3rd Prize, 1 Year Subscription and Membership in the World DX Alliance

### Amateur Contest

1st Prize, \$15 in cash

2nd Prize, Subscription to Radex for one year

3rd Prize, 1 Year Subscription and Membership in the World DX Alliance

### Broadcast Band Contest

Philco Strap-around Portable Radio

2nd Prize, \$15 in cash

3rd Prize, 1 Year Subscription and Membership in the World DX Alliance

### Shortwave Contest

1st Prize, \$15 in cash

2nd Prize, 1 Year Subscription and Membership in the World DX Alliance

3rd Prize, Spatari Radio Language Book

A tabulation of the Contest coupons received to date shows a close race in two divisions of the Radex Contests. The leaders in the Broadcast and the All-Wave Divisions are closely bunched together, but the first place occupants in the Shortwave and Amateur Divisions are running away from the pack. But a lot can happen yet,

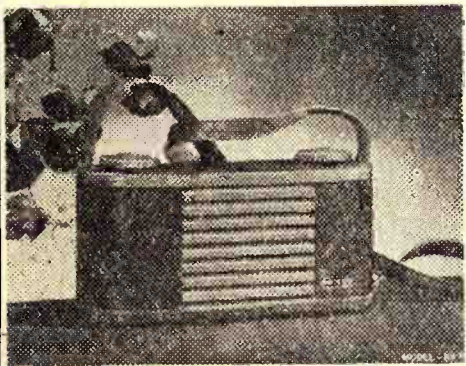
## For The Broadcast Band Champion

# PHILCO

The PHILCO Corporation, Tioga and "C" Streets, Philadelphia, Pa., has donated a strap-around portable radio, Model 89-C, to be offered as a prize.

This portable radio plays anywhere, and is ideal for hikes, picnics, at the beach, wherever you go, indoors or out. It is truly a tiny package of "dynamite" in performance, with the power and fine tone of a radio many times its size. The aerial is contained in the shoulder strap. It is extremely light in weight, and its smart, plastic case recently won one of the top awards in the Modern Plastics Contest in New York City.

The PHILCO strap-around portable radio will be offered to the winner of the Broadcast Band Championship division of the contest.



and the picture presented when the second batch of coupons comes in may be an entirely different one.

In the All-Wave Division, Ed Laudansky, of Dorchester, Mass. is leading, with 115 points. Not far behind is Donald Fraser of Detroit, with '96 points, and in third place is Bill Scott of Johnson City, Tenn.

Harold Hutton of Rome, N. Y. stands at the top of the Broadcast Band Division, registering 415 points. Weston Richards of Zion, Ill. follows

with 340, and in third place Chester Stedman of Westerly, R. I. comes up with 243 points.

Because of the distance that verifications have to travel, the Shortwave Division has barely gotten a start. By the time our next issue is out, however, a lot of verifications ought to be back and this Division will look more lively. Leading at present is Al Renfro, Jr. of Johnson City, Tenn., with 12 points. Ed Laudansky is in second place with 4 points. Many contestants are tied for third place with 1 point.

Mike Unger of Detroit is running away with the Amateur Contest, showing 228 points, more than 200 points ahead of the second place contender, Harry O'Meara of Manchester, Mass. Merton Meade of Kansas City, Mo., brings up third place with 18 points.

One reader asks why we do not count CW (code) stations in the All Wave Division, "because," he says, "this really places a handicap on us poor CW listeners." Well, to tell the truth, we'd like to do it, but we think if we did it that we would be placing a heavy handicap on those hundreds of listeners who do not read CW.

And now, a letter from a reader who compliments us, by telling us that our prize awards will not be properly distributed. "The only thing wrong with the contest", Bob Gilchrist of New York City writes, "is that the prize goes to the wrong person. Anybody who comes in ahead of the pack must already have a pretty good radio. But I guess there's no escape from that; you can hardly award a Hallicrafters as a booby prize." Bob's right, of course; the chap who comes in last needs the Hallicrafters the most.

It is not too late to enter the big Radex DX Contest. Copies of the November - December, 1940 issue of RADEX, in which appeared Coupon Number One, can still be obtained from our offices in Emerson, N. J.

For the benefit of those of our readers who may have missed our announcement in our last issue, the RADEX Contests cover four divisions of DXing: All Wave, Shortwave, Broadcast Band and Amateur. The Contest began on October 1st, 1941, and as soon thereafter as possible the name of the winners will be published in RADEX.

The Radex Publishing Co.,  
12 Locust Ave.,  
Emerson, N. J.

Date.....

Gentlemen:

My entry in the RADEX Contests follows:

	A	B	C
	Stations Verified Since Oct. 1, 1940	Countries Verified	Points
Broadcast Band	.....	.....	.....
Shortwave	.....	.....	.....
Amateur	.....	.....	.....
All Wave	.....	.....	.....
<i>(Column A times</i>			
<i>Column B equals</i>			
<i>Column C).</i>			

Name .....

Address .....

City and State .....



The purpose of the Contests is to learn who can receive the greatest number of verifications from radio stations during the year, and all verifications entered must confirm stations heard during this period.

Contestants will be allowed two months after the close of the Contests, until December 1, 1941, to receive verifications from distant stations heard prior to the official closing date of the Contests. It will not be necessary for contestants to send us their verifications until we request them to do so.

Each contestant may enter as many Divisions of the Contests as he wishes.

A contestant can take first prize in only one contest. If a person should happen to place first in two divisions, he will be offered his choice of first prize in one of the divisions, and second prize in the other.

Points will be computed by multiplying your total number of verifications by the number of countries represented. If you have 700 verifications from 20 different countries, your score would be 700 times 20, or 14,000.

Only one verification from each station will be accepted. If a station works on several frequencies, employing the same call letters on all frequencies, it can be counted as a separate station for each frequency, PROVIDED the frequency on which the station was heard is clearly shown on the verification.

Verifications from stations can, of course, be in any form whatever—QSL cards, postal cards, letters, international reply cards, or cards prepared by the listener and properly signed by the station.

With countries being eliminated and new ones being formed nearly every week, we believe that the fairest way to determine the nationality of a verification will be to be guided by the postage stamp under which it is mailed. Thus, if a DXer hears a country called Radioland, and receives his verification with a Radioland stamp on it, it will still be

**FOR THE ALL-WAVE  
CHAMPION**

**HALLICRAFTERS**



Through the courtesy of Mr. Royal Higgins and Mr. W. J. Halligan, The Hallicrafters, Inc., of Chicago, Ill., have donated a HALLICRAFTERS SKY-RIDER DEFIANT RECEIVER, Model SX-24, to be given to the person who will be declared the All Wave Champion.

This all-wave receiver is truly one of the finest communications sets on the market today. Frequency Meter tuning is provided by means of two translucent illuminated dials, one for the main tuning control and the other for the electrical handspread system. A built-in noise limiter is provided. Variable selectivity in six positions from sharp crystal to broad I. F. A. carrier level meter is calibrated in "S" units and decibels. A double-balance bridge-type crystal filter, frequency stabilization and a full four-band tuning range from 540 kcs. to 43500 kcs. all contribute to its peak performance. Ample selectivity is provided by a T. R. F. stage and two high-gain I. F.'s.

Radioland even if the country should later become a "protectorate" of Costa Rica. However, if after the change, he heard the same station again and it was verified as a Costa Rican station, he could count it as another country. This may not be the most perfect way to handle such a situation, but we believe its simplicity commends it.

#### **New Prizes**

Through the courtesy of Erick R. Johnson, contestants may now compete for a third prize in each divi-

sion. The Director of the World DX Alliance, Mr. Johnson, has offered a one-year membership in the Alliance and a year's subscription to their bulletin, to the third prize winner in the All Wave, the Amateur and the Broadcast Band Contests, and to the second prize winner in the Shortwave Contest.

#### **All Wave Division**

The person who receives the greatest number of points from all radio stations using voice, from 500 to 500,000 kcs. will be the All Wave Champion. The All Wave Division includes all radio stations—broadcasters, amateurs, commercials, ships, police, etc., but not stations using code.

#### **The Amateur Division**

The person who receives the greatest number of points from amateur stations transmitting within the recognized amateur bands will be declared the Amateur Champion.

#### **Broadcast Band Division**

The person who receives the greatest number of points from broadcasting stations operating on frequencies between 500 and 1600 kcs., located anywhere in the world, will be declared the Broadcast Band Champion.

#### **Shortwave Broadcast Division**

The person who receives the greatest number of points from stations broadcasting programs of entertainment between the frequencies of 1600 and 500,000 kcs. will be titled the Shortwave Champion.

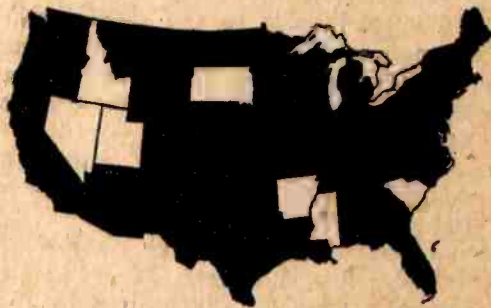
#### **SEND STANDING NOW**

All contest entries must be sent on the coupons which will be printed in every issue of RADEX, and failure to send a coupon will eliminate a contestant. To insure the receipt of your copy of every issue of RADEX, it is suggested that you send in a subscription, which is only \$1.25 per year. See the subscription blank on page 96.

Do not hold the coupons until the end of the contest, but send each of them, as soon as possible, to RADEX, Emerson, N. J. Each coupon may be

held, however, until the next one is in hand; thus, send Coupons 1 and 2 now, if you have not already done so; send Coupon No. 3 when you have received your next issue of RADEX.

## *The Radex Club*



By ANNE TENNA

Since the last meeting of the Radex Club, 169 new members have been enrolled, bringing the total membership up to 2104 active DX fans from every walk of life, from every part of the continent. The growth of your club is due in no small measure to the very fine cooperation of many of the members who are making their friends acquainted with the fascination of DX.

Al Renfro, Jr., of Johnson City, Tenn., has set a goal of ten new members from his city; Stanwood Morss of Bradford, Mass., has sent the names of several fans to headquarters, and members in several other localities are trying to start local chapters. All we can say is: FB (and FB means "fine business.")

Outstanding among requests for membership recently were a letter from an XYL who complained that her husband had overlooked the fact that she, too, is a DX hound when he sent in his own application for membership; from Julius Hart, announcer at WIBM in Jackson, Mich.; and one from Jose Carriazo, Jr. of Havana, Cuba, shortwave editor of Radio

## Union Magazine.

Anyone who is interested in DXing may join the Radex Club. There are no obligations and no fees. Just send your request for membership on a postal card and we will send your membership card.

## DX Calendar

The winners of the WBAB DX program of January 18, 1941, are as follows:

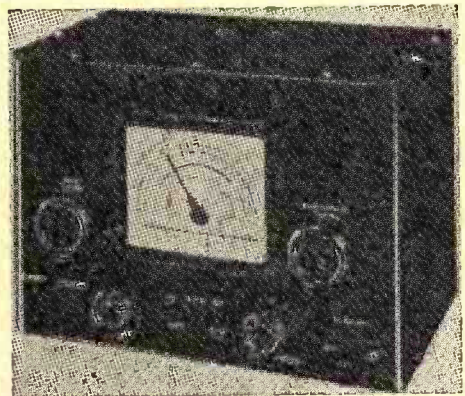
First telephone call was received from Bernard Duffy, Staten Island, N. Y. The first telegram was received from Nick Woytan, Syracuse, N. Y., and the most distant telephone call was from Marion Merton, Virginia Beach, Va.

Special programs to be broadcast in March will be as follows, all time being EST.:

- March 9, 1:45-2:00 a.m., TG1, Guatemala City, 1310 kcs.
- March 9, 1:45-2:00 a.m., TG2, Guatemala City, 6190 kcs.
- March 11, 4:45-5:00 a.m., KTOK, Oklahoma City, 1370 kcs.
- March 12, 4:25-4:40 a.m., WKST, New Castle, Pa., 1250 kcs.
- March 12, 4:35-4:50 a.m., WJLS, Beckley, W. Va., 1210 kcs.
- March 20, 3:00-4:00 a.m., WCNC, Elizabeth City, N. C., 1370 kcs.
- March 24, 3:00-3:15 a.m., WINN, Louisville, Ky., 1210 kcs.
- March 24, 5:30-6:00 a.m., WPID, Petersburg, Va., 1210 kcs.
- March 26, 5:00-6:00 a.m., WCOA, Pensacola, 1340 kcs.
- April 4, 3:00-3:15 a.m., KWAT, Watertown, S. Dak., 1210 kcs.
- April 5, 2:30-3:00 a.m., WFPG, Atlantic City, 1420 kcs.
- April 7, 5:00-5:30 a.m., WJLS, Beckley, W. Va.; 1210 kcs.
- April 9, 4:35-4:50 a.m., WJLS, Beckley, W. Va., 1210 kcs.
- April 13, 1:45-2:00 a.m., TG1, Guatemala City, 1310 kcs.
- April 13, 1:45-2:00 a.m., TG2, Guatemala City, 6190 kcs.
- April 23, 5:00-6:00 a.m., WCOA, Pensacola, 1340 kcs.

# REAL Short Wave RECEPTION

with  
NEW  
ECHOPHONE  
Commercial



Only  
**\$19.95**

Think of an outstanding communications receiver for this exceptionally low price! TUNES FROM 545 kcs. to 30,500 kcs. IN THREE BANDS AND COVERS STANDARD BROADCAST and has a beat frequency oscillator for locating weak stations, self-contained speaker, headphone tip jacks and directly calibrated dial with various channel services marked. Other features are: AC/DC operation, 115/125 volts, electrical band spread on all bands, dial calibrated in megacycles with all important service bands indicated band spread logging scale, complete isolation for headphones through phone circuit transformers and undistorted power output 6/10 watts.

Receiver is housed in a metal cabinet nicely finished in satin black lacquer. Size is 7½" high x 10⅞" wide x 7⅞" deep. Shipping weight 12 lbs.

Write for Free Literature

Price Complete With Tubes is Only \$19.95

Order from

**RADEX**

12 Locust Ave. Emerson, N. J.

# High Frequency Globe Trotting

By RAY LA ROCQUE

## Report-O-Meter

Norman H. Kane	100%
Edward Laudansky	67%
Malcolm Horlick	36%
Al Renfro, Jr.	31%
Walter E. Welsh	31%

Except for Ed Laudansky, the meter this month carries a list of new comers, chief of which is Norman Kane from out Pennsylvania way who blasted his way to the top with some choice reporting. Honorable mention goes to Art Hankins, Art Stevens, and Arnold F. Worme. Try again next month, boys.

Our sincere apologies for not being able to have the Report-O-Meter last month. For those interested, here's how the meter registered last month: Robert Skyten—100%, Edward Laudansky—47%, Charles Meyers—46%, William McMahan 40%, Fred Borchertd 36%. . . . And the boys who missed our list of acknowledgements at the end of this department last time, we include this month both the reporters for this issue and last.

Interest in the shortwave section of the big RADEX contest doesn't seem to measure up to that displayed on the broadcast and ham bands. How about more activity, boys?

## ASK US ANOTHER

A. M. Hankins of Latrobe, Penna. wants to know if Radio Eiran in Eire is still on the air, and what their actual schedule is. . . . For whose who are waiting for "Radio Guadeloupe" to verify, Art Hankins pens the encouraging note that he received his after waiting 1 year and 10 months! . . . Stations heard on 13000 kcs., and 14500 kcs. with speech sounding like Japanese or Chinese. This signal was heard by Chas. O. Peach, 6416 Kingshighway, St. St. Louis. Mo. from 9:30-10 p.m.

Quoting this time, from Mrs. John Matthews, Lenox, Mass., "I got a Canadian station on 5600 kcs. and lis-

tened for forty-five minutes but never their call letters or location—though they were loud and clear. They signed off with a siren and called themselves 'The Northern Broadcasting Company'. . . . The station on the 31 meter band coming on at 11:45 p.m. with exercises is undoubtedly ZRL in Klipheupal, So. Africa. This for the benefit of Edward R. Omelian of Watersmeet, Mich.

The QR's of stations W2XJI and YNDG are required by Jack Stephenson, 2721 W. 21st., Oklahoma City, Okla. (W2XJI can be addressed in c/o the Bamberger Broadcasting Corp., Newark, N. J.—RL) . . . Information on a Spanish speaking station on approximately 12140 kcs. is desired by Vernon Gibbs, Lexington, Ky. . . . And, H. H. Chambers of "Faraway," Narragansett, R. I. would like someone to solve the mystery of the interference he gets on GSC, caused by WLWO. (WLWO is now using that channel according to a recent grant by the FCC.—RL)

There is a station in El Salvador on 6590 kcs. which sometimes uses English announcements. Signal is very strong, often much louder than COHI. It apparently relays some broadcast band station and signs at midnight with a national anthem. This from Norman aKne of Drexel Hill, Penna.

Charles Meyers of 3643 W. Flournoy St., Chicago, Ill. asks a couple of questions and supplies a couple of possible answers for confirmation. A

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

Ray LaRocque  
105 Highand St.,  
Worcester, Mass.

(Please use EST in reports)



station announcing as "Radio Rabat" on 9885 kcs, may be CNR testing on a different frequency. Music and speech on 12120 kcs., may be TPZ in Algiers, Algeria. . . . Mae McKenzie of 823 Shelby St., Indianapolis, Ind. wants to have a French station on 12045 kcs. identified. The station came on at 3:35 p.m. and signed oz at 4:10 p.m. with "Bonsoir, messieurs, bonsoir mesdames."

Roy Riedel, 725 Bellview Place, Indianapolis, Ind. starts our department off with an answer. It is for William McMahon and concerns a station on 11400 kcs. It is Paramaribo, Suriname—whether or not it uses the same call as the 6800 kcs. station (PZH) is not known, but it is definitely heard late in the afternoon. The station on 11970 kcs. may be HI2X and the French speaking station on 9890 kcs. is HH3W (9890 kcs.) in Port-Au-Prince, Haiti.

Perhaps some kind RADexer can help H. Mandel, 12625 Notre Dame E., Montreal, P. Q. with this one. We'll let him tell you about it: "The station comes on the air Sunday evenings about 6:45-7:00 p.m. playing a march. Program continues with talking in Spanish or Italian and oriental or arabic type of music. This lasts for about an hour. Heard often during the broadcast were 'Republica Dominicana' and 'Palestine'."

#### QUOTE AND UNQUOTE

Bob Hetzel, 1327 N. 18th Street, Milwaukee, Wisconsin: "I first read one of your magazines the other day and liked it very much. I have been a DXer for four years and have managed to verify 108 countries. My better catches verified are XGAP, FK8AA, ZUN (only one in the U. S!), Radio Leo, YCP, ZNB, XYZ, CR6AF, ZB2B, CR7BH, and many more."

Bill Scott, 313 W. Holston Ave., Johnson City, Tenn: "I would like to get some information on obtaining cards from CW commercials. I hate to hear some stations like CUT, JUI, XDA, FZG and the like without being able to get their cards." (I don't

believe these stations have cards and if they did it would be risky business writing them as most of the time they are transmitting information that is confidential and penalties for divulging this information are steep—RL)

Arnold F. Worme, 6876 Sherbrooke St., West Montreal, P. Q: "I have been DXing on the shortwaves for nine months and have logged 90 odd stations from the six continents. My first veri card came from PSH and is white with a blue map of Brazil."

Charles Squires, 606 West 135th St., New York, N. Y.: "Tell all Radex readers that I reply 100% to SWL's and to foreign readers who write in English, I will send with my card, ten different post card views of New York, N. Y."

Dick Knoth, 115 Mt. Vernon Ave., West View, Penna.: "I have just finished the last edition of RADEX and let me say that it is really a magazine. I have been DXing 8 months, and between a 1937 PHILCO and an SX-24 HALLICRAFTERS, I have done a lot of listening.

Harold Satterthwaite, 3166 Midvale Ave., Palms, Los Angeles, Calif.: "Here is a phenomenon with which I feel Radex readers should be acquainted. The environs of San Diego, Calif. have an extremely freakish characteristic in the form of the ability to receive short wave signals from great distances. As far as I know, no other location in the United States has such characteristics. Then too, at National City, so called suburb of San Diego, just north of the city, conditions are just reversed. Here it is possible to receive standard broadcast signals from great distances. This caused me much grief as I was following reports in RADEX from a reader in this locality. Stations which he reported with strong signals were not even audible on mine. Until I found out about this situation, and after carefully checking my receiver I had lost a little interest in DX!"

Al N. Cole, Jr., 3005 Buckingham St., Norfolk, Va.: "Why not ask the leaders of the Report-O-Meter to send in the age and make of their receivers and how many countries and states that they have heard? I got a new Howard 435 receiver for Christmas."

Norman H. Kane, Jr., 3721 Bonsall Ave., Drexel Hill, Penna.: An interesting letter accompanied the veri card from HP5G. George Williams, in his letter, states that he puts on 'special DX'ers programs' and continues 'if you want one for your magazine or town I would be glad to carry out this idea for the good will of Panama and the U. S. A.'

Thomas Woodbury, 152 Leavitt St., Hingham, Mass.: "WBZ has opened their new short wave station, WBOS, which went on the air New Year's Eve and is now broadcasting daily to Latin America."

Bernard F. Arnold, 994 Celma Ave., Akron, Ohio: "I have just bought my second issue of Radex and to my knowledge it is the best magazine out. I have been a shortwave listener for about eight months. Some verifications I have received are JZK, TGW, COBZ, CHNX, COK, HP5A; etc. I use a Silverstone receiver."

Fred Benkley, Jr., R1773, China Spring, Texas: "Although I have been a RADEX reader for almost a year, this is my first report to your column. My DXing interest developed without outside stimulation during about two years, as I have never corresponded or been acquainted with any other DXers. I DX on the broadcast band and shortwave broadcast frequencies with a Howard 430. To Arthur Stevens who failed to receive a veri from TGWA, I would like to say I sent a postal card report and received a veri in two months and twenty eight days. I would appreciate some hints on short wave aerals as I have not been able to secure an aerial which offers suitable reception on all short wave bands. I have tried RCA 395 and RCA "Spider Webb" types. The former is suitable for 25

and 31 meters, but not as good on 16, 19, and 49 as a single wire type."

#### NOT SO SHORT WAVES

It seems that a group of DXers whose interest centers on the commercial bands that fall between the standard broadcast and the shortwave broadcast bands have organized what is called the COMMERCIAL RADIO ROUND TABLE. The organization, through its guiding hand, Chet Roman of Chicago now issues a monthly bulletin that is full of reports and facts about these little known stations. To devote enough space in this department in RADEX so as to include even one-fourth of the material sent in by members of the Round-Table would take up much more space than we can follow for "Not-So-Short Waves." It must be understood that only a small minority among the DX fraternity listen to these bands and we must arrange our news accordingly. It would be appreciated, in making reports for this department, if the reader would kindly include only his important items instead of a complete list of what has been heard. In this manner, we would be able to list here, each month, the most important facts and changes.

The number of reports received for this column from different readers in comparison with the total number of reports received for the entire short wave department will determine how much space this department shall occupy.

KYZF located at the Emigration headquarters of the Border Patrol in Alpine, Texas on 5912 kcs. was heard testing on a Sunday night with R7 signal. (Arnold—Ohio)

WAR, the War Dept. station is now working amateurs as follows: from 7-8 p.m. on Tues., Thurs., and Fri.) for hams from 3500-400 kcs. . . . from 10-11 p.m. on same days for hams from 14000-14400 kcs. WAR will use 4024 kcs. for the 3500-4000 kcs. hams, and 13320 for the 14000-14400 kcs. hams. They will call CQ, followed by the band and ZCAA. . . . NOQ on 2662 kcs. is a U. S. C. G. station now

located at Mobile, Ala. and has weather reports at 11:20 a.m. and p.m. (Bennett-N. J.)

WANA on 2726 kcs. at Homerville, Ga. was heard testing Jan. 10, '41 at 9:15 p.m. The correct QRA is Consolidated Timber Protective Organization, Homerville, Ga. . . . (Wells-Ont.)

"Cutter Hyacinth" heard talking with Charlevoix, Mich. on 2670 ks. . . . Canadian airport stations in Montreal, Ottawa, Toronto, and North Bay heard on about 4350 kcs. (Richards-III.)

Six special emergency stations of 50 watts are operated portable by the Bell Telephone Co. They are KQIP on 2590 kcs. in Dumas, Tex.; KQIO on 2590 kcs. in Amarillo, Texas, KQCA on 27526 kcs. at Borger, Tex., KDXC on 2726 kcs. at Amarillo, Texas; KQXZ on 2836 kcs. at Hereford, Texas; and KQXY on 2836 kcs. at Amarillo, Texas. . . . These stations started to operate about the middle of last November, just after the destruction caused by ice and sleet in the Texas Panhandle region, and continued for nearly a month. These stations carried on long distance toll service for the telephone company. They operated day and night. Their signals were R5-6 in the daytime and R7-8 in the evening. (Blinn-Kansas)

WOX and WAQ New York on 2522 kcs., WOU Boston on 2506 kcs., WGB Norfolk, Va. on 2538 kcs., WDR Miami, Fla., on 2514 kcs., and WAK in New Orleans on 2558 kcs. were all heard here. (Medric-N. Y.)

CY4A on 4755 kcs. at Bousquet, P. Q. can be heard every night at 7:20 p.m.

CB-18 at Lynn, Mass.—The Naval Reserve Station conducts code lessons Mon. to Fri. 6:45 p.m. to 7:15 p.m. on approximately 2360 kcs.

575 airports and airplanes have been heard at this location. (Welch-Mass.) (Radexer Welch sent in an elegant nine page report, which unfortunately is much too lengthy to be included here. We have selected but a couple

which we thought most important—RL)

Please, "Not-So-Short-Wavers" do not report stations which are common and which make little difference to other readers. Include in your reports only stations which you think will contain material of value to other DXers—in this manner your department will always contain the "cream" of the reports.

### "FM" FACTS

"FM", the radio of the future is going ahead by leaps and bounds. Slowly, but surely, the experimental licenses owned by FM stations are being converted into regular broadcast licenses. Slowly, but surely, the public is being convinced of the distinct advantages possessed by this type of broadcasting. Now the FCC has provided an entirely new identifying type of call letters for FM stations (See FM station list on another page).

Roger Dissell of West Hartford, Conn. wants an entire section or department in RADEX devoted to FM. This is far fetched at present, of course, as interest is not yet high enough to warrant this. But it will come—and soon, judging from the strides FM has made of late. IF you are buying a new receiver, remember that having the frequency modulation feature in your receiver will cost but a little more than the regular cost of the set.

WIXOJ was regularly heard this Summer while at Yarmouth, Me. Signals were fair. At the same spot the signals of WIXTG were faintly audible. (Dissell-Conn.)

W1XPW here in Hartford, have shifted from 43400 kcs. to 44100 kcs., and are broadcasting daily from 2-10 p.m. Programs are mostly recordings. (Dissel-Conn.)

W1XSO is on the air from 3:30-11:30 p.m. with relays of WTIC programs (Dissel-Conn.)

W1XEH (also owned by WTIC) are heard occasionally testing just below W1XOJ. W1XOJ and W2XMN are occasionally heard here meakly.

(Dissel-Conn.)

W1XOJ is marvelous on my new FM Zenith Radio here in Manchester, 60 miles away. Their signals are strong and clear and music on an "FM" set is something to really enjoy as instruments can be heard as they actually sound to the natural ear: W1XTG is heard with a weak signal here and have logged W2XMN and one of the New York City stations, but of course these are not heard to be enjoyed. (Meader-N. H.)

W9XCR in Chicago was heard here once relaying CBS programs. A station using AM on the same band was identified as W9XAW in Minneapolis, Minn. These stations were heard at 12:00 noon. Evidently this is what is known as "sporadic E" condition. (Dissel-Mass.)

FM station W2XMN was heard on my radio broadcasting the Rice-S. M. U. football game on 43000 kcs., but they were QRM'd by an amateur on 42800 kcs. How come I can hear and partially understand "FM" transmissions on my AM radio? (George Wetherill-Penn.) "FM" signals are not entirely inaudible on regular AM radios, but their quality on such sets is very poor and hardly enjoyable.—R.L.

Winston-Salem Journal applied to the FCC for an FM station for this area to serve 69400 sq. mi., which would mean a power of approximately 50 kw. (Waldman-N. C.)

## SHORTWAVES IN REVIEW

### Argentina

LRX on 9660 kcs. is being heard nightly with popular music. This station is in Buenos Aires and has complete English announcements at 10:05 p.m. (Hankins-Pa., Renfro-Tenn.)

LSX on 10350 kcs. was heard at 1:45 p.m. talking to New York. (Renfro-Tenn.)

LSK-3 on 10250 kcs. was heard in two-way contact with London at 5:15 p.m. (Kane-Pa.)

### Australia

Revised A.B.C. schedule: Trans. 1:

3:25-4 a.m. to New Caledonia and Fr. Oceana.

Trans. II: 6:40-7:15 a.m. to North and East Rsia.

Trans. III: 7:25-8:0 a.m. to East North America.

Trans. IV: 8:10-8:45 a.m. to South and East Asia.

Trans. V: 10:25-11 a.m. to Western North America.

Trans. VI: 11:55 a.m. to 12:30 p.m. to South Africa.

Trans. VII: 12:55-1:55 p.m. to Southern Europe.

Trans. VIII: 2:30 p.m. to 4 p.m. to Northern Europe.

Trans. IX: 6:10-7:00 p.m. to Eastern North America.

Trans. X: 12:55 a.m. to 1:45 to Western North America.

Trans. I has VLQ on 9615 kcs.;

Trans. II has VLQ on 9615 kcs.;

Trans. III has VLQ-5 on 9680 kcs.;

Trans. IV has VLW-2 on 9650 kcs. and VLQ-7 on 11880 kcs.;

Trans. V has VLQ-5 on 9680 kcs.;

Trans. VI has VLW-5 on 6180 kcs., and VLQ on 9615 kcs.;

Trans. VII had VLQ-2 on 11870 kcs.;

Trans. VIII has VLQ-7 on 11880 kcs.;

Trans. IX has VLQ-5 on 9680 kcs., and Trans. X has VLQ-8 on 17800 kcs. (Kane-Penna.)

VLQ on 9615 kcs. was logged from 2-2:30 p.m. with strong signals. (Simonian-Mass.)

VLQ-5 at Sydney on 9680 kcs. was heard from 7:30-8 a.m. with a broadcast on Australia. (Stracener-La., Waldman-N. C.)

VLQ-8 on 17800 kcs. was heard at 12:30 a.m. with news in English until sign-off at 1:45 a.m. (Renfro-Tenn.)

VLW-2 on 9560 kcs. at Perth and VLQ-2 on 11870 kcs. broadcast in parallel in the morning with ABC programs. News in English at 8:50 a.m. with English program following until 9:20 a.m., when they change to another language. Preceding the news in English there is a French program until 8:49 a.m. VLQ-2 cannot be heard—just WLW-2! Identification is by a series of chimes, sometimes but a few notes, sometimes playing an actual tune. (Kane-Penna., also Lau-

dansky-Mass., Stracener-La., and Hankins-Pa.)

#### **Bahama Islands**

ZNS on 6090 kcs. is on the air daily from 8-8:30 a.m., 1-2 p.m., and 5:45-9 p.m., the addition of a morning transmission may make it easier to log in the mid-west. Address may be either P. O. Box 48 or Mr. K. P. Brown, Director of Telecommunications, East St., Nassau. (Kane-Penna., Scott-McConnell-Ohio.)

#### **Belgian Congo**

OPM (call not used) on 10140 kcs. announces as "Radio Congo Belg" and comes on the air at 1:41 p.m. with a series of high pitched notes. At 1:51 p.m. a series of musical notes in weird sequence until 1:56 p.m. when orchestra begins to play. At 2:00 p.m. a man speaks in French identifying the station. There is little QRM and station is heard until sign-off at 2:45 p.m. at which time the Belgian National Anthem is heard. (Laudansky-Mass., Kane-Pa., Hankins-Penna., and Bocherdt-Minn.)

#### **Brazil**

PSA on 21080 kcs. is not being used. PSE on 14935 kcs. broadcasts in German on Wednesdays from 4-4:30 p.m., in Italian on Thursdays from 3-3:30 p.m., and in French on Saturday from 3-3:30 p.m.

PSH on 10220 kcs. broadcasts in English on Mondays from 8-8:30 p.m., on Tuesdays from 8-8:30 p.m. and in Spanish on Friday from 7-7:30 p.m. (Johnson-Me.)

#### **Canada**

CJCX on 6010 kcs. is on daily from 8 a.m. to midnight with English news at 10 p.m. Verifies promptly. (Arnold-Ohio.)

CJRX on 11720 kcs. at Winnipeg, relays CJRC daily and announce as "Manitoba's Friendly Station". They are best heard from 7-10 p.m. (McConnell-Ohio, Horlick-Ohio, Laudansky-Mass., Bill Scott-Tenn.)

VE9DN on 6005 kcs. at Montreal is being heard and is the best Canadian at this location at night. (Horlick-Ohio.)

#### **Chile**

CB-1180 kcs. on 11945 at Santiago, Chile is on evenings from 7 p.m. to 11 p.m. They are best from 9-10 p.m. News in Spanish at 10 p.m. (Wormep. Q., Peach-Mo., Laudansky-Mass.)

#### **Colombia**

HJGB on 4775 kcs. sends a white card printed in blue. On the back the signer penned "Merry Christmas and Happy New eYar". (Stephenson-Okla.)

#### **Costa Rica**

TI-4NRH still going strong on 9692 kcs. on Tuesdays, Thursdays and Saturdays from 9-10 p.m. Location is Heredia and U. S. stamps or coin is preferred for verification as I.R.C.'s are not valid in Costa Rica. (Arnold-Ohio, Stracener-La.)

TIJK on 6010 kcs. at Puntarenas is a new station being heard evenings. (Laudansky-Mass.)

TIPG on the air daily at 6:00 a.m. until 11:30 p.m. (Laudansky-Mass.)

TIRCC on 6185 kcs. was heard on Jan. 1 with a program of popular music from 5:10-5:36 a.m. with Spanish announcements. They identified themselves in English. (Stracener-La.)

#### **Cuba**

CLX on 7100 kcs. at Havana "Observatorio Nacional" was heard at 7:25 p.m. testing for the United States. Weather report given at midnight. (Laudansky-Mass.)

COBZ on 9030 kcs. can be addressed at Box 866. (Arnold-Ohio.)

COCY on 11460 kcs. is a new short wave relay for CMCY and is heard daily with a good signal. (Mills-Ont., Hankins-Penna. Disagreeing with the above. Johnson-Me., says the call on 11460 kcs is COCF!

COCO on 8700 kcs. in parallel with CMCK (broadcast band) comes on at 8 a.m. and signs off at 11:30 p.m. Address is P. O. Box 98, Havana. (Hankins-Penna.)

#### **Dominican Republic**

HJ-1J is now being heard on 5975 kcs. instead of 5960 kcs. They are only slightly QRM'd on the new frequency. (Laudansky-Mass.)

HI-1N on 6245 kcs. relays a program from Palestine Thursday and Sunday evenings from 6:45-8:30 p.m. (Hall-Mass.)

HI-8J at La Vaga has moved to 6383 kcs., and HI-1A to 6430 kcs. (Welsh-Mass.)

#### Ecuador

HC2AK on 9380 kcs. at Cuyaquil was heard with god signals on this frequency—just a little higher than COBC. (Laudansky-Mass.)

HC2XA on 9377.5 kcs. as checked by CBS in New York previous to a hook-up for relaying the "World Today" broadcast. (Kane-Penna.)

HCJB on 12450 kcs. "The Voice of The Andes" at Guyaquil was still the most often reported station in this country this month. Their signal is splendid and their English programs at 6 and 9 p.m. daily are usually interesting. Verification from HCJB contains a small picture of the antenna and studios with three stripes of red, blue, and yellow running diagonally across the card. A booklet on Ecuador usually accompanies the card. (Murphy-Wisc., Janata-N. Y., Woodbury-Mass., Renfro-Tenn., Stracener-La., Horlick-Ohio, Hall-Mass., and Johnson-Me.)

#### Egypt

SUX on 7865 kcs. at Cairo broadcast to London, who in turn relayed the program to CBS in New York. Cairo was heard as well here as the Rugby station in England. (Kane-Penna.)

#### France

TPC-5 or "Station Y" as the Germans call it now on from Paris at various times throughout the day. Schedule seems to be made up of short transmissions. They announce as "Vive la France". (Kane-Pa.)

TPC-13 on 9520 kcs. was heard with Oriental music from 3:45-4:04 p.m. announcing "Allo, allo, Ici Paris Mondial". (Kane-Penna.)

#### French Equatorial Africa

"Radio Brazzeville" on 11970 kcs. is still being heard from 3:30 until 4:15 or 4:30 p.m. Of late this station

has been using various frequencies in order to avoid jamming by "U-Know-Who". They were heard on 10970 kcs., free of jamming. (Laudansky-Mass., Johnson-Me., Kane-Pa., Borcherdt-Wis.)

#### French West Africa

"Radio Dakar" is practically impossible to verify. Reason: there is no mail service to Dakar. (Laudansky-Mass.)

#### Germany

DJB on 15200 kcs. is on daily from 6-9 a.m.

DJC on 6020 kcs. si on from 8 p.m. to 1 a.m.

DJD on 11770 kcs. is on from 4:50 p.m. to 11 p.m.

DZD on 10540 kcs. is on from 5:45-6:35 p.m. and from 7-11 p.m.

"Station Y" on 9520 kcs. is on from 4:50-11 p.m. (Official North American Schedule.)

A complete list of stations in Germany or in German occupied territory follows. This list is the work of W. E. Welch of Lynn, Mass.

6010—OLR2A	11840—DXW
6010—DXO	11855—DJP
6020—DXP	11875—OLR4C
6030—DXP	11900—OLR4D
6030—OLR2B	15110—DJL
6072—DJY	15120—SP-19
6079—DJM	15120—DX42
6115—DXD-2	15160—DXS
6115—Warsaw	15160—OLR5C
6115—OLR2C	15200—DJB
6160—DXA	15230—DXT
6170—DXQ	5230—OLR5A
6175—DXH	15275—Crakow
6190—DXG	15280—DJJQ
6195—DXI	15320—OLR58
7240—DXJ	15320—DXU
7270—DXM	15340—DJR
7290—DJI	17760—DJE
9504—OLR3B	17780—Dwow
9525—Lodz	17815—DJG
9525—SP-31	17825—DXC
9525—DXY	17830—OLR6A
9540—DJN	17830—DXV
9550—OLR3A	17845—DJH
9560—DJA	21450—DJS
9570—SR-1	21565—DJJ
9570—DXZ	21565—OLR7B
9610—DXB	21640—DJK

9650—DJW	21640—OLR7C
9670—OLR3B	21660—DXD
9675—DJX	21670—DXK
11740—Kattowitz	21690—DXF
11740—SP-25	21720—DXE
11745—DJF	21730—DXL
11760—OLR48	21740—DXN
11760—DXR	25850—DJT
11770—DJD	25950—DJU
11795—DJO	26450—DJV
11801—DJZ	
11840—OLR4A	

Of the above listed stations, the following were reported heard during the day at various odd times: DJB, DPD, DJL, DJC, DJQ, DXH-2, DXB, DXM, DJZ, DJA, DJW. (Kane-Pa., Horlick-Ohio, Hankins-Pa., Renfro-Tenn.)

DXC-2 on 11740 kcs. (formerly Oslo) was hooked up in synchronization with DJL from 8-8:15 a.m. for a relay to CBS in New York. (Kane-Pa.)

**Great Britain**

GRZ on 21640 kcs. was heard late on a Sunday morning with a church service. (Laudansky-Mass.)

GSA on 6050 kcs. was heard at 10:45 p.m. with "Radio Newsreel No. 171. They were also reported at 4:00 a.m. (Renfro-Tenn., Laudansky-Mass.)

GSU on 7260 kcs. was also heard during the Radio Newsreel program from 10:30-10:45 p.m. (Renfro-Tenn.)

GSW on 7260 kcs. was heard with a program of Canadian News and music on Mondays and Wednesdays from 3:45-4:15 p.m. and again from 7:30-7:45 p.m. (Worme-P. Q., Renfro-Tenn.)

Other BBC stations heard and reported were GSL on 6110 kcs., GSC on 9580 kcs., GSN on 11820 kcs., GSD on 11750 kcs., GSE on 11860 kcs., GSJ on 21530 kcs., and GSV on 17810 kcs. (Horlick-Ohio, Hankins-Pa., Stracener-La., Horlick-Ohio, Renfro-Tenn.)

**Guatemala**

TGWA on 15170 kcs. operates with 10 kw. daytime only.

TGWA on 9685 kcs. operates with the same power at night with optional use of both 11760 kcs. and 17800 kcs.

TGWB on 6480 kcs. operates with 1 kw. all day and in the evening.

TGWC on 2320 kcs. operates with 1 kw. daytime and evenings. (RX.)

TGW, TGWB, and TGWC have "The German Hour" on Mondays from 9:30-10 p.m.; "The English Hour" on Thursday at 9:30-10 p.m.; and "The Italian Hour" on Fridays from 9:30-10 p.m. (McConnell-Ohio.)

**Haiti**

HH2S verified by letter stating that they had no cards. (Stephenson-Okla.)

HH3W on 9900 kcs. has an English program on Monday afternoon from 1:45-2:05 p.m. which starts and stops with "Stars and Stripes Forever"... HH3W also broadcasts in English from 7:45-8 p.m. (Hankins-Pa., Stracener-La., Johnson-Me., Hall-Mass.)

**Honduras**

HRD on 6235 kcs. signed off at 10:20 p.m. with the English announcement and a marimba theme song. (Kane-Pa.)

HRN on 5875 kcs. "The Voice of Honduras" presents the "Hour of Honduras" every Tuesday from 9:30-10:30 p.m. This program is in English. (McConnell-Ohio.)

**Hungary**

HAT-4 on 9125 kcs. in Budapest is heard nightly on its program to the U. S. and announce as "Radio Budapest, Hungary". News in English is at 8:03 p.m. (Kane-Penna., Stracener-La.)

**India**

VUD-2 on 9590 kcs. is being widely reported with news in English at 7:30 a.m. followed by news in the native tongue at 7:35 a.m. (Stracener-La., Kane-Penna., Morse-Mass.)

**Italy**

IRF on 9830 kcs. heard during the American hour with R9 signals. (Hankins-Pa., J. Ribinski-N. Y.)

I2RO-3 on 9630 kcs. was heard at 10:20 p.m. with the American Hour directed to this country. (Renfro-Tenn.)

Tenn.)

12RO-4 on 11810 kcs. heard from 12:30 p.m. broadcasting music, and using a woman announcer. (Horlick-Ohio, Kane-Penna.)

12RO-6's program at 12:15 p.m. is directed to North America. (Horlick-Ohio.)

12RO-15 on 11760 kcs. heard at 12:15 p.m. with a man announcing the frequency. This is the earliest any Rome station has been heard here. (Renfro-Tenn.)

#### **Jamaica**

ZQI on 3470 kcs. testing at 6:40 p.m. (Welch-Mass.) ZQI at Kingston on 4750 kcs. verifies with a tan card with green print. Power is 200 watts. Dennis M. Gick, Manager, signed the card. (Stephenson-Okla.)

#### **Japan**

JLG-4 on 15105 kcs. operates from 8-10 p. m.

JLT on 6190 kcs. operates from 2-5:30 p.m.

JVW on 7257.5 kcs. operates from 2-5:30 p.m.

JVZ on 11815 kcs. (new station) operates from 4-8 a.m., 6-8 a.m., and 8-10 p.m.

JVW on 11725 kcs. operates from 8-9:30 a.m.

JZI on 9535 kcs. operates from 1:30-5:30 a.m., 10-11:55 a.m., noon to 1:30 p.m., 6-7:30 p.m., 10:30 p.m. to 1 a.m.

JZJ on 11800 kcs. operates from 1:30 a.m. to 3:30 a.m., 4-5 a.m., 5:30-6:25 a.m., 6:30-9:30 a.m., 10-11:55 a.m., noon to 1:30 p.m., 6-7:30 p.m. and 10:30 p.m. to 1 a.m. (Whole schedule RX via Stevens-Ky.)

All but JLT and JVW have been reported heard in Eastern North America by (Bennett-N. J., Arnold-Ohio, Laudansky-Mass., Werme-P. Q., Horlick-Ohio, Mills-Ont., Walker-Ky., Hankins-Pa., Johnson-Me., and Benkley-Tex.)

JLG on 7285 kcs. and JLG-2 on 9505 kcs. are used occasionally on the 2-4 p.m. program for Europe. (Kane-Pa.)

JLU-3 on 15160 kcs. heard with R8

signal from 7:20-9:30 a.m. (Stracener-La.)

#### **Madagascar**

FIQA on 10950 kcs. at Tanananrive is heard Saturdays with news in English from 2:35-3 p.m. A woman does the English announcing. (Horlick-Ohio.)

#### **Manchoukuo**

MTCY on 9545 kcs. operates from 1:30-2:20 a.m. to Europe, and from 9:30-10:30 a.m. to Dutch East Indies, and Australia.

MTCY on 11775 kcs. operates from 1:30-2:20 a.m. to Pacific Coast of U.S. and Hawaii and from 9:30-10:30 a.m. to Dutch East Indies and Australasia. (RX.)

#### **Martinique**

"Radio Martinique" on 9705 kcs. is on nightly from 5:30-9 p.m. with French songs and music. Both man off includes "La Marseilles". (Werme and lady announcers take part. Sign P. Q., Kane-Pa., Horlick-Ohio.)

#### **Mexico**

XEQQ on 9680 kcs. in Mexico City is heard daily with popular Mexican music and songs. (Werme-P. Q.)

#### **Mozambique**

CR-7AA on 6137 kcs. comes in R8 from 12:30-1 a.m. (Horlick-Ohio.)

CR-7BE on 9710 kcs. is being heard very regularly with a god signal from 2-4 p.m. with program in Portuguese. American dance tunes are often used for music on the program. (Scott-Tenn., Johnson-Me., Stevens-Ky., Borchardt-Wis., Kane-Pa.)

CR-7BE verified with a white card, green map of Africa, radio towers, and radio waves, and blue call letters. Stations now in use are: CR7BD on 15250 kcs., CR7BE on 9710 kcs., CR7AA on 6030 kcs., and CR6AB on 3490 kcs. Not in use at present are CR7BF, CR7BG, CR7BH, and CR7BI. (Laudansky-Mass.)

#### **Netherlands**

PCJ-2 on 15220 kcs. heard with program in the morning for the Dutch East Indies. PHI is also heard on announcements, but this station is not heard here. News in English at



6:50, 7:50, 9:38, and 10:30 a.m. (Kane-Pa.) "Radio Amsterdam" heard as identifying announcement on 15220 kcs., at 10:30 a.m. (Hankins-Pa.)

#### Nicaragua

YNDG on 7660 kcs. broadcasts week-days from 8:30-9:30 p.m. Station identification is given in English. Verification card is in white with red call letters and blue print. (Laudansky-Mass., Stracener-La., Borchardt-Wisc.)

#### Panama

HP5B on 6033 kcs. at a Panama City is heard in the early evening with good signals. (Laudansky-Mass.)

HP5G on 11780 kcs. is heard from 7-7:30 p.m. with news period conducted and announced by George Williams. (Arnold-Ohio.)

HP5K on 6000 kcs. heard with a program in English from 6:05-6:30 p.m. (Stracener-La.)

#### Paraguay

ZP-14 "Radio Cultura" verified with a grey card with blue print. (Laudansky-Mass.)

#### Peru

OAX4J on 9380 kcs. has a program by the Peru Automobile Club in English at 5:30 p.m. on Saturdays. (Stracener-La.)

#### Portugal

CSW-5 on 11040 kcs. causes interference to OPM around 3 p.m. (Kane-Penna.)

CSW-6 on 10990 kcs. heard from 2:30 p.m. on Sundays with a musical program. Announcements in Portuguese. (Laudansky-Mass.)

CSW-7 on 9740 kcs. is the most often heard Portuguese station, being reported with news in English at 4:00 and 4:15 p.m., and at 9 p.m. (Kane-Pa., Hankins, Pa.)

#### Salvador

YSPB on 6575 kcs. signs off at 11:58 p.m. announcing in Spanish as YSP and YSPB. Two descending gongs form identification signal before each short announcement. Before station announcement a series of 8-10 strokes of the gong are sounded. (Hankins-Pa.)

YSD verified with a lemon and blue card showing a radio tower with call across it. (Stephenson-Okla., Stracener-La.)

#### Spain

EAQ on 11680 kcs. is being heard in the afternoons until 3 p.m. with program which concludes with news in Spanish. (Kane-Pa.)

EAQ on 9855 kcs. is very erratic, being heard R9 one evening and scarcely audible the next. (Kane-Pa., Hall-Mass.)

#### Switzerland

It is no longer permissible to send pictures of the Geneva (Schwarzenburg) radio as verifications, so the chief of programs sent me instead, two pictures of Bern and the Alps as veries. Verification also mentions stations on 6165 kcs. and on 11965 kcs., previously unreported in the states. The former station operates only on week-days from 2-5:30 p.m., and the latter daily from 7-8:45 a.m. (Kane-Pa.)

#### Uruguay

CXA-6 on 9625 kcs. is all Spanish speaking. Announcements are made 8:28 p.m. and 8:59 p.m. Announce as "Servicio Oficial de Difusion Radio Electrica, CX-6 and CXA-6". (Hankins-Pa., Laudansky-Mass., Werme-P. Q.)

CXA-8 on 9640 kcs. is heard nightly with popular Latin American music. They are sometimes over-shadowed by Rome. (Werme-P. Q.)

CXA-19 on 11705 kcs. in Montevideo is known as "Radio Espectador". They verified with a nice letter stating that they also operate CX-14 and CX-18 on the broadcast band. Address: Calle Olimar 1364, Esquina 18 de Julio, Montevideo. (Laudansky-Mass.)

#### U. S. A.

KTRC hear there at midnight contacting WGEO. KTRC is on 9135 kcs. and is located at East Base, Little America. (Scott-Tenn.)

WBOS now becomes the call of the former WPIT since it has moved to Hull. (RX.)

WLWO verifies with a large folder and pictures of foreign announcers, transmitters, and studios. (Woodbury-Mass.)

W2XGB on 12862.5 kcs. of the Press Wireless was heard testing between 11:45 a.m. and 1 p.m. (McConnell, Ohio, Renfro-Tenn.)

W9XEI on 6425 kcs. at Lake Bluff, Ill., was heard contacting ships. (Laudansky-Mass.)

#### Venezuela

YV3RC on 3420 kcs. in Merida signs off at 9:35 p.m. (Benkley-Tex.)

YV5RN on 4920 kcs. operates until 11 p. m. or later from Caracas. News is broadcast at 9:30 p.m. (Benkley-Tex.)

YV5RW on 3400 kcs. in Caracas is heard operating after 10 p.m. and announcing as YV5RL and YV5RW. (Benkley-Tex.)

YV5RY on 3380 kcs. heard after 10 p.m. (Beukley-Tex.)

#### Yugoslavia

YUA on 6100 kcs. is now being used in place of YUG on the afternoon broadcast of English news at 4:25 p.m. (Kane-Pa.)

Reporters submitting to this department or to Radexing With the Radexers will please have their letters for the May-June Radex in our hands by March 25th.

#### RADEX REPORTERS

RL: Your Eastern Editor Ray La Rocque, Worcester, Mass.

RX: Official News.

R7, Pa. 1: A. M. Hankins, Latrobe, Pa.

R101: Weston Richards, Zion, Ill.

R103: Robert Bailey, Scituate Mass.

R372: Page Brent, Kansas City, Mo.

R431: Samuel Meyer, Jr., Rochester, N. Y.

R451: Chet Roman, Chicago, Ill.

R557: Roger F. Scott, Whitinsville, Mass.

R626: Bill Scott, Johnson City, Tenn.

R636: Norman L. Maguire, Stamford, Conn.

R695: Frank B. Lee, Wildwood, N. J.

R757: Mathew Leshner, Lawrence, Mass.

R786: Bob Skyten, Brookfield, Mass.

R798: John K. Higbee, Powhatan Point, O.

R841: Elwin L. Gleason, Moosic, Pa.

R881: Clarence Lee Mustoe, Brady, Mont.

R1079: Stanwood R. Morss, Bradford, Mass.

R1178: Joseph Jones, Terra Alta, W. Va.

R1201: Jim Palmer, Winnetka, Ill.

R1208: Peter C. Landry, Montreal, P. Q.

R1273: John D. Long, Dalton, Ga. (Ga. 5)

R1312: Lester Balcom, Malden, Mass.

R1319: Alton Caldwell, Brockton, Mass.

R1320: Frank Gravely, Martinsville, Ky.

R1342: Leon Grossman, Rochester, N. Y.

R1369: Julius Krupp, Chicago, Ill.

R1421: Frank Susoreny, E. Chicagi, Ind.

R1470: Jack Stephenson, Oklahoma City, Okla.

R1543: Fraser Hendrick, Port Credit, Ont.

R1557: Charles O. Peach, St. Louis, Mo.

R1566: Roy Woollacott, Rochester, N. Y.

R1643: Glenn Thormann, Westbury, N. Y.

R1667: Charles A. Mills, Strathroy, Ont.

R1691: Hal Robie, Springfield, Mass.

R1740: Connie Sideris, Oswego, N. Y.

R1757: William McMahon, Glen Cove, N. Y.

R1764: Vernon Lee Gibbs, Lexington, Ky.

R1769: Allen Cadorath, Brandon, Man.

R1773: Fred Benkeley, Jr., China Spring, Tex.

R1784: Charles Adams, Philadelphia, Penna.

R1794: Phil Gridley, Holyoke, Mass.

R1805: George Wetherill, Jr., Upper Darby, Penna.

R1806: Nat Boonin, Upper Darby, Penna.

R1807: Robert McConnell, Middletown, Ohio.

R1826: Israel Zeid, Brooklyn, N. Y.

R1834: Dawson Y. Davis, Indianapolis, Ind.

R1842: Ray Reidel, Indianapolis, Ind.

R1843: L. N. Stracener, Baton Rouge, La.

R1847: John Hall, Springfield, Mass.

R1852: Arthur Stevens, Shepherdsville, Ky.

R1856: Fred Borchardt, Milwaukee, Wisc.

R1872: Don Murphy, Milwaukee, Wisc.

R1904: Billy Cuny, Louisville, Ky.

R1911: Norman H. Kane, Jr., Drexel Hill, Penna.

R1912: Terrence Boyd, Toronto, Ont.

R1932: Leon Prague, Hartford, Conn.

R1978: Bernard F. Arnold, Akron, Ohio.

R1979: Charles Squires, New York, N. Y.

R2001: Epgene Francis, Bronx, New York.

R2001: Eugene Francis, Bronx, New York.

Lester Balcom, Malden, Mass.

Fred Bamberger, Shaker Heights, Ohio.

G. L. Banta, Downers Grove, Ill.

Harold Blinn, Arkansas City, Kans.

Clarence Burnham, Boston, Mass.

Bob and Bill Camp, Moosic, Penna.

Jose Carriazo, Havana, Cuba.

H. H. Chambers, Narragansett, R. I.

Walter Chopek, Matapan, Mass.

Peter A. Clarius, Port Richmond, N. Y.

A. N. Cole, Jr., Norfolk, Va.

Richard Crane, Waukeegan, Ill.

Dick Daneker, Lansdale, Pa.

Jim Davis, Toronto, Ont.

Roger Dissell, West Hartford, Conn.

James L. Fitzgerald, Richmond, Va.

Carl Firesieri, Bronx, N. Y.  
 Bill Gabriel, Lakewood, Ohio.  
 Bob Gilchrist, New York, N. Y.  
 John Hall, Springfield, Mass.  
 W. H. Herman, Cleveland, Ohio.  
 Malcolm Horlick, Youngstown, Ohio.  
 Bob Hetzel, Milwaukee, Wisc.  
 K. M. Imboden, Chicago, Ill.  
 Joseph Janata, Long Island, N. Y.  
 Hal Jewell, Arlington, Mass.  
 Avery L. Kempton, Harding, Mass.  
 Robert Kappelon, Newark, N. J.  
 Arthur J. Kimble, St. Louis, Mo.  
 Dick Knoth, West View, Pa.  
 W. Knouff, Columbus, Ohio.  
 Frederick Krueger, Newfield, N. Y.  
 Harst Krumrei Milwaukee Wisc.  
 Frederick Kummer Cleveland, Ohio.  
 Edward Laudansky, Dorchester, Mass.  
 Mrs. J. Matthews, Lenox, Mass.  
 Allan Maxwell, Jr., Bloomington, Ill.  
 Mae McKenzie, Indianapolis, Ind.  
 Al Meader, Manchester, N. Y.  
 Ed Medric, Brooklyn, N. Y.  
 Chas. Meyers, Chicago, Ill.  
 Lorne Mitchell, Strathroy, Ont.  
 Nils J. Nordstrom, Duluth, Minn.  
 Edward Omelian, Watersmeet, Mich.  
 Clarence Overheiser, Hastings, Nebr.  
 Phil Potter, Washington, R. I.  
 Lloyd Rees, Ridgewood, N. J.  
 Al Renfro, Johnson City, Tenn.  
 Don Renalds, Newburgh, N. Y.  
 J. Ribinski, Yonkers, N. Y.  
 Charles Ruby, Longmeadow, Mass.  
 Walter Scholtz, Webster Groves, Mo.  
 A. G. Schleiter, Rochester, Pa.  
 Fred Simonian, Lynn, Mass.  
 Joseph Slicius, So. Boston, Mass.  
 Vincent Stasen, Philadelphia, Pa.  
 Art Stevens, Louisville, Ky.  
 F. A. Strubel, Hackensack, N. J.  
 Snowden Taylor, New York, N. Y.  
 David F. Thomas, Proctorville, Ohio.  
 Charles C. Vandervoort, Laceyville, Pa.  
 LeRoy Waite, Ballston Spa, N. Y.  
 William Waldman, Asheville, N. C.  
 Frank Walker, Greenville, Ky.  
 Pat Web, San Antonio, Texas.  
 Bill Wells, Hamilton, Ont.  
 Walter E. Welch, Lynn, Mass.  
 M. F. Williams, Noroton Heights, Conn.  
 Oscar Williams, Clarion, Pa.  
 Thomas Woodbury, Hingham, Mass.

## SPECIAL NEWS

Following is a list of test programs  
 (other than the regular 2nd week  
 monitoring tests of the FCC) con-  
 ducted regularly by United States  
 stations:

### 1st Wednesday

WSAV 2:25-2:40 a.m.  
 WHUB 2:30-2:45 a.m.  
 WKAT 2:40-2:55 a.m.  
 WKPT 2:45-3:00 a.m.  
 WPAB 2:50-3:05 a.m.  
 WCOS 3:00-3:15 a.m.  
 WPRA 3:05-3:20 a.m.  
 KVIC 3:10-3:25 a.m.  
 WGBR 3:15-3:30 a.m.  
 WGAC 3:25-3:40 a.m.  
 WSPB 3:25-3:40 a.m.  
 WFTL 3:30-3:45 a.m.  
 WSKB 3:30-4:00 a.m.  
 WMGA 3:45-4:00 a.m.  
 WFTM 3:50-4:05 a.m.  
 WSAZ 4:15-4:35 a.m.

### 1st Friday

WGTC 2:30-3:00 a.m.  
 WTSP 2:00-2:30 a.m.

### 1st Tuesday

KLAH 4:30-5:00 a.m.  
 4th day of Month  
 WDLP 2:00-2:30 a.m.

### 4th Monday

WINN 3:00-3:15 a.m.  
 (WEDC is off)

### Last Saturday

WATW 2:15-2:45 a.m.

### 1st Thursday

WORD 2:30-2:45 a.m.  
 WTMC 2:35-2:50 a.m.  
 WFIG 2:40-2:55 a.m.  
 WIHO 2:45-3:00 a.m.  
 WMJM 2:50-3:05 a.m.  
 WTMA 2:55-3:10 a.m.  
 WLBj 3:00-3:30 a.m.  
 WCBI 3:00-3:15 a.m.  
 WAPO 3:05-3:20 a.m.  
 WMOG 3:10-3:25 a.m.  
 WGOV 3:25-3:40 a.m.  
 KTRI 2:200-2:30 a.m.  
 WFOR 2:00-2:30 a.m.

### 1st Saturday

KWAT 3:00-3:15 a.m.  
 WTSP 2:00-2:30 a.m.  
 WFPG 2.30-3:30 a.m.

**YOU BENEFIT FIVE WAYS  
 SEE PAGE 96**

1st Monday  
WAOV 2:00-2:30 a.m.  
KFGQ 2:30-3:00 a.m.

1st Sunday  
WESX 4:00-4:15 a.m.  
7th day of Month  
KVGB 3:00-3:30 a.m.  
KTEM 3:30-4:00 a.m.

4th Thursday  
WMAN 2:00-2:30 a.m.  
WFMJ 2:00-2:15 a.m.

#### DAILY

WOLF 1:00-2:00 a.m.  
KROC 1:00-2:00 a.m.  
WBAX 1:00-3:00 a.m.  
WDSM 1:00-2:00 a.m.  
KPHO 1:00-3:00 a.m.  
KENO 1:00-3:00 a.m.  
WPIC 4:00- ?? a.m.  
WCAR 4:00- ?? a.m.  
CMCH ?? -2:00 a.m.  
CMCX ?? -2:00 a.m.  
WHIS 5:00- ?? a.m.  
WMMN 3:30- ?? a.m.  
WSLS 6:00- ?? a.m.  
WSOO 6:00- ?? a.m.

The foregoing list is the work of Robert Kappelon of Newark, N. J., to whom we are indebted for these useful tips!

#### Old Issues Available

Nearly all issues of Radex from 1931 until 1939, are available at the new reduced price of ten cents each, sent postpaid.

Following are some 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.

This Hobby Called DXing, the International Prefixes, the QSA and R. Codes, Jan. '39.

Stations of New Zealand, April '39.

Please send us the names of friends who have shown an interest in DXing and whom you think would be interested in receiving a sample copy of RADEX. A postal card with the names and addresses on it will do. Thank you. RADEX, Emerson, N. J.

## The VAC Awards

The VAC awards of The Radex Club are "different." A series of six plaques each different, suitable to hang on the wall of the radio den, is awarded to listeners who verify all continents. But (and herein they are different from other awards), the plaques may be obtained one at a time. If you have verified only one continent, you may get a plaque for that continent. Any DXer who hears a radio station can qualify for at least one of these awards, and they are available whether you tune the broadcast band, the shortwave bands or the amateur bands. And the nominal charge of ten cents each just covers the cost of mailing them to members and returning the verifications which are submitted as required.

To get these VAC plaques, one verification from each continent is required, except that three veries from the continent on which you live are required for your own continent's plaque. Thus, members living in North America can send one verification for Europe, Asia, Africa, South America. The three veries from your own continent must be from three different countries.

#### The Continents

**NORTH AMERICA:** Includes the countries of Canada, Newfoundland, Greenland, The United States, the territory of Alaska and all the Aleutian Islands, the countries of Central America, Bermuda, all the countries of the West Indies, i.e., the Bahamas, the Greater Antilles, the Lesser Antilles, the French West Indies, the British West Indies, but not the Netherland Antilles. In the Pacific Ocean, the Cocos and Clipperton Islands are included in the continent. Through the Bering Sea to the North Pole the continental boundary follows the International Date Line.

**SOUTH AMERICA:** Includes the entire mainland, and the Netherland Antilles to the north. In the Atlantic Ocean the several islands belonging

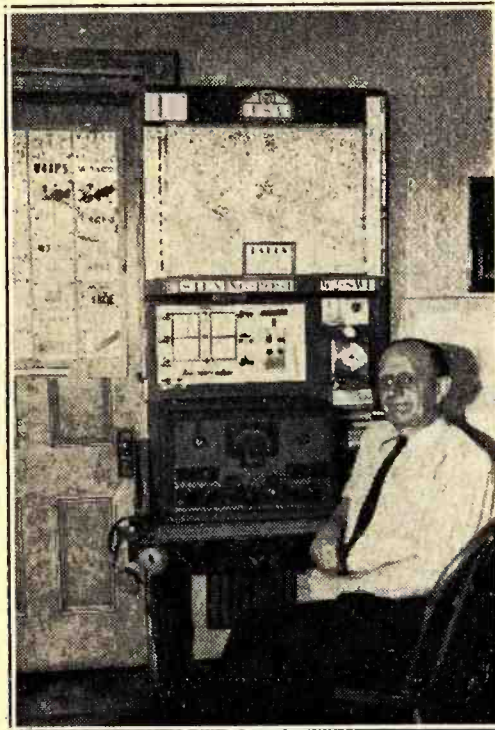
to Brazil are included, as are the Falkland Islands. In the Pacific Ocean, the Galapagos and the several islands belonging to Chile are included.

**EUROPE:** Includes, to the north, Novaya Zembla, Spitzbergen and Iceland. In the Atlantic Ocean, the Azores are included. In the Mediterranean Sea, the following islands are considered as European: Sardinia, Balearics, Corsica, Malta and Crete. The eastern boundary of Europe starts in Kara Bay, continues southward, through the Obdorsk Mountains, the Ural Mountains and the Ural River, to the Caspian Sea, then through, the Caucasus Mountains to the Black Sea.

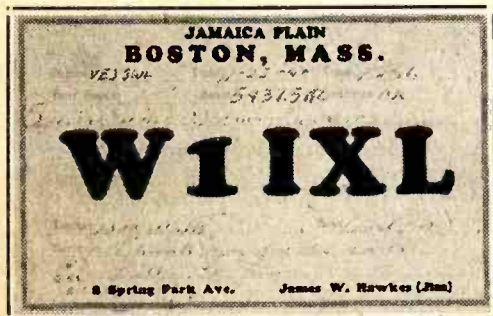
**AFRICA:** Includes none of the Mediterranean Islands. In the Atlantic Ocean, it includes the Madeiras, the Canaries, the Cape Verdes, Ascension and St. Helena. In the Indian Ocean, Madagascar, the Seychelles, Reunion, Mauritius, and Rodriguez. Africa's eastern boundary goes through the Suez Canal, the Red Sea and the Gulf of Aden.

**ASIA:** The western boundary of Asia is the same as the eastern boundaries of Europe and Africa. All the islands in the Arabian Sea are included in Asia, as well as those in the Bay of Bengal. Asia's eastern frontier includes all of Japan, the island of Taiwan and Hong Kong Island. From Taiwan the boundary passes through the South China Sea to Singapore, then through the Malacca Straits to the Bay of Bengal.

**OCEANIA:** Includes Australia and New Zealand, and the so-called Islands of the Pacific, extending as far north as the Hawaiian Islands, which are included. The Philippines and all the Netherland East Indies are considered as part of Oceania.



*Edward V. Sachleben, of Newark, N. J., is a real DX fan operating three radios. One shown above is a nine-tube Zenith Best catch on the shortwave broadcast band is Manchukuo. He considers KF6JEG as his prize for the Ham bands and also Little America.*



*Bill Wells of Hamilton, Ont., has the unique distinction of being the only listener, as far as we know, who has ever verified this amateur on 5437.5 kcs.*

# Ham Hounding

By OWEN CALLIN

The night is dark and cold, the snow heavy on the ground with a moaning wind sweeping the white granules in swirls around the winter-stricken bushes and trees.

But inside it is bright and cheery, the fire in the fireplace lighting up every corner and sending bright reflections from the dials and chrome of my SX18 HALLICRAFTER there in its nook waiting to be turned on, chock full to the "h" in the speaker with DX.

I shed my coat, grab sandwich and coffee, check the clock that says 2 a.m. and turn the switch. Twirling the dials I shoot down to the 20-meter band — to find only a dead silence.

## WHY DOESN'T THAT CURSED BAND OPEN UP?

Have you been experiencing the same thing, Radexers? The band has been unaccountably dead this winter and only in the mornings when the KA's and a few Asiatics wander in is the thrill there. Besides that, all that's left is the ten-meter band, which, thank goodness, is still at a customary winter peak.

\* \* \* \*

Admiral Byrd kindly answered our letter and said he was taking up the matter of QSL cards of the KC4 stations of Little America for SWLs with the executive committee of the expedition, of which he is a member.

He reported that the committee would have to discuss such a proposal and vote upon it. Here's hoping the answer is favorable. Are you saving your dope on KC4USA, USB and USC? If the committee agrees upon QSL cards you will need that dope for verification purposes.

\* \* \* \*

Two more hams are among the Silent Keys. Western Richards reports that a QSL request to K7HCX was answered by K7HAR. In his letter he said that 7HCX had died Sept. 30.

Fred Starr, VK4FS, was a member of the crew of an Australian bomber which disappeared off the Queensland coast last October.

\* \* \* \*

Mert Meade, the Kansas City Flash, is pulling up on Cliff Tavener, the Texas Terror, in our old-timers' contest, while George Eder jumped from fourth place up to third, passing Jack Wells.

Here are the scores to date:

Cliff Tavener	.....23,184 pts.
Mert Meade	.....22,724 pts.
George Eder	.....18,090 pts.
Jack Wells	.....17,544 pts.
Eugene Allen	..... 3,200 pts.
Weston Richards	... 2,100 pts.
Mike Unger	..... 2,054 pts.
Ralph Kastner	..... 1,035 pts.

Mike Unger is doing fine in Radex's big contest. His coupons rate him 228 points. Coupons have been received from Harry O'Meara, 21 points; Mert Meade, 18 points; Bill Scott, 6 points; Al Renfro, Jr., 3 points, and one each from Vincent Longo and Roland Burson.

Prizes in Radex's big contest, you know, consist of two fine radios—HALLICRAFTERS SKYRIDER DEFIANT RECEIVER, and PHILCO PORTABLE RECEIVER, besides good ol' cash money.

Send your reports for Ham Hounding direct to

Owen P. Callin  
61 W. California Ave.,  
Columbus, Ohio

To Al Pickering, especially—no, the contestants in our ham band contest haven't logged all those points since October. Just count up the veris you have on the ham bands and multiply that number by the number of countries represented for your score. Then through this year that the contest runs (until October, 1941) you can keep adding to your score by the veris you are receiving.

For the winner Walter Koester, manager of the Return Postage Bureau at Rutherford, N. J., has donated \$2 credit toward the purchase of foreign stamps, while both first and second winners will be honored with writeups and their pictures in Ham Hounding.

\* \* \* \*  
Three new members are hereby initiated into the Radex Club. Gang, meet White of Oakland, Cal., Dick Mertz of Akron, O., and Bob Miller of Detroit, Mich. Bob is R1939.

\* \* \* \*  
The American Radio Relay League is doing its bit for national defense. In response to the request of James L. Fly, chairman of the Defense Communications Board, the ARRL has appointed the following representative and six advisors to the Amateur Radio Committee of the Board:

Representative: George W. Bailey, ARRL president, of Weston, Mass.; regional advisors: H. L. Caveness of Raleigh, N. C.; William A. Green of Abilene, Tex.; Kenneth T. Hill of Douglaston, L. I.; N. Y.; J. L. McCargar of Oakland, Cal.; Fred H. Schnell of Chicago; and Dr. Burton T. Simpson of Buffalo, N. Y.

The purpose of the committee, which includes representatives of the FCC, Army, Navy and the NYA, is to study all phases of amateur radio facilities based on national defense requirements.

\* \* \* \*  
**QRA and QSL Department**

From L. Williams, 1823 Roscoe St., Chicago, comes a request for information in regard to one Bob White

of Herndon, Ky., located near Hopkinsville. White operated a station at Herndon year before last but whether he is there yet is not known. Williams would like to know his call and any other information concerning him.

J21B must have a new QRA since Phil Bates' card addressed to the Callbook QRA of J21B came back stamped "address unknown."

For George Eder from Phil Bates: Cards for K4GTH and K4GSG should be sent c/o F. M. McCown, Family Court, 7, Loiza Rd., Santurce, Porto Rico; K4DSE is Jose Medina-Hernandez, Box 494, Rio Piedras, P. R.; and K7HAR is F. E. White, 613 11th St., Fairbanks, Alaska.

Vernon L. Gbbs, Rte. 5, Lexington, Ky., would like to know the call letters of a station in Georgia running only 18 watts and heard R9 plus on 20 meter fone on Nov. 12 at 9:30 a.m., CST.

Joe Ribinski, 57 Oak St., Yonkers, N. Y., heard LS1TNY and RHC (or RHE) both in South America on the 20-meter fone band. "Help," he asks, "Who are they?"

Ed Laudansky wants the QRA of CO6BC.

The following have verified for Mike Unger: J5CW, KB6CBN, K6MXM, KA1CM, K4FAB, CP2AC, EA7BA, K6SRZ and K6PHD.

Foreign amateurs who QSLed for Phil Bates: CO2DR, 2RR, 2JM 2AM, 8JK, 2YW, 2BG, 2VK, 2VP, 2UT, 2LA, 8MP, K4EMG, 4FAB, 4FCG, 4FGC, HH4AS, PY2LN, 7AI, 5AQ, 2IT, XE1GE, 2HD, 3BK, K5AP, CE3AG, YV5ACG, CM2AR, K6NYD /KE6, K6PLZ, LUICA, EK1AF, OA4R and HP1A.

Al Pickering says these supposedly "Non-QSLers" verified for him: CO8JK, PY2DA, HP1A and YN1IP. Harold Schubert has veries from: HI3N, HI5X, YV1AQ, HP1A, YV4AE and also YN1IP. He says that YS1MS and KF6JEG have not verified.

Bill Adams sends his list of those who have QSLed: OA4R, LUIDA, 8AB, 1CA, CO2DR, 2RR, 2JM, 2KP, 2LA, 2VK, 2UF, 2YW, 2BG, 2JH, YV5ACG, HH4AS, CE3AG, PY2IT, 7AI, 5AQ, 2LN, XE1GE, 2HD, 3AH, EK1AF and K5AM—all for NO return postage.

\* \* \* \*

### CW Section

Mike Unger heartily agrees with a CW Section and points to his 21 stations who verified out of 27 requests since October. He thinks that since the DX is off, now is a good chance for SWLs to learn the code.

\* \* \* \*

Now for a quick look to what's on the air:

ALASKA — K7GNN, located in Chichagof, and K7GTP heard with weak signals on 20 meter fone in Philadelphia. K7CBS is on nightly around 14220. On 10 meters K7HMM is being logged despite his 10 watts.

ARGENTINA — LU4BH sends a white card with red and black letters. He uses a kilowatt and a half to a two-element beam.

CANAL ZONE—If you haven't yet logged K5AP, he's on 14150 kcs. nearly every evening between 6 and 7:30.

COLOMBIA—HK1AK is a new Colombian heard on 40-meter fone. He gave his QRA as Box 919, Baranquilla.

CUBA—CO2KP verified with the white, orange and black card of CO2MA is red, white and blue. CO8MP QSLed promptly with no postage needed. CO8JK QSLs for return postage.

EL SALVADOR—From the second op of YS10L, Herbert Lindo, we have gratefully received the following dope on the YS stations: YS stations have been suspended but should be back on the air soon. When they are on, here is where you'll find them: YS10L, 20 and 40 meters, fone and cw; YS10I, 20, 40 and 80; YS1ED, 20, 40 and 80; YS1MS, all bands; YS1RM, 20, 40 and 80; YS1AM, 20,

40 and 80; YS1KM, 20, 40 and 80; YS1JG, 20 and 40; YS1FM, 20 and 40; YS2MC, 20 fone; YS2RW, 20, 40 and 80 CW; YS3DL, 20, 40 and 80 fone.

1MS, 1RMS, 1AM, and 1KM have rotary beams; 10L, 1MS, 1KM, 1JG, and 2MC have home-made transmitters. Most of the rest have Stancor transmitters.

Herbert says they have an amateur radio club in San Salvador called "CRAS," which stands for "Club de Radio Aficionados de Salvadoreños."

Herbert's brother, Oscar, is the other op at 10L. The QRH used is 14022 on the 20-meter band and 7011 on the 40-meter.

HAWAII—The K6's are rolling in, as usual. Harry O'Meara says that K6NYD is now W4HGM at Pensacola, Fla., and that he is Bob Henry's (W9ARA) brother.

INTERNATIONAL ZONE — EK1AF has been heard on the air but the reports have it that Jose Sierra is dead and it probably was someone else at the controls.

JAMAICA — VP5PZ now is a broadcast station—ZQI. Listen for the government station at Kingston on 4700 kcs. between 5:30 and 6:30 p.m. any weekday.

JAPAN—Be careful of the address of J21B (see QRA section).

MEXICO—XE1MF said he would answer all reports if accompanied by return postage. XE1CH verified with the orange and white card of XE1BE.

MIDWAY ISLAND — W6NKL left for Midway before Christmas and since he has taken a good-sized rig with him he should be on the air shortly. KD6NKL will be heard on both fone and CW.

PHILIPPINES — A veri received from KA1HQ says that his call now is KA1AC. He uses the same transmitter as before with a three-element beam antenna instead of a rhombic.

PORTO RICO—Quite a few of the K4's are on ten meters for you beginners who haven't yet logged this country.



ST. THOMAS — KB4HBX is W6PSP, operating on this island of the Virgin group on 28725 kcs. (10-meter fone). His usual time on the air is Tuesday, Thursday, Saturday and Sunday between 9:30 a.m. and 3 p.m.

SWAN ISLAND—KD4GYM, Steve Paull, has left Swan Island but his successor is taking the exam soon so the island may still be on the air.

That's a pitiful amount of news, DXers, but considering the dead bands and the war, it can't be helped.

### *The W Section*

The response has been very favorable following the first appearance of the W Section, and reports of U. S. hams have been rolling in. Therefore, we're more than pleased this time to report that only three of the nine hams asked failed to come through with some news about themselves.

W2LZD—Ed Scatterday, Sunnyside, L. I. Ed is a broadcast engineer for WOR—has been one for several years. It seems to run in the Scatterday family, since his dad, uncle and two cousins are in the same game.

Ed is an Ohioan and his dad and uncle taught him both Morse and International codes in Bridgeport, Ohio. Born in Stubenville in the same state, he worked with his dad in the electrical contracting business. Started in Pittsburgh with the A. T. & T. and worked on network switching. Got his start in control room with WCAE in 1933. He went with WFIL in 1937 and then to WOR soon afterwards.

An RCA 810 in the final gives Ed a nice rig capable of 450 to 500 watts. Although he intends to go on 10 meters, at present he's working 160-meter fone and 80 meter CW. On the air anytime after 3 a.m.

Ed's other hobby is photography. He took over 1800 feet of color film in Mexico last summer. He is also keeping a scrapbook of the war which he expects to be valuable some day.

W3FRH—U. D. Bryant, Box 34, Stonega, Va. Dropping down into Stonega a visitor would probably find Ulysses down in the bowels of the earth digging coal. Combining hobby with work, he is experimenting with a 2½ meter rig underground to be used in connection with mine rescue work and has made quite a bit of progress along that line.

In 1920 when Ulysses was 15 he became acquainted with 3AOV, an old-timer now among the Silent Keys. He used to stay up until the wee hours of the morning listening to the "buzz saw" signals and watching the rotary spark gap. The old-timer, S. J. Gundry, taught the young fellow all he knew and finally the young fellow built his own receiver.

From 1921 until 1935 Ulysses fooled around with the different types of tubes and transmitters popular in those days and finally received his license in 1935. Lakeland, Fla., was his first DX with his 7½-watt transmitter using 45's in Class C. He then moved to Corbin and put together a ten-watt rig which contacted him with VE3AIU.

Finally moving to Stonega, Ulysses now has a Stanco 60-P transmitter available on all bands, and with a T2- and T40 in the final. He has worked 39 states, including some snappy W7's on 160-meters, where he usually is found. And he will QSL all SWLs for return postage.

W4GHO—Lewis McLeod, Salisbury, N. C. Ed was contacted 29 stations in Ohio, so he felt right at home in receiving our letter. His answer was here undoubtedly before the ink was dry in our signature. He's 23 years old and is preparing to go into the Naval Radio Reserve School.

"Shaking like a leaf," he took the exam in August, 1939, got his license in September, and in November was "adding a little QRM to the 160-meter band." "He's been broke ever since!"

A TZ40 is in the final of his present rig and a pair of 46's in the modula-

tor. Antenna is a half-wave doublet. With it Ed has contacted 2,634 stations in 13 months. Nevertheless, Ed says that he is not a DX hound, but a QSLing hound. He believes wholeheartedly in the QSL.

Ed is always glad to handle messages and if you want to hear him, tune in on the Knot Hole Net on about 1850 kcs. at 6:30 p.m., EST, on Tuesdays and Fridays. The Net boasts eight states already.

W5EHY—John Hawkins, Sallisaw, Okla. From the heart of the Indian country comes the letter from W5EHY. He is 22 years old, single, has spent four years as a motion picture operator. At present he is employed in his father's grocery business and handles Zenith radios in his district.

John became interested in amateur radio in high school about eight or nine years ago and went into the "receiver building" stage. He obtained his ticket in 1934. He will always QSL for postage and is a firm believer in the practice of QSLing.

The TZ20 and TZ40 are also used in W5EHY—the two tubes seeming to be very popular with the 160-meter phone boys. A pair of 56's drive a pair of 2A3's, which is coupled to 4-46's with Class B modulation.

Most of the ham work by W5EHY is done on 1817 kcs, although occasionally John goes to 40 and 20-meter CW. DX on the latter bands includes five continents. On 160-meter fone John has contacted 45 states, needing Utah, Delaware and Rhode Island for the list.

W7HAH — Francis D. Shepard, Kalispell, Mont. The hobby of amateur radio "just grew" on Francis, helped by friends and a flock of old radio parts that came into his possession. He is a bookkeeper in the Kalispell Laundry and is 18 years old.

The license was obtained in 1938 and he has been on since December of that year. He QSLs for postage and if the SWL is far enough away,

then he doesn't need to send postage.

Francis does not like the ham who is not a sportsman. For example, he says, one morning when the 80-meter band sounded hot (he works CW all the time), he hooked a W3, a W2 and finally a W1. Since these were new districts and the W1 a new state he asked to QSL and the W1 promised. To cut the story short Francis sent him a total of four W7HAH cards and a letter with return postage—with no results!

Hams! W7HAH needs these states for his WAS, so listen for him: Connecticut, Vermont, Maine, Maryland, Rhode Island, Delaware and New Hampshire. Frequencies used were 3585, 3694, 7084 and 7264.

W8UGF—Samuel F. Carr, Akron, Ohio. Sam saw the rig of W8LUX a little over a year ago and became interested in this radio hobby. He made up his mind to find out what made it tick. He did! He passed the exam the first crack.

Right now the rig is a 20-watter on fone and 150 on CW. A 6L6 buffer and L final is hooked to a Meissner Signal-Shifter for excitation. The antenna is a half-wave single wire and fed, 149 feet long. On CW there is a T40 in the final and the same antenna is used. Frequency on the 40 band is 7053 kcs.

On CW the total of states is 42 plus the Hawaiian Islands.

Sammy works for a power company—the Ohio Edison—and has been a substation operator for five years. That seems to be combining work with a hobby.

OTHER W NEWS—These Philadelphia hams QSL for return postage: W3IFI (20 fone and CW, 40 CW and 10 fone); W3ISN (10 fone); W3EOX (10 and 20 fone); and 3HYX, 3GVZ, 3FNA, 3GJZ, 3EVH, 3IND, 3AQM all on 10 fone.

From Massachusetts, Al Pickering says the W6's and W7's coming in good on 20 meters but that the band is going dead early. The band has been good for reception of W4's, W5's and W9's.

From Tom Smith, Jr., in Orlando, Fla.: W6NRI sends back postage, saying he doesn't feel right about taking stamps to QSL! W5HKM's card shows a picture of the Shawnee Flour Mills in color; W7HIA QSLs with a silver card with a map and call in black; W6MLG sends a Ruede del Oeste card.

These W's supposedly QSL: 1GWK, 1BMB, 2LBF, 1AW, 4EWY, 7FTV, 7GDE, 60SP, 8RNC, 8RLT, 8KUU, 8OGT, 9ZDM, 9UNI, 9BDO, 9SLS, and 9HHJ.

Bill Wells of Hamilton, Ont., has unique distinction of being the only listener—as far as we know—who has ever verified an amateur on 5437.5 kcs, the frequency used by the U. S. Army engineers.

In a letter to Bill, Jim Hawkes, the op of W1IXL, rubs it in by saying that the boys (meaning the SWLs) evidently are not policing the frequencies in the spectrum as well as they might.

He says he was on three nights a week on the army frequency (but don't lok for him now because his permission to use that frequency was up Dec. 1). His amateur call was assigned while he was doing this special work

Now he's back on the ham bands and we've missed a grand opportunity.

CHATTER—Mike Unger says to tell Cliff Tavener to move over, that the cards are rolling in by the dozens. . . . Especially to all of you and not just Al Pickering, Jr.—sure, send in the dope on the W stations. . . . Tom Smith, Jr., of Orlando, Fla., sends his

second report; he has Number R1953 in the Radex Club. . . . Phil Bates jumped from HAC to VAC since the Nov.-Dec. Radex issue; he has verified 23 of the 40 countries he has heard. . . . Bill Adams: haven't yet got my cards printed but will send one along when I do. . . . Mert Meade put up a four-element rotary beam (he's W9KXL now, you know). . . . Vernon Gibbs: we'll see what Admiral Byrd's executive committee says on the matter of veris for their Little America stations. . . . Joe Ribinski, 57 Oak St., Yonkers, N. Y., would like to hear from anyone using a Sky Buddy. . . . Mert: Thanks for your fine Xmas-O-Gram.

That's all Radexers. Get going on that contest and thanks for the many fine reports.



John Hawkins, operator of W5EHY, of Sallisaw, Okla., poses for this picture with his sister.

# The Shortwave Stations

• The shortwave list is arranged by frequencies in kilocycles, and 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.

## The Abbreviations

e—early morning, (midnight to 6 a.m. EST)

m—morning (6 am to noon, EST)

a—afternoon (noon to 6 pm EST)

n—night (6 pm to midnight EST)

D—daily

Wkdys—daily except Sunday

M thru F—Monday through Friday

Sun—Sunday

M—Monday

Tues—Tuesday

W—Wednesday

Thur—Thursday

F—Friday

Sat—Saturday

This list is intended as an easy, quick and complete reference for dial twirlers. Here's how to use it. Jot your dial setting under the kilocycle reading as you log each station. For more details and complete schedules of many of these stations see "Shortwaves in Review" if you live in the Eastern or Central Standard Time zones, or "On the West Coast" if you live in the Mountain or Pacific Standard Time zones. To use this quick reference list refer to the above abbreviations; time listings herewith are not precise. They are intended merely to give an approximate idea of the time to time for stations.

2320 TGWC Guatemala City, Guat. D-an

3400 YV5RW Caracas, Venez. D-n.

3420 YV3RC Merida, Venez. D-n.

3470 ZQI Kingston, Jamaica. D-n.

4885 HJDP Medellin, Colombia, D-n

4920 YV5RN Caracas, Venez. D-n.

5875 HRN Tegucigalpa, Honduras, Tues-n.

6005 VE9DN Montreal, P. Q. D-n.

6010 CJCX Toronto, Ont. D-man.

6010 TIJK Puntarenas, Costa Rica. D-n.

6020 DJC Berlin, Germany. D-ne.

6030 CFVP Calgary, Alta. D-n.

6033 HP5B Panama City, Pan. D-n.

6050 GSA London, Gt. Britain. D-en.

6080 CKFX Vancouver, B. C. D-an.

6090 ZNS Nassau, Bahamas. D-man.

6185 TIRCC San Jose, Costa Rica. Irreg-e.

6190 JLT Tokyo, Japan. D-a.

6190 TGQA Quezaltenango, Guatemala. Irreg-n.

6235 HRD Tegucigalpa, Honduras. D-n.

6480 TGWB Guatemala City, Guat. D-man.

6480 .... Noumea, New Caledonia. D-a.

6980 XPSA Kweiyang, China. Sun-ne; Week days-an.

7100 CLX Havana, Cuba. D-n.

7258 JWV Tokyo, Japan. D-a.

7260 GSU London, Gt. Britain. D-n.

7260 GSW London, Gt. Britain. D-n.

7285 JLG Tokyo, Japan. D-a.

7445 FG8AH Pointe-a-Pitre, Guadeloupe. D-a.

7600 KKH Kahuku, Hawaii. Sun-n.

7660 YNDG Managua, Nicaragua. Week-daysn.

8700 COCO Havana, Cuba. D-man.

9125 HAT4 Budapest, Hungary. D-n.

9135 KTRC East Base, Little America. Irreg-n.

9505 JLG2 Tokyo, Japan. D-a.

9520 TPC13 Paris, France. D-a.

9520 "Station Y", Germany. D-an.

9535 JZI Tokyo, Japan. D-eman.

9536 VPD2 Suva, Fiji. D-n.

9545 MTCY Dairen, Manchukuo. D-em.

9580 VLR Melbourne, Australia. D-e.

9590 VUD2 Delhi, India. D-m.

9610 XGOY Chungking, China. D-m.

9615 VLQ Sydney, Australia. D-ema.

9630 12RO3 Rome, Italy. D-n.

9650 VLW2 Perth, Australia. D-n.

9660 LRX Buenos Aires, Arg. D-n.

9680 VLQ5 Sydney, Australia. D-man.

9680 XEQQ Mexico City, D. F. D-n.

9685 TGWA Guatemala City, Guat. D-n.

9688 LRA1 Buenos Aires, Arg. D-an.

9692 T14NRH Heredia, Costa Rica. Tues., Thur., Sat., n.

9700 CB970 Santiago, Chile. D-n.

9705 .... Fort de France, Martinique. D-n.

9825 SVJ Athens, Greece. D-m.

9855 EAQ Madrid, Spain. D-n.

9900 HH3W Port-au-Prince, Haiti. D-an.

10140 OPM Leopoldville, Belgian Congo. D-a.

10220 PSH Rio de Janeiro, Brazil. M., Tues., F-n.

10250 LSK3 Buenos Aires, Arg. D-a.

10350 LSX Buenos Aires, Arg. Dan.

- 10540 DZD Berlin, Germany. D-an.  
 10950 FIQA Tananarive, Madagascar. Sat-a.  
 11380 .... Paramaribo, Surinam. D-a.  
 11418 XGRV Chungking, China. D-en.  
 11680 EAQ Madrid, Spain. D-a.  
 11720 CJRX Winnipeg, Man. D-n.  
 11725 JWV3 Tokyo, Japan. D-m.  
 11740 CB1174 Santiago, Chile. D-n.  
 11740 DXC2 Oslo, Norway. D-m.  
 11760 12R015 Rome, Italy. D-a.  
 11760 TGWA Guatemala City, Guat. D-n.  
 11770 DJD Berlin, Germany. D-an.  
 11775 MTCY Dairen, Manchukuo. D-em.  
 11780 .... Saigon, Fr. Indo-China. D-em.  
 11800 JZJ Tokyo, Japan. D-eman.  
 11810 12R04 Rome, Italy. D-an.  
 11815 JVZ Tokyo, Japan. D-emn.  
 11870 VLQ2 Sydney, Australia. D-a.  
 11880 VLQ7 Sydney, Australia. D-ma.  
 11920 XGRS Shanghai, China. D-m.  
 11945 CB1180 Santiago, Chile. D-n.  
 11970 .... "Radio Brazzaville", French Equatorial Africa. D-a.  
 12450 HCJB Guayaquil, Ecuador. Daily exc. Mon., n.  
 12862 W2XGB Hicksville, N. Y. Tests-ma.  
 14935 PSE Rio de Janeiro, Brazil. W., Thurs., Fri.a.  
 15101 CP43 Cotagatia, Bolivia. D-n.  
 15105 JLG4 Tokyo, Japan. D-n.  
 15160 JLU3 Tokyo, Japan. D-m.  
 15170 TGWA Guatemala City, Guat. D-a.  
 15200 DJB Berlin, Germany. D-m.  
 15200 XGOX Chungking, China. D-m.  
 17800 TGWA Guatemala City, Guat. Da.  
 17800 VLQ8 Sydney, Australia. D-ma.  
 21640 GRZ London, Gt. Britain. Sun-m.

Please send us the names of friends who have shown an interest in DXing and whom you think would be interested in receiving a sample copy of RADEX. A postal card with the names and addresses on it will do. Thank you. RADEX, Emerson, N. J.

## Radio Amateur Call Book

### LATEST EDITION

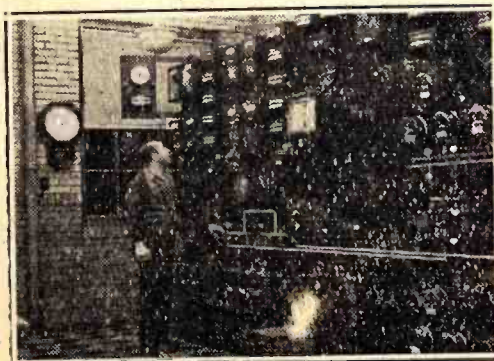
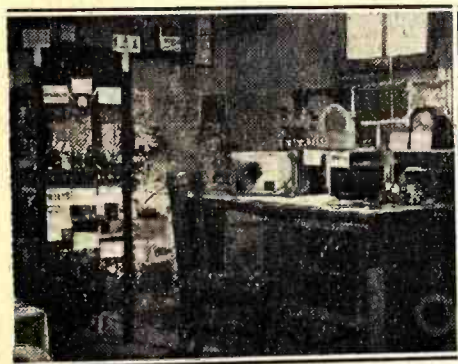
Lists over 40,000 amateurs in every country in the world, and complete lists of all the high frequency commercial stations. Every listener interested in amateur stations should have one. 292 pages.

We pay the postage.

**RADEX**  
Emerson, N. J.



**\$1.25**



Top: Francis Shepard, W7HAH, Kalispell, Mont. Center: W8UGF, Akron, Ohio. Bottom: Sam Carr, W8UGF, at work at Ohio Edison Power Co.

## That New Radio

*Continued from page 14*

to listen to distant stations.

A "regional channel" is one in which several radio stations can operate with individual station power not in excess of 5 kilowatts. A "local channel" is one in which several stations may operate with individual power not in excess of 250 watts.

The Federal Communications Commission licenses broadcast stations to operate with 100 watts to 50,000 watts of power. These are the minimum and maximum standards held by the Commission to be in the public service. "Watt" typifies radio power just as "horsepower" represents power in mechanics. The two hardly permit comparison but, roughly 746 watts are equivalent to one horsepower.

In order to provide broadcast facilities to varying population densities, the Commission licenses four general classes of broadcast stations. A Class I station, which operates on a clear channel, uses 10,000, 25,000, or 50,000 watts power to serve remote rural areas as well as a large center of population. A Class II station, which also operates on a clear channel, uses 250, 500, 1000, 5,000, 10,000 25,000 or 50,000 watts, renders secondary service over a primary service area. A Class III station, which shares a regional channel with several similar stations, uses 500, 1000 or 5000 watts, and serves a center of population and adjacent rural area consistent with interference from other stations on the same channel. A Class IV station operates on a local frequency (shared by similar stations elsewhere) and uses 100 to 250 watts for such local service.

"Primary service" area means the area in which the ground wave is not subject to objectionable interference and fading. "Secondary service" area means an area served by the skywave without objectionable interference

but subject to intermittent variations in intensity. "Intermittent service" area means the area receiving service from the ground wave beyond the primary service area and subject to some interference and fading.

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SEE PAGE 96**



H. V. Gribble, Traffic Box 42, Minneapolis, Minn. (SWL cards).

James R. L. Fitzgerald, Jr., 5324 Bloomingdale Ave., Richmond, Va. (Wishes reception reports on Richmond and Petersburg, Va. stations).

Jack Welsh, W9MZW, Kingston, Ill. (SWL Cards).

Glenn Thormann, 271 Park Ave., Westbury, N. Y. (SWL cards and correspondence).

Frank J. Kosik, 1816 Allport St., Chicago, Ill. (SWL Cards).

John B. Blass, 102 N. Jefferson St., Batavia, Ill. (Swap large stamp collection for a used communication receiver).

Wm. Akens, 1029 Spring Brook, Ave. Moosic, Pa. (SWL Cards).

Frederick Kummer, 3248 W. 48th St., Cleveland, Ohio. (Correspond with BCB DXers).

Fred R. Borchardt, 5103 N. Sherman Blvd., Milwaukee, Wis. (Correspond with DXers interested in hams).

W. H. Herman, 622½ E. 99th St., Cleveland, Ohio. (SWL Cards).

Rudolph C. Zak, 2509 E. 89th St., Cleveland, Ohio. (Trade radio parts, your choice, for auto radiator name plates and stamps of United States and Clechoslovakia).

Richard Galen, 4 Manhattan Ave., New York City. (SWL Cards).

Betty Galen, 4 Manhattan Ave., New York City. (SWL Cards).

Robert Camp, 1042 Water Street, Moosic, Pa. (SWL Cards).

E. S. Herndon, Paris, Texas. (SWL Cards).

Nicola Cannata, 1003 So. Halsted St., Chicago, Ill. (SWL Cards).

Francis Brooke, Reesville, Ohio. (Will swap SWL cards and will trade old National Geographics for old Radio Guides).

Forest L. Webb, 140 W. San Luis, Salinas, Calif. (Correspond with DXers interested in Pacific Coast, Cuban and TP stations—BCB Band).

Eldon Shipman, 621 Vine St., Fulton, Mo. (Correspond).

Steven Paul Veres, 7 Orchard St., Garfield, N. J. (SWL Cards).

Don C. Johns, 1342 Campbell Ave., Des Plaines, Ill. (SWL Cards).

J. Joseph J. Becker, 415 So. 11th St., Hamilton, Ohio. (SWL Cards).

G. R. Jewell, Jr., Box 386, San Diego, Calif. (SWL Cards).

Vincent Stasen, 5347 Priscilla St., Philadelphia, Pa. (SWL Cards).

Allan B. Cadorath, 1825 Princess Ave., Brandon, Man., Canada. (SWL Cards).

Mae McKenzie, 823 Shelby St., Indianapolis, Ind. (SWL Cards).

Don Reynolds, 9 So. Miller St., Newburgh, N. Y. (Correspond with BCB DXers).

Oscar Williams, Shady Ave., Clarion, Pa. (SWL Cards).

Joe Ribinski, 57 Oak St., Yonkers, N. Y. (Correspond with owners of Sky Buddy).

Bob Murphy, 5630 S. E. Yamhill, Portland, Ore. (SWL Cards).

Vernon Lee Gibbs, Route 5, Lexington, Ky. (SWL Cards).

Floyd Flater, 316 Campbell Ave., White Bear Lake, Minn. (SWL Cards).

## COMPLETE LIST OF "FM" STATIONS

### (Broadcasting & Experimental)

FM regular broadcasting stations, most of which are not yet in operation bear distinctive call letters, the first letter being either W or K as is customary in this country, then follows the second and third number of the frequency to which the station is assigned and lastly one or more letters designating the location of the station. Regular "FM" stations are not rated by power in watts, but rather by an area in square miles which they will be licensed to serve. Experimental stations bear ordinary experimental calls like W1XOJ—always a W or K with a ham district number, and an "X" plus one or two more letters. These stations are all licensed for three months expiring March 1, at which time licenses of some may or may not be renewed. It is the aim of the FCC to have these stations eventually apply for regular station licenses.

#### 42600 kcs.

W1XK, Hull, Mass., Westinghouse Electric, 1000 watts.

W1XSN, E. Springfield, Mass., Westinghouse Electric, 1000 watts.

W3XMC, Washington, D. C., McNary & Chambers, 1000 watts.

W8XAD, Rochester, N. Y., WHEC, Inc., 250 watts.

W9XAO, Milwaukee, Wis., The Journal Co., 1000 watts.

#### 42800 kcs.

W2XMN, Alpine, N. J., Maj. Armstrong, 40000 watts.

W9XZR, Chicago, Ill., Zenith Radio Corp., 5000 watts.

#### 43000 kcs.

W2XMN, Alpine, N. J., Armstrong, 1000 watts.

W8XVH, Columbus, Ohio, WBNS, Inc., 250 watts.

#### 43200 kcs.

W2XOR, Long Island City, N. Y., J. V. L. Hogan, 1000 watts.

W3XO, Washington, D. C., Jansky & Bailey, 1000 watts.

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W8XVB, Rochester, N. Y., Stromberg Carlson, 1000 watts.

**43500 kcs.**

W2XOR, New York, N. Y., Bamberger Brdcast. Co., 1000 watts.

**43700 kcs.**

W1XSO, Hartford, Conn., The Travelers Brdcast. Service, 1000 watts.

**43900 kcs.**

W2XWG, New York, N. Y., N.B.C., Inc., 1000 watts.

W39B, Boston, Mass., (Mt. Washington, N. H.), Yankee Network, 31000 sq. mi.

**44100 kcs.**

W1XPW, Hartford, Conn., WDRC, Inc., 1000 watts.

**44500 kcs.**

K45LA, Los Angeles, Calif., Don Lee System, Inc., 6944 sq. mi.

W45CM, Columbus, Ohio, WBNS, Inc., 12400 sq. mi.

W45D, Detroit, Mich., Eve. News Ass'n., 6820 sq. mi.

W45RG, Baton Rouge, La., Baton Rouge Brdcast. Co., 8100 sq. mi.

W45V, Evansville, Ind., Evansville On The Air, 8397 sq. mi.

**44700 kcs.**

K47SL, Salt Lake City, Utah, Radio Service Corp. of Utah, 623 sq. mi.

W47A, Albany, N. Y., (New Scotland), Capitol Brdcast. Co., 6589 sq. mi.

W47C, Chicago, Ill., WJJD, Inc., 10800 sq. m.

W47NV, Nashville, Tenn., Nat. Life & Accident Ins. Co., 16000 sq. mi.

W47P, Pittsburgh, Penna., Walker Downing Radio Corp., 8400 sq. mi.

**44800 kcs.**

W1XOJ, Paxton, Mas., Yankee Network, Inc., 50000 watts.

**44900 kcs.**

W49BN, Binghampton, N. Y., Howitt-Wood Radio Co., 6500 sq. mi.

**45100 kcs.**

W2XWG, New York, N. Y., N.B.C., Inc., 1000 watts.

W51C, Chicago, Ill., Zenith Radio Corp., 10800 sq. mi.

W51NY, New York, N.B.C., Inc., 8500 sq. mi.

**45300 kcs.**

W53H, Hartford, Conn., (Avon), The Travelers Brdcast. Co., Inc., 6100 sq. mi.

**45500 kcs.**

W55M, Milwaukee, Wis., (Richfield), The Journal Co., 8540 sq. mi.

W55NY, New York, N. Y., Wm. G. N. Finch, 8500 sq. mi.

**45700 kcs.**

W57A, Albany, N. Y., (New Scotland), General Elec. Co., 6589 sq. mi.

**45900 kcs.**

W59C, Chicago, Ill., WGN, Inc., 10800 sq. mi.

W59NY, New York, N. Y., (Brooklyn), Frequency Brdcast. Corp., 8500 sq. mi.

**46300 kcs.**

W63C, Chicago, Ill., N.B.C., Inc., 10800 sq. mi.

W63NY, New York, N. Y., (Cliffside Park, N. J.), Marcus Lowe Agency, 8500 sq. mi.

W63SY (?), Syracuse, N. Y., Central N. Y. Brdcast. Co., 6800 sq. mi.

**46500 kcs.**

W65H, Hartford, Conn., (Meriden), WDRC, Inc., 6100 sq. mi.

**46700 kcs.**

W67NY, New York, N. Y., C.B.S., Inc., 8500 sq. mi.

W67C, Chicago, Ill., C.B.S., 10800 sq. mi.

**46900 kcs.**

W69PH, Philadelphia, Penna., WCAU Brdcast. Co., .....

**47100 kcs.**

W71NY, New York, N. Y., Bamberger Brdcast. Corp., 8500 sq. mi.

**47500 kcs.**

W75NY, New York, N. Y., Metropolitan Television Corp., 8500 sq. mi.

W75P, Pittsburgh, Penna., Westinghouse Radio Stations, Inc., 8400 sq. mi.

(Cities or towns in parenthesis indicate exact transmitter location when this site differs from the primary city in the service area.)

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**YOU WILL SAVE 75 CENTS  
SEE PAGE 96**

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# The WORLD'S Radio Stations

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

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

2994	KALF	...	30	Livengood, T. A. Clifton W. Hudson.
	KALZ	T	25	Grub Creek, T. A. E. C. Kraiger.
	KANK	...	10	Point Baker, T. A. A. R. Brueger.
	KANM	...	10	Burnett Inlet, T. A. Burnett Inlet Salmon Co.
	KAQM	T	3	Bethel, T. A. Society of the United Brethren for Propagating the Gospel Among the Heathen.
	KASI	...	20	Allakaket, T. A. Samon Dubin.
	KASK	...	40	Hughes, T. A. Linius McGee.
	KILY	...	50	Excursion Inlet, T. A. Northern Radio Co., 1422 Jos. Vance Bldg., Seattle, Wash.
	WAZM	FA	40	Madison, Wis. Aeronautical Radio, Inc.
2996	CY30	FA	....	Charlie Lake, B. C. United Air Transport, Ltd.
2998	WXE	...	....	Anchorage, T. A.
3005	WAZM	FA	40	Madison, Wis. Aeronautical Radio, Inc. Ft. Jefferson Nat'l Mon., Fla. Nat'l. Park Ser- vice.
	KAQM	T	3	Tandjong Priok, Java, N.E.I.
3040	YDA	B	10000	Calgary, Alta. Dominion Gov't.
3045	VBV6	C	....	Wichita, Kans. Aeronautical Radio, Inc.
3062	KGTD	FA	....	Salt Lake City, Utah. Same as KGTD.
	KGTR	FA	....	Roberston, Mo. Same as KGTD.
	KST	FA	....	Kansas City, Mo. Same as KGTD.
	KSV	FA	....	Amarillo, Tex. Same as KGTD.
	KSV	FA	....	Albuquerque, N. Mex. Same as KGTD.
	WAEC	PA	....	Pittsburgh, Pa. Same as KGTD.
	WAEO	FA	....	Chicago, Ill. Same as KGTD.
	WHG	FA	....	Columbus, Ohio. Same as KGTD.
	WHM	FA	....	Indianapolis, Ind. Same as KGTD.
3072.5	KGUP	FA	....	Phoenix, Ariz. Aeronautical Radio, Inc.
3082	HRD	FA	14	Toncontin, Honduras. Pan American Airways
3032.5	KAAT	FA	....	Wake Island. Pan American Ways.
	KAUU	FA	....	Launch "Panair II-P." Same as KAAT.
	KABN	FA	16	Launch "Panair XI-P." Same as KAAT.
	KABO	FA	....	Launch "Panair XP." Same as KAAT.
	KABU	FA	....	Launch "Panair XP." Same as KAAT.
	KABV	FA	....	Refueling and Service Barge at Sand Island. Same as KAAT.
	KAFO	FA	....	Pearl City, Oahu, T. H. Same as KAAT.
	KAFW	FA	....	Launch "Panair VI-P." Same as KAAT.
	KANB	FA	....	Sand Island, Midway Island Group. Same as KAAT.
	KAPP	FA	....	Pago Pago, Tutuila. Same as KAAT.
	KASC	FA	....	Sumay, Guam. Same as KAAT.
	KASW	FA	20	Launch "Panair X-P." Same as KAAT.
	KAXN	FA	....	Launch "Panair XIII-P." Same as KAAT.
	KHAGH	A	50	NC-14947. Lt. Col. G. R. Hutchinson, Balti- more, Md.
	KINL	FA	....	Iuneau, T. A. Pacific Alaska Airways.
	KIOA	FA	20	Tanana, T. A. Same as KINL.
	KNBF	FA	....	Mokapu Peninsula, Oahu, T. H. Same as KAAT.
	KTIC	FA	16	Treasure Island, Calif. Same as KAAT.
	KTIS	FA	20	Seaplane Tender "Sea Gull," New York City. Same as KAAT.
	VEZ	FA	....	Burwash Landing, Y. T. Dominion Gov't.
	VOAC	FA	....	Grand Falls, Newfoundland. Nfld. Airport. Squadron Leader H. A. L. Pattison.
	WASL	FA	....	Launch "Panair III-A." Same as KAAT.
3035	KBBO	F	....	Bozeman, Mont.
	KBDG	F	....	Livingston, Mont.
3088	KGUP	...	....	Phoenix, Ariz. Aeronautical Radio, Inc.
	WSDM	FA	....	Albanv. N. Y. Same as KGUP.
3092.5	KAGI	T	50	Hood Bay, T. A. Hood Bay Canning Co.
	KAGN	T	30	Portable in Alaska. Alaska Aeronautics & Com- munications Commission.
	KAGO	T	10	Portable in Alaska. Same as KAGN.
	KAIP	C-T	....	Daly, T. A. Pacific American Fisheries, Inc.
	KAIX	T	18	Holy Cross, T. A. Catholic Society of Alaska.
	KAKL	C	....	Kasaan, T. A. Same as KAJP.
	KBNL	T	50	Iron Creek, T. A. Southwestern Herring Co.
	KEXO	T	50	Portable in Alaska. Same as KAGN.
	KEXP	T	50	Portable in Alaska. Same as KAGN.
	KGM	...	....	Ketchikan, T. A. Same as KGM.
	KIAO	...	....	Rose Inlet, T. A. Same as KGM.
	KIAP	...	....	Rose Inlet, T. A. Same as KGM.
	KIAV	...	....	Port Althrop, T. A. Same as KGM.

	KIAW		...	....	Port Althrop, T. A. Same as KGM.
	KIAX		...	....	Ketchikan, T. A. Sames KGM.
	KIAY		...	....	Ketchikan, T. A. Sames KGM.
	KIAZ		...	....	Kake, T. A. Same as KGM.
	KIBA		...	....	Kake, T. A. Same as KGM.
	KIBI	C-T	...	....	Daly, T. A. Same as KAJP.
	KIIP	T	...	30	Luckyshot, T. A. Jack M. Karteman.
	KIJH	C	...	....	Squaw Harbor, T. A. Same as KAJP.
	KIOH	T	...	....	Iron Creek, T. A. Same as KBNL.
	KIU	CH	...	50	Iron Creek, T. A. Same as KBNL.
	KKAA	T	...	25	Seattle, Wash. Yellow Band Gold Mines, Inc.
	KKAB	T	...	25	Seattle, Wash. Yellow Band Gold Mines, Inc.
	KLB	...	....	....	Port Althrop, T. A. Same as KGM.
	KLC	...	....	....	Kake, T. A. Same as KGM.
	KLE	...	....	....	Rose Inlet, T. A. Same as KGM.
	KLY	CH	...	....	Uganik Bay, T. A. San Juan Fishing & Packing Co., Seattle, Wash.
					Warren, T. A. Pacific American Fisheries, Inc.
3093	KAJO	...	....	....	Squaw Harbor, T. A. Same as KAJO.
	KALG	...	....	....	Port Moller, T. A. Same as KAJO.
	KALH	...	100	....	Lazy Bay, T. A. Same as KAJO.
	KALH	...	100	....	King Cove, T. A. Same as KAJO.
	KALJ	...	....	....	Stuysbok, T. A. Vance Hitt.
	KAMG	...	....	20	Kalskag, T. A. Fred H. Whitcher.
	KANR	...	....	20	Mountain Village, T. A. Norval Douglas
	KAQL	...	....	25	Shepard.
3095	KBAE	F	....	....	Seward, T. A. (In Chugach Forest). U. S. Dept. of Agriculture, Forest Service.
	KBAF	KBAG, KBAH,	...	....	Same as Above.
	KBCC	F	....	....	Mt. Shasta, Calif.
	GBCM	F	....	....	Salmon, Idaho. (Salmon Forest).
	KBCN	F	....	....	Salmon, Idaho. (Salmon Forest).
	KBDD	F	....	....	Elko, Nev. (Humboldt Forest).
	KBDE	F	....	....	Elko, Nev. (Humboldt Forest).
	KBEN	F	....	....	Seward, Alaska.
	KBEZ	F	....	....	Mt. Shasta, Calif.
	KBFH	F	....	....	Leavenworth, Wash.
	WWLL	F	....	....	Duluth, Minn. (Superior Forest).
	WWLM	F	....	....	Escanaba, Mich. (Upper Mich. Forest).
3105					Allocated as an aircraft calling and working frequency for use by non-scheduled aircraft in the Western Hemisphere only. Only airplanes which are believed to be of interest to DXers are listed on these airplane frequencies.
	KHAGH	A	50	....	NC-14947. Lt. Col. G. R. Hutchinson, Baltimore, Md
3120	KHCIY	A	100	....	NC-18997. American Export Airlines.
3147.5	KHCY	A	100	....	NC-18997. American Export Airlines.
3148	KRBD	...	400	....	Red Bluff, Calif. Aeronautical Radio, Inc.
	KEU	FA	....	....	Burbank, Calif. Aeronautical Radio, Inc.
	KFM	FA	....	....	Sacramento, Calif. Same as KEU.
	KFO	FA	....	....	Okaland, Calif. Same as KEU.
	KGE	FA	....	....	Medford, Ore. Same as KEU.
	KGOZ	FA	....	....	San Diego, Calif. Same as KEU.
	KGT	FA	....	....	Fresno, Calif. Same as KEU.
	KGTZ	FA	....	....	Spokane, Wash. Same as KEU.
	KIIE	FA	....	....	Pendelton, Ore. Same as KEU.
	KIE	FA	....	....	Reno, Nev. Same as KEU.
3155	KKO	FA	....	....	Elko, Nev. Same as KEU.
	KBAL	F	100	....	Mineral Wash. (Snoqualmie oForest).
	KBAP	F	....	....	North Bend, Wash. (Snoqualmie Forest).
	KBBL	F	....	....	Coolin, Idaho.
	KBBM	F	....	....	Sandopint, Idaho. (Kaniksu Forest).
	KBBN	F	....	....	Sandopint, Idaho. (Kaniksu Forest).
	KBBR	F	....	....	Ione, Wash. (Kaniksu Forest).
	KBBW	F	....	....	Libby, Mont. (Kootenai Forest).
	KBCT	F	....	....	Custer, S. Dak. (Harney Forest).
	KBCW	F	....	....	Thompson Falls, Mont. (Kootenai Forest).
	KBCY	F	....	....	Troy, oMnt. (Kootenai, Forest).
	KBDV	F	....	....	Deadwood, S. Dak.
	WWKZ	F	....	....	Rhinelande. Wis. (Nicplet Forest).
	WWLS	F	....	....	Forest, Miss. (Mississippi Forest).
	WOA	F	....	....	Jackson, Miss.
3158	YDE4	D	....	....	Sourahava, Java. N. E. I.
3162.5	KRRD	...	400	....	Red Bluff Calif. Aeronautical Radio, Inc.
3172.5	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.



	KNJN	G	....	Mt. McKinley Nat'l. Park, Alaska.	Same as KNJN.
	WSEH	G	....	Houghton, Mich. (Isle Royal N. P.)	Same as KNJN.
	WSEI	G	....	Mott Island, Mich. (Isle Royal N. P.)	Same as KNJN.
3265	KAKR	...	....	Candle, T. A. Candle Community Radio Ass'n.	
	KALY	C	25	Egavik, T. A. R. B. Julian.	
	KBBE	F	....	Grangeville, Idaho. (Nezperce Forest).	
	KBBF	F	....	Orofino, Idaho. (Clearwater Forest).	
	KBBH	F	....	Orofino, Idaho. (Clearwater Forest).	
	KBBI	F	....	Pierce, Idaho. (Clearwater Forest).	
	KBBJJ	F	....	Orofino, Idaho. (Clearwater Forest).	
	KBBU	F	....	Elk City, Idaho. (Nezperce Forest).	
	KBCU	F	....	Grangeville, Idaho. (Nezperce Forest).	
	KBDP	F	....	Descanso, Calif. (Cleveland Forest).	
	KBDT	F	....	Cascade Locks, Ore. (Mt. Hood Forest).	
	KBFC	F	....	Nevada City, Calif.	
	KIBZ	T	....	Waterfall, T. A. Nakat Packing Corp.	
	KILQ	...	100	Skowl Arm, T. A. Dep Sea Salmon Co.	
	KLA	...	....	Waterfall, T. A. Same as KIBZ.	
3270	WWLY	F	....	Villalba, Puerto Rico.	
3280	CZ7N	FA	....	Cache Bay, P. O. Canadian Airways, Ltd.	
	CIA	T	....	Barriefield, Ont. Dept. of Nat'l. Defense, Dominion Gov't.	
	CIPS	C	....	Calgary, Alta. Same as CIA.	
3295	VEW	C	....	Calgary, Alta. Same as CIA.	
3300	WWLX	F	....	Luquillo, Puerto Rico.	
	CY3J	T	....	Anyox, B. C. Consolidated Mining & Smelting Co.	
	CZ5Y	C-T	....	Anyox, B. C. Same as CY3J.	
	CZ7H	T	....	Cedar Creek, B. C. Same as CY3J.	
3320	YDH4	B	30	Bandoeng, Java, N. E. J.	
3322.5	KRBD	FA	400	Red Bluff, Calif. Aeronautical Radio, Inc.	
3350	K7XFQ	SE	150	Anchorage, T. A. Alaska Aeronautical & Communication Commission.	
	K7XFR	SE	150	Ketchikan, T. A. Same as above.	
	K7XFS	SE	150	Ketchikan, T. A. Same as above.	
	K7XFU	SE	150	Juneau, T. A. Same as above.	
	K7XGG	SE	150	Cordova, T. A. Same as above.	
	K7XGH	SE	150	Gravina Island, T. A. Same as above.	
	K7XGI	SE	150	Ralston, T. A. Same as above.	
3372.5	WAQE	FA	....	So. Washington, Va. Aeronautical Radio, Inc.	
	WAQS	FA	....	Grand Rapids, Mich. Same as WAQE.	
	WAQU	FA	....	Detroit, Mich. Same as WAQE.	
	WAQV	FA	....	Milwaukee, Wis. Same as WAQE.	
	WAQW	FA	....	Pittsburgh, Pa. Same as WAQE.	
	WARC	FA	....	Chicago, Ill. Same as WAQE.	
	WAUA	FA	....	Norfolk, Va. Same as WAQE.	
	WBSC	FA	....	Saginaw, Mich. Same as WAQE.	
	WBSS	FA	....	Sault Ste. Marie, Mich. Same as WAQE.	
	WBTC	FA	....	Traverse City, Mich. Same as WAQE.	
	WPAL	FA	....	Cleveland, Ohio. Same as WAQE.	
	WPXB	FA	....	Buffalo, N. Y. Same as WAQE.	
	WPXH	FA	....	New Cumberland, Pa. Same as WAQE.	
	WPXL	FA	....	Lansing, Mich. Same as WAQE.	
	WPXM	FA	....	Muskegon, Mich. Same as WAQE.	
	WPXW	FA	....	Williamsport, Pa. Same as WAQE.	
	WPYA	FA	....	Flint, Mich. Same as WAQE.	
	WPYB	FA	....	Baltimore, Md. Same as WAQE.	
3386	KBAA	F	....	Portland, Ore. (Radio Laboratory). U. S. Dept. of Agriculture, Forest Service.	
	KBCG	F	....	Yreka, Calif. (Klamath Forest). Same as KBAA.	
3400	K7XFQ	SE	150	Anchorage, T. A. Alaska Aeronautical and Communications Commission.	
	K7XFR	SE	150	Ketchikan, T. A. Same as above.	
	K7XFS	SE	150	Ketchikan, T. A. Same as above.	
	K7XFU	SE	150	Juneau, T. A. Same as above.	
	K7XGG	SE	150	Cordova, T. A. Same as above.	
	K7XGH	SE	150	Gravina Island, T. A. Same as above.	
	K7XGI	SE	150	Ralston, T. A. Same as above.	
	YV5RW	B	....	Caracas, Venezuela. "Radio Turmieto," Cesar Banuls.	
3410	KCBO	LH	50	Tillamock Rock Light, Ore. U. S. Lighthouse Service.	
	KNKG	F	....	Ash Mt., Sequoia Nat'l. Park, Calif.	
	KNLP	F	....	Death Valley, Calif.	
				Portland, Maine	

	WPB	F	....	Poe Reef, Mich.
	WRI	LH	....	Catlingsburg, Tenn. Great Smoky Nat'l. Park.
	WSEO	G	....	Dry Tortugas, Fla.
	WST	LH	....	Maniton Island, Mich.
	WWAL	LH	....	Passage Island, Mich.
	WWAM	LH	....	Rock of Ages, Mich.
	WWG	LH	....	Cheboygan, Mich.
	WWHJ	LH	....	Tender "Lyric."
	WWM	LH	....	Marquette, Mich.
	WWXC	LH	....	Lighthouse Ship "Canal."
	WZ	LH	....	Key West, Fla.
4637½	KAMB	SEM	50	General Grant N. P., Calif. U. S. Nat'l. Park Serv., Dept. of Interior.
	KNJP	G	....	Grand Teton N. P., Wyo. Same as KNJO.
	KNJO	G	....	Sequoia Nat'l. Park, Calif. Same as KNJO.
	KNJJR	G	....	Death Valley Nat'l. Mon., Calif. Same as KNJO.
	KNJS	G	....	Mt. Rainier N. P., Wash. Same as KNJO.
	KNTU	G	....	Olympic N. P., Wash. Same as KNJO.
	WSEF	G	....	Great Smoky Mts. N. P. Same as KNJO.
3420	WWCR	LH	....	Cape Henry Lighthouse.
	WWDP	LH	....	Hender "Hollyhock."
3427.5	KBEX	F	....	Del Rosa, Calif.
	KBFB	F	....	San Bernardino, Calif.
3430	CY2Q	SP	....	Atlin, B. C., B. C. Provincial Police.
	CY4A	FA	....	Bousquet, P. Q. General Airways, Ltd.
	CY6S	F	....	Baldy Mt., B. C. Minister of Lands for B. C.
	CZC	SP	....	Bralorne, B. C. Same as CY2Q.
	CZ4B	F	....	Armstrong, Ont. Ont. Dept. of Lands and Forests.
	CZ5C	F	....	Basswood, Ont. Same as CZ4B.
3432.5	CZ7A	SP	....	Alert Bay, B. C. Same as CY2Q.
	KGTF	FA	....	Fort Worth, Texas. Aeronautical Radio, Inc.
	KGUA	FA	....	El Paso, Texas. Same as KGTF.
	KGUG	FA	....	Big Spring, Texas. Same as KGTF.
	KGUL	FA	....	Abilene, Texas. Same as KGTF.
	KGUN	FA	....	Douglas, Ariz. Same as KGTF.
	KGUR	FA	....	Glendale, Calif. Same as KGTF.
	WAEL	FA	....	Detroit, Mich. Same as KGTF.
	WAEP	FA	....	Portable. Same as KGTF.
	WAES	FA	....	Syracuse, N. Y. Same as KGTF.
	WAET	FA	....	E. Hartford, Conn. Same as KGTF.
	WAEV	FA	....	Knoxville, Tenn. Same as KGTF.
	WAPD	FA	....	Chicago, Ill. Same as KGTF.
	WAOG	FA	....	Camden, N. J. Same as KGTF.
	WARO	FA	....	Portable. Same as KGTF.
	WAWB	FA	....	Bristol, Tenn. Same as KGTF.
	WMER	FA	....	Portable. Same as KGTF.
	WNEG	FA	....	Charleston, W. V. Same as KGTF.
	WNEH	FA	....	So. Washington, Va. Same as KGTF.
	WSDG	FA	....	Chicago, Ill. Same as KGTF.
	WSDI	FA	....	Cincinnati, Ohio. Same as KGTF.
	WSDI	FA	50	Elkins, W. V. Same as KGTF.
	WSDM	FA	....	Albany, N. Y. Same as KGTF.
	WSDO	FA	....	Buffalo, N. Y.
	WSDP	FA	....	Port Columbus, Ohio. Same as KGTF.
	WSDO	FA	....	Berea, Ohio. Same as KGTF.
	WSDZ	FA	....	Indianapolis, Ind. Same as KGTF.
3450	RU4	B	....	Indianapolis, Ind.
	YV6RC	B	....	Barcelona, Venez. Gobierno Edo. Anzoategui
3480	YV3RF	B	....	Acarigua, Venez. "La Voz del Llano," Pausides Sigala.
	2ZB	B	200	Wellington, New Zealand.
3488	XZZ	B	50	Rangoon, Burma.
3490	CR7AB	B	....	Lourenco Marques, Mozambique.
3492.5	K6XAK	GE	1500	Kaena Point, Oahu. T. H. Globe Wireles.
	W4XID	E1	50	W. Palm Beach, Fla. Gray Radio Co.
	W6XCS	GE	50	San Francisco, Calif. Garlynn Eng. Co.
	W6XOW	GE	1000	Palo Alto, Calif. Stamford University.
	W6XXT	GE	5000	Portable. Press Wireless, Ltd.
	W7XBA	E	15	Portable. Northern Radio Co.
	W7XEY	E1	60	Seattle, Wash. Radio Labs., Inc.
	W7XEZ	E1	60	Seattle, Wash. Radio Labs., Inc.
	W8XUK	GE	10	Portable. W. Va. Univ. Dept. of Physics.
	W8XUL	GE	25	Portable. Same as W8XUK.
	W10XII	....	15	Portable. Harvey Radio Labs., Inc.
	W10XJP	....	15	Portable. in Asia. Trans-Asia, Inc., Lawrence
	W10XIO	....	15	Thaw Expedition.
	W10XJR	....	15	Portable in Asia. Same as W10XIP.

3497	W10XJS CLX	... ...	.... 250	Portable in Asia. Same as W10XJP. Portable in Asia. Same as W10XJP. Havana, Cuba. Observatorio Nacional, Casa Blanca. 3500 to 4000 kcs.
3500	YV5RV	B	....	Amateurs
3732	TGB	FA	....	La Guaira, Venez. "Emisora Vargas," Gonzalo Veloz Mancera. Aviacion Nacional, Pais de la Aurora, Guatemala.
3750	CS2ZU	B	80	Ponta Delgada, Azores. Deodata Emilio Soares
4002	PWH	...	....	Abrolhos, Brazil.
4030	CT2AJ VK8SC	B SEM	.... ....	Ponta Delgada, Azores. Port Hedland, Australia. Australian Airways Medical Service.
4055	K7XFQ	SE	150	Anchorage, T. A. Alaska Aeronautical and Communications Commission.
	K7XFR	SE	150	Ketchikan, T. A. Same as above.
	K7XFS	SE	150	Ketchikan, T. A. Same as above.
	K7XFU	SE	150	Juneau, T. A. Same as above.
	K7XGG	SE	150	Cordova, T. A. Same as above.
	K7XGH	GE	150	Gravina Island, T. A. Same as above.
	K7XGI	SE	150	Ralston, T. A. Same as above.
4065	K7XFU	...	....	Juneau, T. A. Alaska Aeronautical and Communications Commission.
4098	WND	T	400	Hialeah, Fla. American Tel. & Teleg. Co., 32 Sixth Ave., New York City.
4107	HCJB2	B	1000	Quito, Ecuador.
4122.5	KBLC	FA	50	Corpus Christi, Texas. Aeronautical Radio.
	KBRN	FA	3000	Brownsville, Texas. Same as KBLC.
	KHAGH	A	30	NC-14947. Lt. Co. G. R. Hutchinson, Baltimore, Md.
	WAHY	FA	1000	Memphis, Tenn. Same as KBLC.
	WAHZ	FA	50	Birmingham, Ala. Same as KBLC.
	WARS	FA	50	Memphis, Tenn. Same as KBLC.
	WEEL	FA	50	Muscle Shoals, Ala. Same as KBLC.
	WGSA	FA	50	Beaumont, Texas. Same as KBLC.
	WPAE	FA	50	Greenville, S. C. Same as KBLC.
	WSIM	FA	400	Philadelphia, Pa. Same as KBLC.
4125	KIQA	FA	20	Tampa, Fla. Same as KBLC.
4130	VK8SK	SEM	....	Tanana, T. A. Pacific Alaska Airways, Inc.
4135	KBAY	F	....	Broken Hill, NSW, Australia. Australian Airways Medical Service.
4140	KHCIY	A	100	Milford, Utah.
4178	WOO	T	20000	NC-18997. American Export Airlines. Ocean Gate, N. J. American Tel. & Teleg. Co., Long Lines Dept., 32 Sixth Ave., New York City.
	WOY	C	....	Lawrenceville, N. J. Same as WOO.
4200	CP2ANA	C	....	Sipiapo, Bolivia.
4253	WKP	C	....	Lawrenceville, N. J. American Tel. & Tel. Co., Long Lines Dept., 32-6th Ave., New York City.
4273	RV15	B	200000	Khabarovsk, U. S. S. R.
4280	KMI	C	....	Dixon, Calif. Transpacific Communications Co., Ltd., 140 Montgomery St., San Francisco.
4282.5	WAD	CHT	....	Pt. Washington, Wis. Lorain County Radio Corp.
	WAS	CHT	....	Duluth, Minn. Same as WAD.
	WAY	...	....	Lake Bluff, Ill. Thorne Donneeey.
	WCY	CHT	400	West Dover, Ohio (600 w. days). Radiomarine Corp.
	WMI	CHT	....	Lorain, Ohio. Same as WAD.
4287	WOM	T	....	Hialeah, Fla. American Tel. & Teleg. Co.
4290	COY	G	....	Havana, Cuba. Press — Cultural Dept., Cuban Army.
4295	WTDV	...	250	Charlotte Amalie, Virgin Islands.
	WTDW	...	250	St. Croix, Virgin Islands.
	WTDX	...	250	St. John, Virgin Islands.
4300	4ZB	B	30	Dunedin, New Zealand.
4320	GOB	T	....	Rugby, Gt. Britain. GPO, Armour House, St. Martin's Le Grand, London ECI.
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	....	Barriefield, 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.
4356	CY5D	C	....	Montreal, P. Q. Dominion Skyways, Ltd.
	VFN	FA	....	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	....	Vlacha, Bolivia.
4415	ZMBJ	S	300	T.S.S. "Awatea," Union Steam Ship Co. of New Zealand, Ltd.
4422 1/2	W10XKG	E2	75	Tow Boat "Alex Mackensie," 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	....	Barriefield, Ont. Dept. of Nat'l. Defense, Dominion Gov't.
	CIPR	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.
	CZ1P	T	....	Claydon Bay, B. C. North-West Telephone Co.
4510	CY2L	T	....	Baie Comeau, P. Q. Ont. Paper Co., Ltd.
	CY20	T	....	Chutes aux Outardes, P. Q. Ont. Paper Co.
	CY3E	T	....	Clarke City, P. Q. Gulf Pulp & Paper Co.
4512	ZFS	T	....	Nassau, Bahamas. Sup't. of Telegraphs, Central Bay St.
4550	WDN	C	....	Rocky Point, N. Y. RCA Frequency Bureau, 30 Rockefeller Plaza, N.Y.C.
4560	CPO4	C	....	LaPaz, Bolivia.
4600	HIC2ET	R	....	Guayaquil, Ecuador.
4610	KBAI	F	....	Ketchikan, T. A. U. S. Department of Agriculture, Forest Service.
	KBEO	F	....	Juneau, T. A. Same as KBAI.
	KBEP	F	....	Juneau, T. A. Same as KBAI.
	KBEM	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.
	KYZD	G	....	Chula Vista, Calif. Same as KYZA.
	KYZC	G	....	Del Rio, Texas. Same as KYZA.
	KYZF	G	....	El Centro, Calif. Same as KYZA.
	KYZE	G	....	Alpine, Texas. Same as KYZA.
	KYZC	G	....	Tucson, Ariz. Same as KYZA.
	KYZK	G	....	McAllen, Texas. Same as KYZA.
	KYZL	G	....	Laredo, Texas. Same as KYZA.
	KYZM	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 KYZA.
	WWMO	G	....	Ogdensburg, N. Y. Same as KYZA.
	WWMP	G	....	Rouses Point, N. Y. Same as KYZA.
3515	KNIO	G	....	Alhambra, Calif. Southern Calif. Edison Co.
	KODZ	SFM	50	Anaheim, Calif. Same as KAMB.
4650	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.
4707	HRT	C	200	Candle, T. A. Same as KFRA.
	KFRD	FA	100	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.
	KGIP	FA	....	Phoenix, Ariz. Same as KGTF.
	KGIR	FA	....	Glendale, Calif. Same as KGTF.
	KGIT	FA	....	Robertson, 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 as 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.
	WSDK	FA	....	Cincinnati, Ohio.	Same as KGTF.
	WSDP	FA	....	Memphis, Tenn.	Same as KGTF.
4740	WSDQ	FA	....	Port Columbus, Ohio.	Same as KGTF.
	KBRN	FA	3000	Berea, Ohio.	Same as KGTF.
	WAHY	FA	1000	Brownsville, Tex.	Aeronautical Radio, Inc.
	WSDI	FA	....	Memphis, Tenn.	Same as KBRN.
	WOET	FA	1000	Charlotte, N. C.	Same as KBRN.
4742 1/2	WSJM	FA	400	Tampa, Fla.	Same as KBRN.
	KBLC	FA	50	Corpus Christi, Tex.	Aeronautical Radio, Inc.
	KBRN	FA	3000	Brownsville, Tex.	Same as KBLC.
	WAHY	FA	1000	Memphis, Tenn.	Same as KYBC.
	WARS	FA	50	Muscle Shoals, Ala.	Same as KBLC.
	WEEG	FA	....	Greensboro, N. C.	Same as KBLC.
	WEEJ	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.
	WGSA	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.
4745	WSJM	FA	400	Tampa, Fla.	Same as KBLC.
	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.
4753	WSJM	FA	400	Tampa, Fla.	Same as KBRN.
4755	WOO	T	20000	Ocean Gate, N. J.	
4770	CY4A	FA	....	Bousquet, P. Q.	General Airways, Ltd.
	CY6E	FA	....	Beavertail Lake, Man.	Arrow Airways, Ltd.
4775	YV1RT	B	....	Maracaibo, Venezuela.	
	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.
	CZ5C	F	....	Basswood, Ont.	Same as CZ4B.
	CZ7A	P	....	Alert Bay, B. C.	Same as CY2Q.
4780	H17GAB	R	750	Bucaramanga, Colombia.	
4785	YV1RO	R	....	Triujillo, Venezuela.	
	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.
4790	H11ABB	B	600	Barranquilla, Colombia.	
4795	YV5RY	B	....	Caracas, Venezuela.	
	H13CAF	B	750	Bogota, Colombia.	
	H16FAI	B	501	Ibague, Colombia.	
4797 1/2	KHRH	RB	100	NC-19904.	Howard R. Hughes, N. Y. C.
	KSFM	RB	....	New York City.	NBC, Inc., 30 Rockefeller Plaza.
	K6XAK	GE	1500	Kaena Point, Oahu.	T. H. Globes 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.	Gairlynn Eng. Co.
	W6XXT	GE	5000	Portable.	Press Wireless, Ltd.
	W6XOW	GE	1000	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. V. Univ. Dept. of Physies.
	WEXUL	GE	10	Portable.	Same as W8XUK.
	W9XAM	Time	....	Elgin, Ill.	Time signals.
4800	W10XTJ	GE	25	Portable.	Harvey Radio Labs., Inc.
	WCBN	RB	....	New York City.	CBS, Inc., 485 Madison Ave.
4805	YV1RV	B	....	Maracaibo, Venezuela.	
4810	H16FAB	B	501	Manizales, Colombia.	
	CYC	T	....	Amos, P. Q.	Canadian Nat'l. Railway,
	YDE2	B	100	Solo, Java, N.E.I.	NIROM.
4815	YV-RU	R	....	Maracaibo, Venezuela.	
4820	H12BAB	B	600	Cucuta, Colombia.	
	GDW	T	....	Rugby, Gt. Britain	G.P.O., Armour House, St. Martin's Le Grand, London ECI.
	YV3RN	B	....	Barquisimeto, Venezuela.	
4825	CY6P	FA	....	Channing, Man.	Wings, Ltd.
	CZ3B	FA	....	Berens River, Man.	Wings, Ltd.
	H15EAD	B	720	Calif. Colombia.	
4830	YV5RH	B	....	Caracas, Venezuela.	
4835	H11ABE	B	525	Cartagena, Colombia.	
4840	CY2L	T	....	Baie Comeau, P. Q.	Ont. Paper Co., Ltd.
	CY2O	T	....	Chutes aux Outardes, P. Q.	Same as CY2L.
	CY2T	F	....	Berens River, Man.	Man. Dept. of Mines & Resources.
	CY3E	T	....	Clarne City, P. Q.	Gulf Pulp & Paper Co.
	VUC2	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. Q. Dominion Skyways, Ltd.
	CZ5L	FA	....	Mud Lake, Ont. Same as CZ5K.
	CZ5M	FA	....	Rouyn, P. Q. Same as CZ5K.
	CZ9U	FA	....	St. Felicien, P. Q. Same as CZ5K.
	TGY	C	....	Guatemala City, Guat.
	VOWM	FA	....	Northwest River, Dabrador. Newfoundland Skyways, Ltd.
	YV1RL	B	300	Maracaibo, Venezuela.
4365	HJ2BAJ	B	751	Santa Marta, Colombia.
	VDO	T	400	Vancouver, B. C. North-West Telephone Co., 768 Seymour St.
4870	CIA	T	....	Barrietfield, Ont. Dept. of Nat'l. Defense, Dominion Gov't.
	VSW	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. Q. 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.
	YV-RX	B	....	Maracaibo, Venezuela.
4895	HJ3C-H	B	720	Bogota, Colombia.
4900	YV6RT	B	....	Giudad Bolivar, Venezuela.
4910	YV-RY	B	....	Coro, Venezuela.
4917 1/2	WAZM	FA	40	Madison, Wis. Aeronautical Radio, Inc.
4920	VUM2	B	1000	Madras, India.
	YV4RP	B	....	Caracas, Venezuela.
4930	YV4RP	B	....	Valencia, Venezuela.
4837 1/2	KGUP	FA	....	Phoenix, Ariz. Aeronautical Radio, Inc.
	WSDM	FA	....	Albany, N. Y. Same as KGUP.
4940	YV5RO	B	....	Caracas, Venezuela.
4947 1/2	KGUP	FA	....	Phoenix, Ariz. Aeronautical Radio, Inc.
	WSDM	FA	....	Albany, N. Y. Same as KGUP.
4950	YV4RO	B	....	Valencia, Venezuela.
4952 1/2	KGUP	FA	....	Phoenix, Ariz. Aeronautical Radio, Inc.
	WSDM	FA	....	Albany, N. Y. Same as KGUP.
4960	VUD2	B	10000	Delhi, India.
	YV5RS	B	....	Caracas, Venezuela.
4967 1/2	KGUP	FA	....	Phoenix, Ariz. Aeronautical Radio, Inc.
	KHAGH	A	50	NC-14947. Lt. Col. G. H. Hutchinson, Baltimore, Md.
	WSDM	FA	....	Albany, N. Y. Same as KGUP.
4975	GBC	T	5000	Rugby, Gt. Britain.
	YV-RJ	B	....	Coro, Venezuela.
4980	YV5RT	B	....	Caracas, Venezuela.
4990	YV3RX	B	....	Barquisimeto, Venezuela.
5000	TFL	C	....	Reykjavik, Iceland.

### Explanation of the Third Column Symbols:

A—Aircraft.	EM—Emergency.
B—Broadcast.	SEM—Special emergency.
C—Commercial Telegraph.	MF—Marine fire.
F—Forestry.	MR—Marine Relay.
G—Government.	PR—Press relay.
P—Police.	RB—Relay broadcast.
S—Ship.	FAC—Facsimile.
T—Radio Telephone.	TV—Television video.
FA—Aeronautical (ground).	TA—Television audio.
FMB—Frequency modulated broadcasting station.	NCE—Non-commercial educational.
GLO—Geophysical.	CC—Coastal Telegraph.
RC—Circular radiobeacon.	CH—Coastal harbor.
RD—Directional radiobeacon.	CHC—Coastal harbor telegraph.
RG—Direction finding station.	MT—Coastal harbor telephone.
LH—Lighthouse.	E
RR—Radio range station.	E1
MP—Municipal police.	E2
SP—State police.	E3
ZP—Zone police.	Experimental.
	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 the station, as for example: WRHD MP 250 Louisville, Ky. (2 units-12 w).

# NORTH AMERICAN BROADCASTING STATIONS BY FREQUENCIES WITH VERIFICATION SIGNERS

## 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 that using this power under Special Authorization.
- K—Licensed for facsimile.
- L—Limited time.
- M—Mutual Network.
- N—National "Red" and "Blue" Networks.

- O—RHC-Cadena Azul (Cuban Network)
- P—Has Construction Permit only.
- Q—Station not in use.
- R—National "Red" Network.
- S—Synchronized.
- Sx—Indicates a "Booster" (or amplifier, or satellite) station working with a larger station. The main station is indicated by S).
- 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.

### Fourth Column Symbols

- 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; verify stamp for 10c.
- z—No information available.

## 540 kcs. (552.2 m.)

CBK	F	50000
CMAN	O	1000

- a Watrous Sask
- a Pinar del Rio, Cuba

## 550 kcs. (545.1 m.)

CFNB	F	1000
CMW		2500
KFYR	N	1000(5)
KOAC		1000
KOY	C	1000
KSD	R	1000(5)
KTSA	C	1000(5)
WDEV	D	1000
WGR	CM	1000(5)
WKRC	M	1000(5)
WSVA	DX	500

- a Fredericton, N. B.
- a Havana, Cuba
- a Bismarck N Dak.
- a Corvallis, Ore.
- g Phoenix, Ariz.
- a St. Louis, Mo.
- a San Antonio, Texas
- a Waterbury, Vt.
- a Buffalo, N. Y.
- a Cincinnati, Ohio
- a Harrisonburg, Va.

W. R. Griffin, DX Ann'cr,  
Luke L. Roberts, Mgr.

Geo. Burbach, Mgr.  
G. W. Johnson, Mgr.  
Melvin Stickle, Ch. Eng.  
I. R. Lounsbury, Gen. Mgr.  
Vera Tyson  
Wendell Siler Prog. Dir.

## 560 kcs. (535.4 m.)

CJKL	F	1000
KFDM	N	1000
KLZ	C	5000
KSFO	C	1000(5)
KWTO	D	5000
WFIL	BM	1000
WGAN	CHXZ	500
WIND	CX	1000(5)
WIS	NX	1000(5)
WQAM	C	1000

- Kirkland Lake, Ont.
- a Beaumont, Texas
- a Denver, Colo.
- a San Francisco, Calif.
- a Springfield, Mo.
- a Philadelphia, Pa.
- a Portland, Me.
- a Gary, Ind.
- a Columbia, S. C.
- a Miami, Fla.

Bernice Anderson, Sec'y.  
G. W. Meyer, Mgr.  
Philip G. Lasky, Mgr.  
Rlaph D. Foster, Mgr.  
Roger W. Clipp, Gen. Mgr.

Kenneth Shirk, Ch. Eng.  
Floyd Rodgers, Prog. Dir.  
Norman MacKay, Prog. Dir.

## 570 kcs. (526 m.)

CMKV	O	2500
KGKO	N	1000(5)
KMTR		1000
KVI	C	5000
TISCV	575	100
WKBN	CI	500(1)
WMAM	D	250
WMCA		1000
WNAX	C	1000(5)
WOSU	G1	1000
WSYR	B	1000
WWNC	C	1000

- a Holguin, Cuba
- a Fort Worth, Tex.
- a Los Angeles, Calif.
- a Tacoma, Wash.
- z Alajuela, Costa Rica
- a Youngstown, Ohio
- z Marinette, Wis.
- a New York, N. Y.
- a Yankton, S. Dak.
- a Columbus, Ohio
- a Syracuse, N. Y.
- a Asheville, N. C.

Harold V. Hough, Mgr.  
Kenneth Tinkham, Mgr.  
J. W. Wallace, Ch. Eng.  
Carlos Vidache A.  
A. D. Hardy

F. Hapton  
Clifton Todd, Ch. Eng.  
A. Hammerschmidt, Ch. Eng.  
Armand G. Belle Isle Chl. Eng.  
G. B. Hoskins Ch. Eng.

## 580 kcs. (516.9 m.)

CFPR		50
CHRC		100
CKCL	F	1000
CKPR	F	1000

- a Prince Rupert, B. C.
- a Quebec, P. Q.
- a Toronto, Ont.
- a Fort William, Ont.

Felix E. Batz  
.....  
.....  
.....

CKUA	F	500
KMJ	EN	5000
KSAC	2	500(1)
WCHS		500(5)
WDBO		100(5)
WIBW		1000(5)
WILL	D	5000
WTAG	R	1000(5)
XEMU		250

**590 kcs. (508.2 m.)**

CMCY	O	20000
KHQ	ER	5000
WEEL	C	5000
WKZO	B	1000
WOW	R	5000

**600 kcs. (499.7 m.)**

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

**610 kcs. (491.5 m.)**

CHNC	F	1000
CMJN	O	1000
KFAR		1000
KPRC	M	5000
WCLE	DM	500
WDAF	R	5000
WIOD	NX	1000
WIP		5000
WMUR	P	1000(5)

**620 kcs. (483.6 m.)**

KGW	R	1000(5)
KTAR	ENX	1000
KWFT		250(1)
TIGP	625	5000
WAGE	P	1000
WFLA		1000(5)
WHJB	D	250
WLBZ	MN	500(1)
WSUN	N	1000(5)
WTMJ		1000(5)

**630 kcs. (475.9 m.)**

CFCO	F	100
CFCY	F	1000
CJRC	F	1000
CKOV	F	1000
CMCD		15000
KFRU	INXZ	500(1)
KGFX	D	200
KOH	N	1000
KVOD	B	1000
WGBF	INXZ	500(1)
WML	BX	250(5)
WPRO	C	5000
XEZ		2000

**640 kcs. (468.5 m.)**

CMKN	O	1000
HOK		50000
KFI	R	12500
VONF		500
WHKC	LM	5000
WOI	D	250
XEBX		500
YSS		500

- b Edmonton, Alta.
- a Fresno, Calif.
- a Manhattan, Kans.
- a Charleston, W. Va.
- a Orlando, Fla.
- a Topeka, Kans.
- a Urbana, Ill.
- a Worcester, Mass.
- z Piedras Negras, Coah.

- a Havana, Cuba
- a Spokane, Wash.
- a Boston, Mass.
- a Kalamazoo, Mich.
- a Omaha, Nebr.

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

- a New Carlisle, P. Q.
- a Camaguey, Cuba
- z Fairbanks, Alaska
- b San Francisco, Calif.
- a Cleveland, Ohio
- a Kansas City, Mo.
- a Miami, Fla.
- a Philadelphia, Pa.
- z Manchester, N. H.

- a Portland, Ore.
- a Phoenix, Ariz.
- z Wichita Falls, Tex.
- b San Jose Costa Rica
- z Salina, N. Y.
- a Tampa, Fla.
- a Greensburg, Pa.
- a Bangor, Maine
- a St. Petersburg, Fla.
- a Milwaukee, Wis.

- a Chatham, Ont.
- a Charlottetown, P. E. I.
- a Winnipeg, Man.
- a Kelona, B. C.
- a Havana, Cuba
- a Columbia, Mo.
- a Pierre, S. Dak.
- a Reno, Nev.
- a Denver, Colo.
- a Evansville, Ind.
- a Washington, D. C.
- a Providence, R. I.
- a Merida, Yuc.

- a Santiago, Cuba
- z Colon, Panama
- z Los Angeles, Calif.
- a St. John's, Nfld.
- a Columbus, Ohio
- a Ames, Iowa
- z Sabinas, Coah.
- a San Salvador, E. S.

- ....
- i. E. Dickinson, Ch. Eng.
- L. L. Longsdorf Prog Dir.
- Odes Robinson, Ch. Eng.
- G. Burnett
- Ben Ludy, Gen. Mgr.
- A. James Ebel, Ch. Eng.
- Lillian Murphy, Prog Dir.
- ....

- ....
- Harvey Wixson, Mgr.
- Margaret Grady
- John Fetzner, Gen. Mgr.
- Wm. Kotera, Ch. Eng.

- Kenneth Paul, Ch. Eng.
- A. A. Murphy, Gen. Mgr.
- D. E. Laws, Mgr.
- G. Salomon
- Leah McMahan, Prog. Dir.
- Gonzalo Pinto H.
- Mary Lewis
- Garo Ray
- C. F. Quentin, Ch. Eng.
- S. D. Wooten Jr., Ch. Eng.

- Dr. Charles Houde, owner

- A. E. Lathrop, owner
- Ward Ingram, Mgr.
- E. L. Gove, Tech. Sup.
- A. Curl
- Ruth Richardson
- James Allen Prog. Dir.
- ....

- H. C. Singleton, Ch. Eng.
- Richard Lewis, Mgr.
- D. A. Kahn, Mgr.
- Claudia Hartinos

- W. Walter Tison, Mgr.
- Walter McCoy, Ch. Eng.
- Lucille Weeks
- Louis Link, Ch. Eng.
- Don Abert, Mgr.

- John Beardall
- John Q. Adams, Ch. Eng.
- G. A. Titus, Mgr.
- James Browne, Ch. Eng.
- J. Benitez, Mgr.
- Robert Haigh, Ch. Eng.
- Robt. Dye, Ch. Eng.
- Merle Snider, Prog. Dir.
- T. C. Ekrem, Mgr.
- Pat Roper, Prog Dir.
- A. E. Johnson, Ch. Eng.
- Margaret O'Rourke
- Jorge Palomeque

- ....
- Dorothy Roe

- ....
- J. E. Anderson, Ch. Eng
- W. E. Stewart, Ch. Eng.
- Benito Garzo O.
- ....

**650 kcs. (461.3 m.)**

TIGPH P  
WSM N 50000

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

Gonzalo Pinto H.  
Harry Stone, Gen. Mgr.

**660 kcs. (454.3 m.)**

KOWH BD 500  
WEAF R 50000  
XEAO ... 250

a Omaha, Nebr.  
a New York, N. Y.  
a Mexicali, B. Cfa.

W. F. Myers, Mgr.  
Audience Mail Dept.  
....

**670 kcs. (447.5 m.)**

WMAQ R 50000  
XELO ... 50000

b Chicago, Ill.  
a Tijuana, B. Cfa.

Audience Mail Dept.  
....

**680 kcs. (440.9 m.)**

KFEQ ... 500 (2.5)  
KPO R 50000  
VAS 685 2000  
WLaw DX 1000  
WPTF NX 5000  
.... EP 5000

a St. Joseph, Mo.  
a San Francisco, Calif.  
f Glace Bay, N. S.  
a Lawrence, Mass.  
a Raleigh, N. C.  
z Santiago de Cuba

J. Wesley Koch, Ch. Eng.  
Audience Mail Supervisor  
....  
H. W. Brown  
Graham Poyner, Prog. Dir.

**690 kcs. (434.5 m.)**

CFRB C 10000  
CJCJ F 100  
CMQ N 25000  
TIGH ... 1000  
XET ... 5000

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

H. Sedgwick, Man. Dir.  
R. H. Henderson, Ch. Eng.  
Gonzalo Garcia  
....

**700 kcs. (428.3 m.)**

VOWR ... 500  
WLW KN 50000  
WBXO Exp 50000

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

....  
Wilfred Guenther, Mgr.  
Wilfred Guenther, Mgr.

**710 kcs. (422.3 m.)**

CMGH ... 200  
KIRO CX 1000  
KMPC CX 1000 (5)  
WOR KM 50000  
.... EP 5000

a Matanzas, Cuba  
a Seattle, Wash.  
a Beverly Hills, Calif.  
a Newark, N. J.  
z Santa Clara, Cuba

....  
H. J. Quilliam, Mgr.  
L. A. Schambin, Mgr.  
J. R. Poppele, Ch. Eng.

**720 kcs. (416.4 m.)**

CMBL ... 5000  
TIANRH 725 750  
WGN KM 50000  
XEWE ... 20

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

Amando Cespedes Marin  
Quinn A. Ryan, Gen. Mgr.  
....

**730 kcs. (410.7 m.)**

CFPL F 100  
CJCA F 1000  
CKAC C 5000  
CMKU E 1000  
XEQ ... 50000

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

L. J. Yorke, Ch. Eng.  
W. T. Cranston, Mgr.  
Leonard Spencer, Ch. Eng.  
J. M. Marroqui : :

**740 kcs. (405.2 m.)**

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

a Grand Island, Nebr.  
a Modesto, Calif.  
a Portsmouth, N. H.  
a Atlanta, Ga.  
a Monterrey, N. L.  
z Piedras Negras, Coah.

Randall Ryan, Mgr.  
Don. R. Stevens  
T. R. McTammany, Mgr.  
C. F. Dougherty, Ch. Eng.  
Consantine de Ternava

**750 kcs. (399.8 m.)**

CMK ... 200  
KGU LN 2500  
TING ... 375

a Havana, Cuba  
a Honolulu, Hawaii  
z San Jose, Costa Rica

Marion A. Mulrony, Mgr.  
Narcisco Garcia

WJR C 50000  
 XEAA ... 200  
 XEAM ... 25  
 XEON ... 2000

770 kcs. (394.5 m.)

CMGN O 1000  
 CMHN E 1000  
 CMKJ E 1000  
 KXA L 1000  
 WBAL HSX 2500  
 WCAL D2 5000  
 WEW D 1000  
 WJZ BS 50000  
 WLB D2 5000

770 kcs. (389.4 m.)

KFAB CSXZ 10000  
 TILJ 775 450  
 WBBM CS 50000

780 kcs. (384.4 m.)

CHWK F 100  
 CKSO F 1000  
 CMBC ... 5000  
 KECA X 1000(5)  
 KFDY D 1000  
 KFQD ... 250  
 KGHL NX 1000(5)  
 WEAN BMX 1000(5)  
 WMC JR 5000  
 WPIC DX 250  
 WPRA ... 1000(2.5)  
 WTAR NX 1000(5)  
 XEN ... 1000

790 kcs. (379.5 m.)

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

800 kcs. (374.8 m.)

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

810 kcs. (370.2 m.)

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

820 kcs. (365.6 m.)

WHAS C 50000  
 XEBG ... 1000

830 kcs. (361.2 m.)

CMHI O 10000  
 KFUO D 1000  
 KOA R 50000  
 TIEP ... 3000  
 WEEU DN 1000  
 WHDH L 1000  
 WRUF L 5000  
 XERC ... 500

a Detroit, Mich.  
 a Mexicali, B. Cfa.  
 z Matamoros, Tam.  
 a Tijuana, B. Cfa.

a Jovellanos, Cuba  
 a Santa Clara, Cuba  
 a Guantanamo, Cuba  
 a Seattle, Wash.  
 a Baltimore, Md.  
 a Northfield, Minn.  
 a St. Louis, Mo.  
 a New York, N. Y.  
 a Minneapolis, Minn.

a Lincoln, Nebr.  
 z San Jose, C. Rica  
 a Chicago, Ill.

f Chilliwack, B. C.  
 a Sudbury, Ont.  
 a Havana, Cuba  
 a Los Angeles, Calif.  
 a Brookings, S. Dak.  
 b Anchorage, Alaska  
 a Billings, Mont.  
 a Providence, R. I.  
 a Memphis, Tenn.  
 a Sharon, Pa.  
 a Mayague, P. R.  
 g Norfolk, Va.  
 a Mexico City, D. F.

a San Francisco, Calif.  
 a Pittsburg, Kans.  
 a Schenectady, N. Y.  
 d Nassau, Bahamas

a Trujillo, D. R.  
 z San Jose, Costa R.  
 a Fort Worth, Texas  
 a Dallas, Texas  
 a Cumberland, Md.

a Havana, Cuba  
 g Minneapolis, Minn.  
 a New York, N. Y.  
 a Mexico City, D. F.

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

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

Geraldine Elliott, Prog. Dir.  
 Alberto Gonzalez  
 Manuel L. Salinas

Florence Wallace, Mgr.  
 Gerald Cooke, Ch. Eng.  
 Milford Jensen, Ch. Eng.  
 Geo. Rueppel, Ch. Eng.  
 Audience Mail Dept.  
 Waldemar Klima, Ch. Eng.

Mark W. Bullock, Tech. Dir.  
 Lola Monje Peralta  
 Frank Fligel

Jack Pilling, Ch. Eng.  
 W. E. Mason

Jack Gross, Mgr.  
 S. W. Jones, Mgr.  
 R. E. McDonald, Mgr.  
 Ed Yocum, Mgr.  
 Rose M. Powers  
 J. C. Eggleston, Mgr.  
 John MacDonald, Eng.  
 Lee Chadwick, DX Correspondent  
 Guillemine de del Conde

Lloyd E. Yoder, Mgr.  
 R. L. Jones, Eng.  
 W. J. Purcell, Ch. Eng.  
 K. P. Brown, Sec'y.

J. R. Saladin  
 Andrea Venegas  
 Ellen Flake, Sec'y.  
 Adams Calhoun  
 Geo. R. Lenhart, Ch. Eng.

Oscar Gutierrez  
 Hugh McCartney Ch. Eng.  
 Issac Brimberg, Ch. Eng.  
 ....

Lawrence Pohl  
 Angel B. Fernandez

....  
 T. E. Stepp  
 Eduardo Pinto H.  
 M. Leonard Savage, Eng.  
 M. Bresnahan  
 Joseph Weil, Ch. Eng.  
 Carlos Dragome Narro

860-840 kcs. (356.9 m.)

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

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

W. C. Little, Ch. Eng.  
...  
Don Howard

870-850 kcs. (352.7 m.)

CMCM ... 200  
KIEV D 250  
WHCU CD 1000  
WKAR D 5000  
WWL C 50000

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

V. Montes  
David H. Cannon  
True McLean, Ch. Eng.  
Norris Grover, Ch. Eng.  
J. D. Bloom, Ch. Eng.

880-860 kcs. (348.6 m.)

CMJA ... 200  
CMKS ... 200  
TIEMC ... 250  
WABC C 50000  
WHB DM 1000  
XEMO ... 5000

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

Rafael Valdes  
  
Rafael Hine Ch.  
F. Donald Ickes  
M. H. Straight, Mgr.  
Fernando Federico Ferrelra

890-870 kcs. (344.6 m.)

CMJM O 1000  
WENR Ba 50000  
WLS Ba 50000  
XEFB ... 500

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

...  
T. L. Rowe, Ch. Eng.  
Jesus Quintanilla

910-880 kcs. (340.7 m.)

CBO F 1000  
CFJC F 1000  
CMX ... 10000  
KFKA M2 1000  
KLX ... 1000  
KPOF 2 1000  
KRRV M 1000  
KVAN D 250  
TILS ... 500  
WCOC C 1000  
WGBI CI 500(1)  
WQAN I 500(1)  
WRNL B 1000  
WSUI ... 1000(5)

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

Lillian E. de Olloqui  
L. Irwine, Ch. Eng.  
Raoul Karman, Dir.  
H. E. Green, Mgr.  
P. D. Allen, Mgr.  
Wesley O. Lomlin, Annc'r.

Paul W. Spargo, Ch. Eng.  
Luis Saenz Mata  
John B. Rogers, Ch. Eng.  
K. R. Cooke, Ch. Eng.  
...  
Walter R. Selden, Ch. Eng.  
Sylvanus Ebert, Ch. Eng.

920-890 kcs. (336.9 m.)

KARK NX 1000  
KFNF 2 500(1)  
KFPY C 5000  
KTKC M 1000  
KUSD 2 500  
WBAA X 500(1)  
WGST C 1000(5)  
WJAR RX 1000(5)  
WMMN CX 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.

Jack Lewis, Prog. Dir.  
Wm. MacDonald, Com. Mgr.  
T. W. Symons, Mgr.  
Chas. P. Scott, Mgr.  
B. B. Brockett, Mgr.  
Ralph R. Townsley, Ch. Eng.  
Ben Akerman, Ch. Eng.  
Thomas Prior, Ch. Eng.  
J. R. Heck, Ch. Eng.  
...

930-900 kcs. (333.1 m.)

CMJX ... 200  
HIG ... 250  
KGBU X 500  
KHJ MX 1000(5)  
KSEI N 250(1)  
TIAFB ... 600  
WBEN RX 1000(5)  
WFMD D 500  
WJAX N 1000(5)  
WKY N 5000  
WLBL D 5000  
WPAT DP 1000  
WPAU D 1000

- a Camaguey, Cuba
- 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.
- a Jacksonville, Fla.
- a Oklahoma City, Okla.
- a Stevens Point, Wis.
- z Paterson, N. J.
- a Quincy, Ill.

Andres Cordero Puello  
James A. Britton, Mgr.  
Lewis Allen Weiss, Mgr.  
R. A. Fletcher, Prog. Dir.  
Mayid Borzuna  
Ralph Kingsley, Ch. Eng.  
John A. Fels, Ch. Eng.  
Harry Cole, Mgr.  
Earl C. Hull, Ch. Eng.  
F. R. Calvert, Mgr.

Paul E. Miller, Ch. Eng.

940-910 kcs. (329.6 m.)

CBF FN 50000  
CJAT F 1000  
CKY F 15000

- a Montreal, P. Q.
- a Trail, B. C.
- a Winnipeg, Man.

Francis Gondraner, Mgr.  
...  
...

CMKD ... 1000  
 XEFE ... 250  
 KENT Q 50000

920 kcs. (325.9 m.)

CMHT ... 200  
 CMZ ... 5000  
 KFEL MX 1000  
 KOMO RX 1000(5)  
 KPRC EXR 1000(5)  
 TIRS 925 200  
 WAAF D 1000  
 WORL D 500  
 WPEN X 1000  
 WSPA D 1000  
 WYJ RX 1000(5)

930 kcs. (322.4 m.)

CFAC F 1000  
 CFCH F 100  
 CFCL ... 100  
 CHNS F 1000  
 CKPC ... 100  
 CMJF ... 500  
 KMA B 1000(5)  
 KROW ... 1000  
 WBRC RX 1000(5)  
 WDBJ CX 1000(5)  
 WELI ... 250(5)  
 XEBH ... 500

940 kcs. (319 m.)

KOIN C 5000  
 TIOS ... 500  
 WAAT DX 500  
 WAVE NX 1000  
 WCSH RX 1000(2.5)  
 WDAY NX 1000(5)  
 WHA D 5000  
 WICA D 1000  
 WKGA P 1000(5)  
 WFFO ... 5000

950 kcs. (315.6 m.)

CBV F 1000  
 CJRM F 1000  
 CKWX F 1000  
 CMHW ... 200  
 CMKL ... 200  
 KFWB E 5000  
 KMBC C 5000  
 VOAR ... 25  
 WHAL DP 500  
 WRC RX 1000(5)  
 WTRY D 1000

960 kcs. (312.3 m.)

CBM FR 5000  
 CFRN F 100  
 XEAW ... 100000

970 kcs. (309.1 m.)

CMCK ... 5000  
 KJR B 5000  
 WCFL N 5000  
 WIBG L 1000

980 kcs. (306 m.)

KDKA B 50000  
 XEAC ... 5000

990 kcs. (302.8 m.)

WBZ BS 50000  
 WBZA BS 1000  
 KENT ... 150000

a Santiago de Cuba  
 a Nuevo Laredo, Tam.  
 a Nuevo Laredo, Tam.

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.

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

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  
 z Tampa, Fla.  
 a Mexico City, D. F.

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

a Montreal, P. Q.  
 a Edmonton, Alta.  
 a Reynosa, Tam.

z Havana, Cuba  
 a Seattle, Wash.  
 a Chicago, Ill.  
 a Glenside, Pa.

b Pittsburgh, Pa.  
 a Tijuana, B. Cfa.

a Boston, Mass.  
 a Springfield, Mass.  
 a Nuevo Laredo, Tam.

Francisco Meneau  
 Rafael T. Carranza  
 T. Yount, Mgr.

F. E. Soto del Valle  
 Gene O'Fallon, Mgr.  
 Lee Barnes, Aud. Mail Dept.  
 Kery Tips, Mgr.  
 Rogelio Sotela B.  
 Wm. E. Hutchinson, Mgr.  
 Geo. Luckey, Ch. Eng.  
 E. S. Long, Ch. Eng.  
 Ty Tyson

R. H. Thomson  
 Vincente Salgado  
 J. Rapp, Mgr.  
 H. P. Drey, Mgr.  
 James T. Milne, Mgr.  
 Carlos Balderrama

B. J. Parrish, Mgr.  
 Guillermo Castro S.  
 Paul H. LaStayo, Mgr.  
 G. Fred Crandon, Ch. Eng.  
 Julius Hetland, Ch. Eng.  
 C. A. Rowley

Alberto Alvarez Ferrefa  
 Harry Maizlish, Mgr.  
 Arthur B. Church, Mgr.  
 K. H. Berkelev

H. D. Munal

Luis Casas R.  
 Audience Mail Dept.  
 Maynard Marquardt, Ch. Eng.

A. E. Nelson Mgr.  
 Jorge I. Revera

Dwight Myer, Ch. Eng.  
 H. E. Randol, Mgr.  
 T. Yount, Mgr.

1030

1000 kcs. (299.8 m.)

CMKG	...	10000
KFVD	L	1000
TIFA	...	250
WHO	R	50000
XEAF	...	750
XEK	...	200
XEBI	...	250

z	Santiago de Cuba
a	Los Angeles, Calif.
z	San Jose, C. Rica
a	Des Moines, Iowa
a	Nogales, Son.
a	Mexico City, D. F.
a	Agascalientes, Ags.

....  
 Frank Burke, Mgr.  
 Francisco Ariel  
 Paul A. Loyat, Ch. Eng.  
 ....  
 Fernando Sada  
 Pedro C. Rivas

1040

1010 kcs. (296.9 m.)

CHML	F	100
CKCK	F	1000
CKCO	F	100
CMBZ	...	5000
KGGF	M2	1000
KQW	M	5000
WHN	...	1000(5)
WNAD	2	1000
WNOX	C	1000(5)
XEFQ	...	500
XEU	...	500

a	Hamilton, Ont.
a	Regina, Sask.
a	Ottawa, Ont.
a	Havana, Cuba
a	Coffeyville, Kans.
a	San Jose, Calif.
a	New York, N. Y.
a	Norman, Okla.
a	Knoxville, Tenn.
a	Cananea, Son.
a	Veracruz, Ver. C.

....  
 Dr. G. H. Geldert  
 Hugh J. Powell  
 C. S. Harper, Mgr.  
 ....  
 T. M. Beard, Prog. Dir.  
 Pedro L. Diaz  
 ....  
 Fernando Pazos S.

1050

1020 kcs. (293.9 m.)

CMHO	...	....
CMJK	...	200
KYW	RX	10000
WDZ	D	1000
XEJ	...	1000

z	Cienfuegos, Cuba
z	Camaguey, Cuba
b	Philadelphia, Pa.
a	Tuscola, Ill.
a	Juarez, Chih.

....  
 Leslie W. Joy, Mgr.  
 Mark C. Spies, Ch. Eng.  
 Pedro Meneses, Jr.

1060

1030 kcs. (291.1 m.)

CFCN	F	10000
CJBR	F	1000
CKLW	FM	5000
CMKW	...	1000
CMAC	P	100
TIHO	...	500
XEB	...	20000

a	Calgary, Alta.
a	Rimouski, P. Q.
a	Windsor, Ont.
z	Santiago de Cuba
z	Pinar Del Rio, Cuba
z	San Jose, C. Rica
a	Mexico City, D. F.

E. Marshall  
 J. A. Brilliant  
 ....  
 Claudio Alvarez Soriano  
 Guillermo Zuniga R.  
 ....

1070

1040 kcs. (288.3 m.)

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

a	Dallas, Texas
a	Portland, Ore.
a	Merced, Calif.
z	St. John's, Nfld.
a	Hartford, Conn.
z	Matanzas, Cuba

Given Boyd  
 Art Morey, Ann'cr.  
 John W. Crews, Mgr.  
 T. C. McCray  
 ....

1080

1050 kcs. (285.5 m.)

CBA	F	50000
CMCH	...	200
CMCX	...	200
CMKW	...	1000
HIT	...	50
KFBI	LX2	5000
KNX	C	50000
WEAU	L2	1000(5)
WIBC	D	1000

a	Sackville, N. B.
a	Havana, Cuba
z	Guanabacoa, Cuba
z	Santiago de Cuba
z	Trujillo, D. R.
a	Wichita, Kans.
a	Los Angeles, Calif.
a	Eau Claire, Wis.
a	Indianapolis, Ind.

A. L. Pichardo  
 Donald Thornburgh, Mgr.  
 L. H. Bowman  
 ....  
 ....

1090

1060 kcs. (282.8 m.)

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

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

Mary F. Loyd, Sec'y.  
 ....  
 Gerald Cooke, Ch. Eng.  
 Art Thomas, Mgr.

1100

1070 kcs. (280.2 m.)

CMJW	...	200
KJBS	L	500
TINBC	P	5000
WCAZ	D	100
WTAM	R	50000

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

M. Caymares Silva  
 Miriom Ford, Traffic Dept.  
 Oscar Martinez N.  
 ....  
 May Draxell



1110

1080 kcs. (277.6 m.)

CMCG	...	200
CMKM	...	200
WBT	C	50000
WCBD	LI	5000
WMBI	LI	5000
XEBA	...	20
XEBK	...	100
XEDP	...	500

- a Havana, Cuba
- a Manzanillo, Cuba
- a Charlotte, N. C.
- a Chicago, Ill.
- o Chicago, Ill.
- z Guzman, Jal.
- z Nuevo Laredo, Tam.
- a Mexico City, D. F.

Jesus Armesto  
 ....  
 A. P. Frye, Ch. Eng  
 Javier Velasco  
 J. M. Cortes  
 ....

1120

1090 kcs. (275.1 m.)

CMHA	...	200
HIN	...	100
KMOX	C	50000
XERB	...	50000

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

Abelardo Menocal  
 J. M. Bonetti  
 G. L. Tevis, Ch. Eng.  
 ....

1130

1100 kcs. (272.6 m.)

CBR	F	5000
CMHP	...	200
KGDM	DM	1000
KWKH	C	50000
WCAR	DP	1000
WOV	X	5000

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

....  
 ....  
 A. H. Green, Mgr.  
 John McCormack, Mgr.  
 ....  
 S. H. Alper

1140

1110 kcs. (270.1 m.)

CMCU	...	5000
CMKH	...	200
KSOO	LN	5000
WRVA	CM	50000
XECL	...	1000

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

....  
 M. D. Roddenbury  
 Alfonso A. Lacarra

1150

1120 kcs. (267.7 m.)

CBJ	F	100
CHLP	F	100
CHSJ	F	1000
CKOC	F	1000
CKX	F	1000
CMGF	...	200
KFIO	D	100
KFSG	a	1000(.5)
KRKD	a	1000(.5)
KSAL	...	500(1)
KRSC	E	1000
KTBC	DG2	1000
WCOP	D	500
WDEL	R	250(1)
WISN	C	250(1)
WJBO	BX	500
WKPA	D	250
WTAW	G2X	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 Salina, Kans.
- a Seattle, Wash.
- z Austin, Texas
- a Boston, Mass.
- a Wilmington, Del.
- a Milwaukee, Wis.
- a Baton Rouge, La.
- a New Kensington, Pa.
- a College Station, Texas

....  
 ....  
 L. W. Bewick, Sec'y-Treas.  
 ....  
 Bernabe de la Torre  
 Arthur L. Smith, Mgr.  
 Ruth Pritchard  
 Dr. Giles N. Knight, Mgr.  
 ....  
 C. R. Cooper

1160

1130 kcs. (265.3 m.)

CMJI	...	200
KSL	C	50000
WJJD	L	20000
XEJP	...	100

- a Ciego de Avila, Cuba
- a Salt Lake City, Utah
- a Chicago, Ill.
- z Mexico City, D. F.

Gilberto Gesse Lopez  
 E. G. Pack; Earl J. Glade  
 J. L. Allabough  
 Salvador Monterrubio R.

1170

1140 kcs. (263 m.)

CMKY	...	5000
KVOO	N	25000
WAPI	C	5000
WSPR	LMZ	500

- z Santiago, Cuba
- a Tulsa, Okla.
- a Birmingham, Ala.
- a Springfield, Mass.

Wm. B. Way, Mgr.  
 N. McFarland  
 Hillis W. Holt

1180

1150 kcs. (260.7 m.)

CMBO	...	5000
WHAM	N	50000
XEBP	...	250
XEC	...	100
XEDW	...	300
XEL	...	250
XEXH	...	400

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

John J. Long, Ch. Eng.  
 ....  
 Manuel Cano M.  
 Luis F. Encisco  
 Hector Silva Canto  
 ....

1190

1160 kcs. (258.5 m.)

CMHJ	..	200
KEX	B	5000
WOWO	B1	10000
WWVA	C1	5000
XEAS	...	100
XED	...	2500
XEFM	...	...
XEP	...	500

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

Richardo Ugalde  
 H. C. Singleton, Ch. Eng.  
 ....  
 E. A. Hadden, Eng.  
 Manuel R. Rodriguez  
 ....  
 Estaban Perra

1170 kcs. (256.3 m.)

WCAU	C	50000
XEXX	...	1000

- a Philadelphia, Pa.
- z Mexico City, D. F.

J. G. Leitch  
 ....

1180 kcs. (254.1 m.)

CMBG	...	1500
CMBX	...	200
KOB	NX	10000
WDGY	LMXZ	1000 (5)
WINS	L	1000
WMAZ	CL	1000(5)

- a Havana, Cuba
- a Havana, Cuba
- a Albuquerque N. Mex.
- a Minneapolis, Minn.
- a New York, N. Y.
- a Macon, Ga.

T. M. Pepperday, Mgr.  
 Dr. Geo. W. Young  
 ....  
 ....

1190 kcs. (252 m.)

CMGH	...	500
CMKX	...	200
WOAI	EN	50000
MSAZ	LZ	1000

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

....  
 Oscar Vidal Benitez  
 ....  
 S. Swann

1200 kcs. (249.9 m.)

CHAB	F	100(.25)
CHGB	F	100

- a Moose Jaw, Sask.
- z St. Anne de la Pocatierrre, P. Q.

A. E. Jacobson, Ch. Eng.  
 G. Thomas Desjardins

CKNX	...	100
CKTB	F	100
CKVD	...	100
KADA	EM	250
KAST	...	250
KBTM	...	100(.25)
KELO	N	250
KFDA	EM	250
KFJB	...	250
KFXD	...	250
KFXJ	...	250
KGDE	...	100(.25)
KGEK	...	100
KGFI	...	100
KGHI	...	250
KHAS	...	250
KHBC	CM	250
KMLB	...	250
KODL	P	100(.25)
KOOS	M	250
KPHO	P	250
KSUN	E	250
KVCV	M	250
KVEC	M	250
KVNU	...	250
KVOS	M	250
KWG	BE	100
KWNO	E	250
TIRCC	...	500
WABI	C	250
WAIM	C	100
WAJR	P	250
WAYX	...	250
WBAB	...	250
WBBZ	M	250
WBHP	X	100
WBLJ	P	250
WBOW	N	250
WCAT	D	100
WCAX	C	250
WCBT	P	250
WCED	P	250
WCLO	...	250
WCOL	N	250
WCPO	...	250
WDLF	...	100(.25)

- a Wingham, Ont.
- a St. Catharines, Ont.
- z Val d'Or, P. Q.
- a Ada, Okla.
- a Astoria, Ore.
- a Jonesboro, Ark.
- a Sloux Falls, S. Dak.
- a Amarillo, Tex.
- a Marshalltown, Iowa
- a Nampa, Idaho
- a Grand Junction, Colo.
- b Fergus Falls, Minn.
- f Sterling, Colo.
- a Los Angeles, Calif.
- a Little Rock, Ark.
- a Hastings, Nebr.
- a Hilo, Hawaii
- a Monroe, La.
- z The Dalles, Oreg.
- a Marshfield, Ore.
- z Phoenix, Ariz.
- a Lowell, Ariz.
- a Redding, Calif.
- a San Luis Obispo, Calif.
- z Logan, Utah
- d Bellingham, Wash.
- a Stockton, Calif.
- a Winona, Minn.
- z San Jose, C. Rica
- a Bangor, Maine
- a Anderson, S. C.
- z Morgantown, W. Va.
- a Waycross, Ga.
- a Atlantic City, N. J.
- a Ponca City, Okla.
- a Huntsville, Ala.
- z Daeton, Ga.
- a Terre Haute, Ind.
- a Rapid City, S. Dak.
- a Burlington, Vt.
- z Roanoke Rapids, N. C.
- z Du Bois, Pa.
- a Janesville, Wis.
- a Columbus, Ohio
- a Cincinnati, Ohio
- a Panama City, Fla.

B. Howard Bedford, Asst. Mgr.  
 E. T. Sandell  
 Warren Moore, Prog. Dir.  
 Lawrence King, Ch. Eng.  
 Jay P. Beard, Mgr.  
 Joseph Henkin, Mgr.  
 Homer Griffith, Mgr.  
 Edward Hurt, Mgr.  
 Rex Howell, Mgr.  
 Mat E. Wakz, Ch. Eng.  
 Elmer G. Beehler  
 Thelma Kirchner, Prog. Dir.  
 Orville Rennie, Mgr.  
 Wbley Ewards, Mgr.  
 J. C. Liner, Jr., Mgr.  
 ....  
 Roger L. Spaug, Ch. Eng.  
 ....  
 Carleton W. Morris, Mgr.  
 Harold Smithson, Mgr.  
 Earl Travis, Ch. Eng.  
 J. M. Reeder, Ch. Eng.  
 ....  
 George Ross, Mgr.  
 A. E. Mickel, Mgr.  
 Carlos Borge  
 Ralph Wallace, Mgr.  
 Cecil Crawford  
 Jack Williams  
 ....  
 Don Mitchell, Ch. Eng.  
 ....  
 ....  
 C. M. Rowe, Prog. Dir.  
 James Tierney, Ch. Eng.  
 ....  
 Charles Brannen, Ch. Eng.  
 ....  
 Glen A. Davis, Ch. Eng.  
 ....

WDSM	M	100
WENY	M	250
WEST	M	250
WESX		100
WFAM	4	100
WFTC	...	250
WGRB	P	250
WHBC	M	250
WHBY	E	250
WHOP	...	250
WIBX	C	250
WIL	...	250
WJBC		250
WJBW	...	250
WJHL	XZ	250
WJNO	C	250
WJOB	4	100
WJRD	E	250
WKBO	N	250
WLOF	P	250
WLOG	D	100
WLVA	...	250
WMFR	...	250
WMOB	...	250
WMPG	G	250
WOLS	N	250
WRBL	C	250
WSAM	G	100 (.25)
WSKB	...	250
WSOO	...	100 (.25)
WTHT	M	250
WTOL	P	250

**1240**  
**1210 kcs. (247.8 m.)**

CHLT	...	100
CJCS		50
CKBI	FX	250
CKCH	F	100
CKMC	...	50
CKNB	F	100
CMCO	...	200
CMHK	...	200
CMOA	...	200
KALB	...	250
KANS	N	250
KASA	M	100
KBIZ	P	100
KDLR	...	250
KDON	M	100
KFJI		100
KFOR	EMX	100 (.25)
KFXM	M2	250
KGLO	C	250
KGY	M	100
KHBG	...	250
KIUL	...	100
KLAH	...	250
KOCA	...	250
KOVO	EM	250
KPFA	EN	250
KPPC	Z	100
KROY	C	100
KVSO	M	100 (.25)
KWAT	...	250
KWJB	...	250
KXOX	...	250
KYUM	E	250
WATN	P	250
WBAX	AM	100
WBBL	5	100
WBIR	P	100 (.25)
WBRB	3	100
WCOU	M	250
WCOV		100
WCRW	4	100
WEBO	...	250
WEDC	G4	250
WFAS	3	250
WFOY	...	250

z Superior, Wis.
d Elmira, N. Y.
a Easton, Pa.
z Salem, Mass.
a South Bend, Ind.
a Kingston, N. C.
z Grand Rapids, Mich.
a Canton, Ohio
a Appleton, Wis.
a Hopkinsville, Ky.
a Utica, N. Y.
a St. Louis, Mo.
a Bloomington, Ill.
a New Orleans, La.
a Johnson City, Tenn.
a W. Palm Beach, Fla.
a Hammond, Ind.
a Tuscaloosa, Ala.
a Harrisburg, Pa.
z Orlando, Fla.
a Logan, W. Va.
a Lynchburg, Va.
a High Point, N. C.
a Mobile, Ala.
a Lapeer, Mich.
a Florence, S. C.
a Columbus, Ga.
a Saginaw, Mich.
a McComb, Miss.
a Sault Ste. Marie, Mich.
a Hartford, Conn.
a Toledo, Ohio
z Baltimore, Md.

z Sherbrooke, P. Q.
a Stratford, Ont.
a Prince Albert, Sask.
a Hull, P. Q.
a Cobalt, Ont.
a Campbellton, N. B.
a Havana, Cuba
z Cruces, Cuba
a Havana, Cuba
a Alexandria, La.
a Wichita, Kans.
a Elk City, Okla.
z Ottumwa, Iowa
a Devils Lake, N. Dak.
a Monterey, Calif.
a Klamath Falls, Ore.
a Lincoln, Nebr.
a San Bernardino, Calif.
z Mason City, Iowa
a Olympia, Wash.
a Okmulgee, Okla.
a Garden City, Kans.
a Carlsbad, N. Mex.
a Kilgore, Texas
a Provo, Utah
a Helena, Mont.
a Pasadena, Calif.
a Sacramento, Calif.
a Ardmore, Okla.
a Watertown, S. Dak.
a Globe, Ariz.
z Sweetwater, Tex.
a Yuma, Ariz.
z Watertown, N. Y.
a Wilkes-Barre, Pa.
a Richmond, Va.
z Knoxville, Tenn.
a Red Bank, N. J.
a Lewiston, Maine
z Montgomery, Ala.
a Chicago, Ill.
a Harrisburg, Ill.
a Chicago, Ill.
a White Plains, N. Y.
a St. Augustine, Fla.

Fred A. Baxter  
J. E. Mathiot, Ch. Eng.  
...  
Al Todd; Paul Mangus  
Jonas Weiland  
...  
Kenneth Sliker, Ch. Eng.  
W. J. Stangel, Ch. Eng.  
...  
David Foote, Ch. Eng.  
C. H. Stoup, Ch. Eng.  
A. M. McGregor  
Charles C. Carlson  
O. K. Garland, Ch. Eng.  
Reginald B. Martin  
Randolph Bean, Prog. Dir.  
James R. Doss, Jr.  
Charles Myers, Ch. Eng.  
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Sid Tear, Annc'r.  
J. T. Orch, Eng.  
E. J. Day, Ch. Eng.  
A. B. Quigley  
Hollis F. Hayes, Ch. Eng.  
O. Lee Stone  
Oliver Hely, Ch. Eng.  
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Richard K. Blackburn  
Frank B. Ridgeway

Marcel Provst, Mgr.  
Frank M. Squires  
Gerald Prest  
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R. L. MacAdam  
C. S. Chapman, Mgr.  
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R. G. Gonzalez  
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Virgil Evans, Prog. Dir.  
Herbert Hollister, Mgr.  
Lyman Brown, Prog. Dir.  
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Merle Bjork, Ch. Annc'r.  
Howard Walters, Mgr.  
Geo. Kincaid, Mgr.  
Don Searle, Mgr.  
J. C. Lee, Mgr.  
F. C. Eighmey, Mgr.  
W. R. Taft, Mgr.  
A. F. Schultz, Ch. Eng.  
F. D. Conard, Mgr.  
Jack Hawkins, Mgr.  
H. A. Degner, Mgr.  
...  
E. B. Craney, Mgr.  
David Black, Mgr.  
Milton Cooper, Ch. Eng.  
Paul W. Ross, Ch. Eng.  
...  
Bartley Sims, Mgr.  
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Drury Lenington, Prog. Dir.  
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...  
Leslie Hall, Ch. Eng.  
Al Thompson, Ch. Eng.  
Clinton R. White  
J. R. Tate, Ch. Eng.  
Caleb Frisk, Ch. Eng.  
Frank Seitz  
Bradley Overton, Ch. Eng.

WFTM	...	250
WGAC	P	250
WGBB	3	100
WGCM	...	250
WGGM	P	250
WGRM	...	250
WHA1	M	250
WHBU	...	250
WHIZ	N	250
WIBU	...	250
WINN	...	100(.25)
WJBY	E	250
WJEJ	...	250
WJIM	B	250
WJLS	...	250
WJMC	D	250
WJTN	B	250
WJW	M	250
WKOK	...	250
WLOK	X	100
WMFG	C	250
WOCB	...	250
WOMT	...	100
WPAX	...	250
WPID	5	250
WRAL	M	250
WSAY	M	250
WSBC	G4	250
WSIX	M	250
WSNJ	...	250
WSOC	MNX	100(.25)
WTAX	...	100
WTMA	N	250
XEAT	...	250
XEE	...	50
XEFV	...	50

- a Ft. Myers, Fla.
- a Augusta, Ga.
- a Freeport, N. Y.
- a Gulfport, Miss.
- z Gainesville, Ga.
- a Greenwood, Miss.
- a Greenfield, Mass.
- a Anderson, Ind.
- a Zanesville, Ohio
- a Povnette, Wis.
- a Louisville, Ky.
- a Gadsden, Ala.
- a Hagerstown, Md.
- z Lansing, Mich.
- z Beckley, W. Va.
- z Rice Lake, Wis.
- a Jamestown, N. Y.
- a Akron, Ohio
- a Sunbury, Pa.
- a Lima, Ohio
- a Hibbing, Minn.
- a Hyannis, Mass.
- a Manitowoc, Wis.
- a Thomasville, Ga.
- a Petersburg, Va.
- a Raleigh, N. C.
- a Rochester, N. Y.
- a Chicago, Ill.
- a Nashville, Tenn.
- a Bridgeton, N. J.
- a Charlotte, N. C.
- a Springfield, Ill.
- a Charleston, S. C.
- a Parral, Chlh.
- a Durango, Dgo.
- a Juarez, Chlh.

- ....
- ....
- Harry H. Carman
- C. H. Dyess, Ch. Eng.
- ....
- C. A. Perkins, Ch. Eng.
- James L. Spates, Mgr.
- R. F. Fulwider, Ch. Eng.
- Ronald Woodyard, Mgr.
- ....
- Vernon Story, Ch. Eng.
- G. Harold Brewer
- Leo Yiha, Ch. Eng.
- Joe L. Smith, Jr.
- Walter McGenty
- ....
- Gene LaValle, Prog Dir.
- Paul L. Miller, Eng.
- S. L. Gladfelter, Ch. Eng.
- Charles Persons, Ch. Eng.
- ....
- Francis M. Kadow
- H. Wimpy
- ....
- R. E. Ritch
- Thurlow Greene
- Ed Jacker, Ch. Eng.
- James Turner
- ....
- L. L. Caudle, Ch. Eng.
- Edward Ring, Ch. Eng.
- D. M. Dradham, Ch. Eng.
- David G. Cervantes
- Alejandro O. Stevenson
- Dario Cordoba

**1220 kcs. (245.8 m.)**

KFKU	a	1000(5)
KPAC	...	500
KTMS	BEX	500
KTW	2	1000
KWSC	2	1000(5)
TIGPH	1225	1000
WCAD	D	500
WCAE	MR	5000
WDAE	C	5000
WGNV	D	250
WREN	aB	1000(5)
XEBL	...	500
XEDA	...	200
XETE	...	12

- a Lawrence, Kans.
- a Port Arthur, Texas
- z Santa Barbara, Calif.
- a Seattle, Wash.
- a Pullman, Wash.
- b San Jose, C. Rica
- a Canton, N. Y.
- a Pittsburgh, Pa.
- a Tampa, Fla.
- a Newburgh, N. Y.
- a Lawrence, Kans.
- z Mazatlan, Sin.
- z Mexico City, D. F.
- a Veracruz, Ver. C.

- Harold Ingham, Mgr.
- Joe Walters, Ch. Eng.
- Norman McLaughlin, Mgr.
- Dr. M. A. Matthews, Mgr.
- Kenneth Yeend, Mgr.
- Gonzalo Pinto H.
- Dr. Ward C. Priest, Ch. Eng.
- James Schultz, Ch. Eng.
- Joseph Smiley, Mgr.
- ....
- Vern Omer, Ch. Eng.
- Ignacio L. Salz
- Pedro Riestra Diaz
- Jose Rodriguez Lopez

**1230 kcs. (243.8 m.)**

CMJE	...	200
KGBX	NX	500
KGGM	C	1000
KYA	E	1000(5)
WALB	DP	1000
WFBM	CX	5000
WNAC	RX	1000 (5)
WOL	M	1000
XECA	...	250
XEG	X	250
XEHK	...	125
XEHR	...	250
XELK	...	100
XEQX	...	250

- z Camaquey, Cuba
- a Springfield, Mo.
- a Albuquerque, N. Mex.
- a San Francisco, Calif.
- z Albany, Ga.
- a Indianapolis, Ind.
- a Boston, Mass.
- a Washington, D. C.
- z Tampico, Tam.
- z Monterrey, N. L.
- z Guadalajara, Jal.
- a Puebla, Pue.
- a Zacatecas, Zac.
- a Los Mochis, Sin.

- Primo Alfonso Casares
- R. D. Foster, Mgr.
- Mike Hollander, Mgr.
- Frances Pike, Prog. Dir.
- ....
- ....
- N. N. Lyon, Ch. Technician
- Nicolas M. Picet
- Rodolfo Junco de la Vega
- ....
- ....
- ....
- ....

**1240 kcs. (241.8 m.)**

CJCB	F	1000
CMAB	...	200
CMHB	...	200
KFJZ	MX	1000
KGCU	...	250
KTFI	N	1000
WHBF	MX	1000
WKAQ	CXZ	1000
WXYZ	RX	1000(5)

- a Sydney, N. S.
- z Pinar del Rio, Cuba
- z Sancti Spiritus, Cuba
- a Fort Worth, Texas
- a Mandan, N. Dak.
- a Twin Falls, Idaho
- a Rock Island, Ill.
- a San Juan, Puerto Rico
- a Detroit, Mich.

- ....
- Francisco Martinez
- Ortello Ramlerz
- H. Sutton, Ch. Eng.
- ....
- John E. Gardner, Mgr.
- Robert Sinnott, Eng.
- A. P. Del Valle, Ch. Eng.
- Lynn Smeby, Ch. Eng.

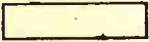
XEAD A 500  
 XEBC A 100  
 XEBU ... 50  
 XECWF ... 250  
 XEDF ... 100  
 XEDL ... 500  
 XEJS ... 100  
 XEKL A 500  
 XEKS ... 100  
 XEME ... 400  
 XEQA ... 450

**1250 kcs. (239.9 m.)**

CMBS ... 200  
 CMCB ... 200  
 CMKC ... 200  
 KFOX ... 1000  
 KIT FM 1000  
 KXOK XZ 1000  
 WAIR DM 250  
 WDSU BX 1000  
 WHBI Z 1000(2.5)  
 WKST D 1000  
 WMRO D 250  
 WNEW 2X 1000(5)  
 WTCN B 1000(5)  
 XEAI ... 500

z Aguascalientes Ags.  
 z Morella, Micho.  
 z Chihuahua, Chih.  
 z Cordoba, Ver. C.  
 a Nuevo Laredo, Tam.  
 z Navolua, Son.  
 z Cananea, Son.  
 b Leon, Gto.  
 z Saltillo, Coah.  
 z Merida, Yuc.  
 a Oaxaca, Oax.

....  
 Feliciano Lopez Islas  
 ....  
 Ruperto Villarreal  
 ....  
 ....  
 P. Villamil Cisero  
 ....



a Havana, Cuba  
 a Havana, Cuba  
 a Santiago, Cuba  
 a Long Beach, Calif.  
 a Yakima, Wash.  
 z St. Louis, Mo.  
 a Winston-Salem, N. C.  
 a New Orleans, La.  
 a Newark, N. J.  
 a New Castle, Pa.  
 z Aurora, Ill.  
 a New York, N. Y.  
 a Minneapolis, Minn.  
 z Mexico City, D. F.

....  
 Ramon Duran  
 Hal G. Nichols, Mgr.  
 James A. Murphy, Mgr.  
 Allen Franklin, Prog. Dir.  
 Geo. D. Walker, Mgr.  
 Fred Fabre, Ch. Eng.  
 Irwin R. Wolfe, Ch. Eng.  
 A. W. Graham  
 Leo S. Burch, Ch. Eng.  
 Max Weiner, Ch. Eng.  
 ....  
 Carmen Gutierrez

**1260 kcs. (238 m.)**

CMJO ... 200  
 KGVO C 1000(5)  
 KHSL M 500(1)  
 KOIL CEMX 1000(5)  
 KRGV N 1000  
 KUOA D 5000  
 VVOA EN 1000  
 WFVA D 250  
 WHIO CX 1000(5)  
 WHLD D 1000  
 WNBX CMXY 1000  
 WTGC C 1000(5)

a Ciego de Avila, Cuba  
 a Missoula, Mont.  
 a Chico, Calif.  
 a Omaha, Nebr.  
 a Weslaco, Texas  
 a Siloam Springs, Ark.  
 a Tucson, Ariz.  
 z Fredericksburg, Va.  
 a Dayton, Ohio  
 a Niagara Falls, N. Y.  
 a Springfield, Vt.  
 a Savannah Ga.

Bonifacio Ildefonso  
 A. J. Mosby, Mgr.  
 Harold Smithson, Mgr.  
 Don Searle, Mgr.  
 Ken L. Gibson, Mgr.  
 C. M. Books, Mgr.  
 Gil Maynier, Prog. Dir.  
 ....  
 Ernest Adams, Ch. Eng.  
 ....  
 Norman Steinbruch  
 Wm. B. Smart, Prog. Dir.



**1270 kcs. (236.1 m.)**

CMHD ... 200  
 KGCA DQZ 100  
 KOL M 1000(5)  
 KQVR C 1000  
 KWLC DZ 100  
 WASH aDN 500  
 WFBR R 1000(5)  
 WJDX R 1000(5)  
 WOOD aN 500  
 WWNV DP 500  
 XESM ... 100  
 XEXB A 250  
 XEXE ... 17

d Calbarien, Cuba  
 a Decorah, Iowa  
 a Seattle, Wash.  
 a Colorado Springs, Colo.  
 a Decorah, Iowa  
 a Grand Rapids, Mich.  
 a Baltimore, Md.  
 a Jackson, Miss.  
 a Grand Rapids, Mich.  
 z Watertown, N. Y.  
 z Mexico City, D. F.  
 a Jalapa, Ver. C.  
 z Taxcoco D F

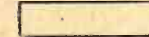
Manuel Alvarez M.  
 Elmer Pederson, Mgr.  
 Charles Greenley  
 Hugh Terry, Mgr.  
 Dr. O. J. H. Preuss  
 Sandy Mek, Prog. Dir.  
 Wm. Q. Ranft, Ch. Eng.  
 Percy Root, Ch. Eng.  
 Sandy Meek, Prog. Dir.  
 ....  
 ....  
 ....

**1280 kcs. (234.2 m.)**

CMKO ... 200  
 KFBB CX 1000(5)  
 KLS X 250  
 WCAM Z 500  
 WCAP Z 500  
 WDDO CX 1000(5)  
 WIBA NX 1000(5)  
 WORC CX 500  
 WRR MX 500  
 WTNJ Z 500  
 XEKR ... 100  
 XEMX A 100  
 XEAP P 1000(5)

z Holguin, Cuba  
 a Great Falls, Mont.  
 a Oakland, Calif.  
 a Camden, N. J.  
 a Asbury Park, N. J.  
 b Chattanooga, Tenn.  
 a Madison, Wis.  
 a Worcester, Mass.  
 a Dallas, Texas  
 a Trenton, N. J.  
 z Mexico City, D. F.  
 z Mexico City, D. F.  
 z Indianapolis, Ind.

Manuel Angulo Faran  
 Jessie Jacobson, Mgr.  
 S. W. Warner, Mgr.  
 R. L. Horn, Prog. Dir.  
 ....  
 Frank S. Lane, Mgr.  
 M. F. Chapin, Ch. Eng.  
 M. P. Stanton  
 Chas Jordan, Prog Dir  
 E. P. Knowles, Ch. Eng.  
 ....  
 Alfonso Avalos  
 ....



**1290 kcs. (232.4 m.)**

CJHC P 1000  
 CMBD ... 5000  
 CMBF ... 5000  
 KDYL R 1000(5)  
 KLCN D 100

z Halifax, N. S.  
 z Havana, Cuba  
 z Havana, Cuba  
 a Salt Lake City, Utah  
 a Blytheville, Ark.

S. S. Fox, Mgr.  
 C. L. Lintzenich, Mgr.

KTRH	C	1000(5)
WATR	...	250
WEBC	N	1000(5)
WJAS	C	1000(5)
WJHP	...	250
WNBZ	D	100
WNEB	X	1000(.25)

**1300 kcs. (230.6 m.)**

KALE	M	1000(5)
KFAC	...	1000
KFH	CX	1000(5)
WBBR	2	1000
WEVD	2	1000
WFBC	NX	1000(5)
WHAZ	2	1000
WHRL	...	250(1)
WLPL	...	1000

**1310 kcs. (228.9 m.)**

CFGP	...	100
CHCK	...	50
CJLS	F	100
CKCV	F	100
CMKE	?	...
KARM	C	250
KBND	...	250
KCKN	E	250
KCRJ	E	250
KFPL	...	100(.25)
KFYO	M	250
KGEZ	...	100
KGFW	...	250
KHUB	...	250
KMYR	P	100(.25)
KOCY	...	250
KOME	EM	250
KPDN	...	100
KRJJ	P	250
KRMD	...	250
KROC	EN	250
KRRV	DMXZ	250
KSRO	...	250
KSUB	...	100
KUIN	...	250
KVIC	...	250
KVOL	...	250
KVOX	E	250
KVSF	C	100
KWFC	...	250
KWLM	P	100
KWOC	...	250
KWOS	...	250
KXRO	M	250
TGI	...	...
WAML	...	250
WBRE	N	250
WBRK	M	250
WBRW	...	250
WCLS	...	100
WCMI	M	250
WDAK	...	250
WDMJ	...	250
WBRW	B	250
WEMP	...	250
WEXL	...	50
WFBG	R	250
WFDF	BXZ	100
WFHR	P	100(.25)
WFIG	...	100(.25)
WGAU	...	250
WGH	K	250
WGTM	...	250
WHAT	4	100
WINX	P	250
WIZE	P	100
WJPF	...	250
WJPR	...	250
WLAK	N	250
WLAV	...	250

- a Houston, Texas
- a Waterbury, Conn.
- a Duluth, Minn.
- a Pittsburgh, Pa.
- a Jacksonville, Fla.
- a Saranac Lake, N. Y.
- a San Juan, Puerto Rico

- a Portland, Ore.
- a Los Angeles, Calif.
- a Wichita, Kans.
- a Brooklyn, N. Y.
- a New York, N. Y.
- a Greenville, S. C.
- a Troy, N. Y.
- a Sheboygan Wis.
- a Minneapolis, Minn.

- a Grande Prairie, Alta.
- a Charlottetown, P. E. I.
- a Yarmouth, N. S.
- a Quebec, P. Q.
- a Manzanillo, Cuba
- a Fresno, Calif.
- a Bend, Ore.
- a Kansas City, Kans.
- a Jerome, Ariz.
- f Dublin, Texas
- a Lubbock, Texas
- a Kalispell, Mont.
- a Kearney, Nebr.
- a Watsonville, Calif.
- a Denver, Colo.
- a Oklahoma City, Okla.
- a Tulsa, Okla.
- a Pampa, Texas
- z Miles City, Mont.
- a Shreveport, La.
- a Rochester, Minn.
- a Sherman, Texas
- a Santa Rosa, Calif.
- a Cedar City, Utah
- a Grants Pass, Ore.
- a Victoria, Texas
- a Lafayette, La.
- a Moorhead, Minn.
- a Santa Fe, N. Mex.
- a Hot Springs, Ark.
- z Willmar, Minn.
- a Poplar Bluff, Mo.
- a Jefferson City, Mo.
- a Aberdeen, Wash.
- d Guatemala City, Guat.
- a Laurel, Miss.
- a Wilkes-Barre, Pa.
- a Pittsfield, Mass.
- z Welch, W. Va.
- a Joliet, Ill.
- a Ashland, Ky.
- a West Point, Ga.
- a Marquette, Mich.
- a Buffalo, N. Y.
- a Milwaukee, Wis.
- a Royal Oak, Mich.
- a Altoona, Pa.
- a Flint, Mich.
- z Wisconsin Rapids, Wis.
- a Sumter, S. C.
- a Athens, Ga.
- a Newport News, Va.
- a Wilson, N. C.
- a Philadelphia, Pa.
- z Washington, D. C.
- z Springfield, Ohio
- a Herrin, Ill.
- z Greenville, Miss.
- z Lakeland, Fla.
- a Grand Rapids, Mich.

B. F. Orr, Mgr.  
 ....  
 Chas. Persons, Ch. Eng.  
 Walter McCoy, Ch. Eng.  
 Carlyle Wright, Mgr.  
 Albert J. Kanze, Ch. Eng.  
 Juan Piza

Dick Rand, Prog. Dir.  
 E. Tyler, Log Dept.  
 Russell L. Lowe, Mgr.  
 ....  
 Frank Blair, Prog. Dir.  
 H. D. Harris, Ch. Eng.  
 Herbert Mayer, Ch. Eng.  
 ....

....  
 Laurie L. Smith  
 ....  
 Lou Keplinger, Mgr.  
 ....  
 Ralph Nelson, Prog. Dir.  
 Irvin Faulkner, Ch. Op.  
 C. B. Baxter, Mgr.  
 De Witt Landis, Mgr.  
 Donald Treloar  
 Clark Standiford, Mgr.  
 John Bennett, Mgr.  
 F. W. Meyer  
 M. H. Bonebrake, Mgr.  
 ....  
 S. L. Patterson, Mgr.  
 ....  
 G. V. Wilson, Mgr.  
 F. C. Clarke, Ch. Eng.  
 Tom Spellman, Ch. Eng.  
 W. R. Nichols, Ch. Eng.  
 Wayne Boothe, Annc'r.  
 ....  
 Geo. H. Thomas, Mgr.  
 M. M. Marget, Mgr.  
 ....  
 Randall Jessee, Mgr.  
 R. L. Rose, Mgr.  
 Harry R. Spence, Mgr.  
 Col. Eduardo Perez F.  
 R. V. DeGruy, Mgr.  
 Louis G. Baltimore  
 Norman H. Blake, Ch. Eng.  
 ....  
 E. Hayes, Ch. Eng.  
 Paul W. Holton, Eng.  
 ....  
 Albert Zink, Mgr.  
 Roy Host, Ch. Eng.  
 Kirk Knight, Prog. Dir.  
 Roy Thompson, Eng.  
 F. S. Loeb, Mgr.  
 ....  
 J. Samuel Brody  
 A. Lynne Brannen  
 Edward Bishop, Gen. Mgr.  
 Jack Hudson, Ch. Eng.  
 Julius Geise, Ch. Eng.  
 ....  
 Powell Hunter, Ch. Eng.  
 John R. Pepper  
 ....

WLBC ... 250  
 WLBH ... 250  
 WLNH M 250  
 WMBO ... 250  
 WMFF ... B 250  
 WNBH MX 100(.25)  
 WRAW N 250  
 WROL NXZ 250  
 WSAJ G3 100  
 WSAV N 250  
 WSGN BEM 250  
 WSJS MN 250  
 WSOY ... 250  
 WSTV GP3 250  
 WTAL ... 100(.25)  
 WTEL 4 100  
 WTJS XZ 250  
 WTRC ... 250  
 XEAG ... 250  
 XEFW ... 300  
 XETB ... 500  
 XEX ... 500  
 1350 P 250

**1320 kcs. (227.1 m.)**

CMHQ ... 200  
 KGHF B 500  
 KGM BCMZX 1000  
 KID ... 500(1)  
 KRNT CX 1000(5)  
 WADC C 5000  
 WORK N 1000  
 WSMB R 5000

**1330 kcs. (225.4 m.)**

CMJL ... 200  
 KGB M 1 000  
 KMO M 1000  
 KRIS N 500  
 KSCJ NX 1000(5)  
 WDRC C 5000  
 WSAI MNX 1000(5)  
 WTAQ CX 1000(5)  
 XEBO ... 1000

**1340 kcs. (223.7 m.)**

KDTH P 1000  
 KFRO ... 1000  
 KGIR EN 5000  
 KGNO ... 250(1)  
 WCOA N 500(1)  
 WFEA MN 500(1)  
 WFNC D 250  
 WSPD R 5000  
 WPAB ... 1000  
 XEAP ... 50  
 XEBJ ... 100  
 XEBS ... 200  
 XEBW ... 250  
 XEDH ... 200  
 XEFC ... 100  
 XELW ... 250

**1350 kcs. (222.1 m.)**

CMC ... 200  
 CMCA ... 200  
 CMKB ... 200  
 KIDO N 1000(2.5)  
 KBWD P 500  
 KTSM N 500  
 KWK BM 1000(5)  
 WAWZ 2 1000  
 WBNX 2 5000  
 WMBG R 1000(5)  
 P 500

**1360 kcs. (220.4 m.)**

CMJH ... 200

a Muncie, Ind.  
 a Bowling Green, Ky.  
 a Laconia, N. H.  
 a Auburn, N. Y.  
 a Plattsburg, N. Y.  
 a New Bedford, Mass.  
 a Reading, Pa.  
 a Knoxville, Tenn.  
 a Grove City, Pa.  
 a Savannah, Ga.  
 a Birmingham, Ala.  
 a Winston-Salem, N. C.  
 a Decatur, Ill.  
 z Steubenville, Ohio  
 a Tallahassee, Fla.  
 a Philadelphia, Pa.  
 a Jackson, Tenn.  
 z Elkhart, Ind.  
 a Cordoba, Ver. C.  
 a Tampico, Tam.  
 a Torreon, Coah.  
 a Monterrey, N. L.  
 z Washington, D. C.

z Santa Clara, Cuba  
 a Pueblo, Colo.  
 a Honolulu, Hawaii  
 a Idaho Falls, Idaho  
 a Des Moines, Iowa  
 a Tallmadge, Ohio  
 a York, Pa.  
 a New Orleans, La.

z Nuevitas, Cuba  
 a San Diego, Calif.  
 a Tacoma, Wash.  
 a Corpus Christi, Tex.  
 a Sioux City, Iowa  
 a Hartford, Conn.  
 a Cincinnati, Ohio  
 a Green Bay, Wis.  
 a Irapuato, Gto.

z Dubuque, Iowa  
 a Longview, Tex.  
 a Butte, Mont.  
 b Dodge City, Kans.  
 a Pensacola, Fla.  
 a Manchester, N. H.  
 a Fayetteville, N. C.  
 a Toledo, Ohio  
 a Ponce, Puerto Rico  
 z Obregon, Son.  
 a Victoria, Tam.  
 z Mexico City, D. F.  
 a Chihuahua, Chih.  
 z Villa Acuna, Coah.  
 a Merida, Yuc.  
 z Guadalajara, Jal.

a Havana, Cuba  
 a Havana, Cuba  
 z Puerto Padre, Cuba  
 a Boise, Idaho  
 z Brownwood, Texas  
 a El Paso, Tex.  
 a St. Louis, Mo.  
 a Zarephath, N. J.  
 a New York, N. Y.  
 a Richmond, Va.  
 z Brownwood, Tex.

d Ciego de Avilla, Cuba

Donald A. Burton

Kenneth Taylor, Ch. Eng.  
 Herbert House, Ch. Eng.  
 John Nazak, Ch. Eng.  
 I. Vermilya  
 M. Leonard Savage  
 L. Strunk  
 Herbert Harmon, Mgr.

Phil Hedrick

Richard Kingston, Prog. Dir.

B. C. Rummell, Ch. Eng.  
 R. R. Baker, Mgr.  
 Diodoro Zuniga

Aurelio G. Zaragoza

J. H. McGill, Pub. Dir.  
 Webley Edwards, Mgr.  
 Jack Duckworth, Mgr.  
 Edmund Linehan, Prog. Dir.  
 Robert Wilson  
 J. E. Mathiot, Ch. Eng.  
 H. G. Nebe, Ch. Eng.

David R. Young, Prog. Dir.  
 Carl E. Haymond  
 T. Frank Smith, Mgr.  
 C. W. Corkhill, Mgr.  
 Italo Martino, Ch. Eng.  
 Bill Bailey, Pub. Dir.

Alfonso Martinez

Harold C. Johnson, Mgr.  
 E. B. Craney, Mgr.  
 N. C. Peterson, Mgr.

Emilio Manzanilla  
 Fernando Elizalde  
 Maria Remedios Delgado

Vincente Hernandez  
 Julio Molina Font

J. M. Gonzalez, Dir.

C. G. Phillips, Mgr.

Karl O. Wyler, Mgr.  
 Clarence Cosby, Mgr.

Wifred H. Wood  
 Brown County Brdcstg. Co.

Luis Marauri H.

KCRC	EM	250
KGFR	...	1000
KLPM	...	1000
KSLM	M	1000
WCSC	C	500 (1)
WFBL	CX	1000(5)
WGES	2	500(1)
WQBC	D	1000
WSBT	C2Z	500

1400  
1370 kcs. (218.8 m.)

CFAR	...	100
CFOS	...	100
CJOC	F	100
CKCW	F	100
CKRN	...	250
CMGE	...	200
HIZ	...	75
KELD	...	250
KENO	P	250
KEVR	3	100
KFGO	D	100
KFPW	...	250
KFVS	...	250
KGFL	4	100
KGFL	...	100
KICA	...	100
KIUN	...	100
KIUP	...	250
KLUP	...	250
KMAC	5	250
KOBH	...	250
KOH	NXZ	500
KOKO	...	100
KONO	5	250
KORN	...	250
KRE	...	250
KRKO	3X	30
KRMC	...	250
KTEM	M	250
KTOK	EMN	250
KTSW	M	250
KTUC	CE	250
KUJ	XZ	100
KVFD	G	250
KVGB	...	250
KVRS	...	250
KWLK	...	250
KWYO	...	250
KYAN	P	250
WABY	BM	100(.25)
WAGF	D	250
WARM	...	250
WATL	M	250
WATW	...	100
WBLK	N	250
WBNY	2	250
WBTH	...	250
WBTM	...	100(.25)
WCBI	...	250
WCBM	...	250
WCNC	...	250
WCOS	...	250
WDAS	...	250
WDEF	P	250
WDWS	...	250
WEOA	C	250
WFOR	...	100
WFTL	...	250
WGBR	...	250
WGL	N	250
WGRC	M	250
WHBQ	...	100
WHDF	...	250
WHKY	...	250
WHLB	C	250
WHLS	...	250
WHUB	...	250
WHYN	P	250

- a Enid, Okla.
- a Long Beach, Calif.
- a Minot, N. Dak.
- a Salem, Ore.
- a Charleston, S. C.
- a Syracuse, N. Y.
- a Chicago, Ill.
- a Vicksburg, Miss.
- a South Bend, Ind.

- Wm. Butterfield, Annc'r.
- Jay Tapp, Ch. Eng.
- Richard Schmidt, Mgr.
- Clyde Wiegand, Ch. Eng.
- J. M. Weaver, Ch. Eng.
- M. Wilcox
- ....
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- ....

- a Flin Flon, Man.
- z Owen Sound, Ont.
- a Lethbridge, Alta.
- a Moncton, N. B.
- z Rouyn, P. Q.
- a Cardenas, Cuba
- z Trujillo, D. R.
- z El Dorado, Ark.
- z Las Vegas, Nev.
- a Seattle, Wash.
- a Boone Iowa
- a Fort Smith, Ark.
- a Cape Girardeau, Mo.
- a Roswell, N. Mex.
- a San Angelo, Texas
- a Clovis, N. Mex.
- a Pecos, Texas
- a Durango, Colo.
- a Galveston, Tex.
- a San Antonio, Tex.
- a Rapid City, S. Dak.
- a Reno, Nev.
- a La Junta, Colo.
- a San Antonio, Tex.
- a Fremont, Nebr.
- a Berkeley, Calif.
- a Everett, Wash.
- a Jamestown, N. Dak.
- a Temple, Texas
- a Oklahoma City, Okla.
- a Emporia, Kans.
- a Tucson, Ariz.
- a Walla Walla, Wash.
- a Fort Dodge, Iowa
- a Great Bend, Kans.
- a Rock Springs, Wyo.
- a Longview, Wash.
- a Sheridan, Wyo.
- z Cheyenne, Wyo.
- a Albany, N. Y.
- a Dothan, Ala.
- a Scranton, Pa.
- a Atlanta, Ga.
- a Ashland, Wis.
- a Clarksburg, W. Va.
- a Buffalo, N. Y.
- z Williamson, W. Va.
- a Danville, Va.
- a Columbus, Miss.
- a Baltimore, Md.
- z Elizabeth City, N. C.
- a Columbia, S. C.
- a Philadelphia, Pa.
- z Chattanooga, Tenn.
- a Champaign, Ill.
- a Evansville, Ind.
- a Hattiesburg, Miss.
- a Ft. Lauderdale, Fla.
- a Goldsboro, N. C.
- a Fort Wayne, Ind.
- a New Albany, Ind.
- a Memphis, Tenn.
- a Calumet, Mich.
- a Hickory, N. C.
- a Virginia, Minn.
- a Port Huron, Mich.
- a Cookeville, Tenn.
- z Holyoke, Mass.

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- J. O. Tardif, Mgr.
- Genero Sebater
- Frank Hatton
- F. E. Bolls
- Arthur Dalley, Mgr.
- ....
- ....
- ....
- E. Whitmore, Mgr.
- Earle Yates, Mgr.
- Chas. C. Alsup, Mgr.
- Jack Hawkins, Mgr.
- Ray Beckner, Mgr.
- Lawrence Yates, Mgr.
- Howard Davis, Mgr.
- Robert Dean, Mgr.
- Merle Snider
- Leonard Wilson
- ugene Roth, Mgr.
- ....
- Arthur Westlund, Mgr.
- Lee Mudgett
- Frank Gillespie Prog. Dept.
- Burton Bishop, Mgr.
- Joseph Lee, Mgr.
- K. W. Trimble, Gen. Mgr
- Frank Howe, Mgr.
- H. E. Studebaker, Mgr.
- ....
- Ken Nielson, Mgr.
- ....
- H. W. Siebert, Mgr.
- ....
- Harold Smith, Mgr.
- Julian Smith, Mgr.
- ....
- ....
- Roy Albertson
- ....
- Birney Imes
- ....
- Lewis Hilland, Ch. Eng.
- ....
- Harold Davis, Prog. Dir.
- ....
- ....
- Tom M. Bryan
- ....
- Jack Gardner, Ch. Eng.
- ....
- ....
- Vernon Baumgartner
- Angus Pfaff, Mgr.
- M. L. Medley
- Hampden-Hampshire Corp.



**WIBM** B 250  
**WISE** N 250  
**WJAC** R 250  
**WJHO** ... N 100(.25)  
**WKPT** Sx 250  
**WLLH** MS 10-100  
**WLLH** MS 250  
**WMAN** ... 250  
**WMBR** C 250  
**WMFD** ... 100(.25)  
**WMGA** ... 250  
**WMIN** ... 250  
**WMSL** E 250  
**WOC** C 250  
**WORD** C 250  
**WPAY** X 100  
**WRAC** ... 250  
**WRDO** MN 100  
**WRJN** ... 250  
**WSAU** ... 250  
**WSLB** ... 250  
**WSVS** G2 50  
**WTCM** P 250  
**WTSP** ... 250  
**XECZ** ... 100  
**XEI** ... 125  
**XELZ** ... 100

a Jackson, Mich.  
 z Asheville, N. C.  
 a Johnstown, Pa.  
 a Opelika, Ala.  
 a Kingsport, Tenn.  
 a Lawrence, Mass.  
 a Lowell, Mass.  
 a Mansfield, Ohio  
 a Jacksonville, Fla.  
 z Wilmington, N. C.  
 z Moultrie, Ga.  
 a St. Paul, Minn.  
 a Decatur, Ala.  
 a Davenport, Iowa  
 a Spartanburg, S. C.  
 a Portsmouth, Ohio  
 a Williamsport, Pa.  
 a Augusta, Maine  
 a Racine, Wis.  
 a Wausau, Wis.  
 z Ogdensburg, N. Y.  
 z Buffalo, N. Y.  
 z Traverse City, Mich.  
 z St. Petersburg, Fla.  
 z San Luis Potosi, S. L. P.  
 a Morella, Micho.  
 z Mexico City, D. F.

W. H. Dunn, Prog. Dir.  
 Harold H. Thomas  
 Robert Donahue  
 ....  
 ....  
 Robt. Wilds, Ch. Eng.  
 ....  
 H. B. Greene, Ch. Eng.  
 Richard Dunlea  
 Frank R. Pidcock  
 ....  
 Allen R. Richter  
 ....  
 Maurice L. Myers  
 ....  
 J. Mitchell  
 ....  
 ....  
 H. C. Bleda  
 ....  
 Zeferino Z. Jimenez  
 Carlos Gutierrez  
 Maria Gardena de Zetina

1410  
**1380 kcs. (217.3 m.)**

**KERN** BE 1000  
**KQV** ... 1000  
**WALA** CX 500(1)  
**WING** NX 250(.5)  
**WKBH** C 1000  
**WNBC** B 1000

a Bakersfield, Calif.  
 a Pittsburgh, Pa.  
 a Mobile, Ala.  
 a Dayton, Ohio  
 a La Crosse, Wis.  
 a New Britain, Conn.

Robert Stoddard, Mgr.  
 J. J. Laux, Mgr.  
 W. O. Pape, Mgr.  
 M. S. Gilkerson, Ass't. Eng.  
 ....  
 Rogers B. Holt, Ch. Eng.

1420  
**1390 kcs. (215.7 m.)**

**CMJC** ... 200  
**KABR** X 500(1)  
**KLRA** C 1000(5)  
**KRLC** Z 250  
**WFCI** P 1000  
**WHK** KBMX 1000(5)  
**WQDM** AD 1000  
**XEM** ... 500

z Camaguoy, Cuba  
 a Aberdeen, S. Dak.  
 a Little Rock, Ark.  
 a Lewiston, Idaho  
 z Pawtucket, R. I.  
 a Cleveland, Ohio  
 f St. Albans, Vt.  
 z Chihuahua, Chih.

Miguel Guillen Perez  
 W. L. Dean, Prog. Dir.  
 S. C. Vinsonhaler, Mgr.  
 Donald H. Wike, Mgr.  
 E. L. Gove, Tech. Sup.  
 ....  
 ....

1430  
**1400 kcs. (214.2 m.)**

**CMAR** ... 200  
**CMKR** ... 200  
**KLO** BEM 5000  
**KTUL** C 5000  
**TGX** ... ..  
**WARD** 2 500  
**WBBC** 2 500  
**WIRE** MR 5000  
**WLTH** 2 500  
**WVFW** 2 500  
**XEA** ... 250  
**XEAJ** ... 100  
**XEAU** A 250  
**XEDE** ... 100  
**XEDS** ... 250  
**XEPP** ... 150

z Pinar del Rio, Cuba  
 z Santiago de Cuba  
 a Dgden, Utah  
 a Tulsa, Okla.  
 d Guatemala City, Guat.  
 a Brooklyn, N. Y.  
 a Brooklyn, N. Y.  
 a Indianapolis, Ind.  
 a New York, N. Y.  
 a Brooklyn, N. Y.  
 z Campeche, Cam.  
 z Navojoa, Son.  
 z Tijuana, B. Cfa.  
 z Torreon, Coah.  
 z Mazatan, Sin.  
 z Orizaba, Ver. Ca.

....  
 Jaime Nadal  
 Paul R. Heitmeyer  
 W. C. Gillespie  
 ....  
 Aron Kronenberg  
 Bert Child, Prog. Dir.  
 Earl Lewis, Ch. Eng.  
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 ....

1440  
**1410 kcs. (212.5 m.)**

**CKFC** 2 50  
**CKMO** 2 100  
**CMBY** ... 200  
**CMCQ** ... 200  
**KFJM** ... 500(1)  
**KGNC** N 1000(2.5)  
**KMED** N 1000  
**WAAB** EM 1000  
**WBCM** ... 500(1)

a Vancouver, B. C.  
 a Vancouver, B. C.  
 a Havana, Cuba  
 a Havana, Cuba  
 a Grand Forks, N. Dak.  
 a Amarillo, Texas  
 b Medford, Ore.  
 a Boston, Mass.  
 a Bay City, Mich.

....  
 Pedro Marti, Ch. Eng.  
 Andres Martinez  
 Dalton Le Masurier, Mgr.  
 O. L. Taylor, Mgr.  
 Mrs. W. J. Virgin  
 E. A. Donaher  
 ....

1450

1420 kcs. (211.1 m.)



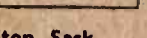
WHIS	...	500(1)
WROK	M	500(1)
WSFA	CE	500(1)
CBY	F	100
CHLN	...	100
CHNB	P	100
CKCA	...	100(.25)
CKLN	F	100
CMJP	F	100
KABC	...	200
KATE	M	250
KBPS	E	250
KCMC	4	100
KDNT	M	250
KEUB	EM	250
KFAM	EN	250
KFCB	P	100(.25)
KFIZ	E	100
KFMB	P	250
KFUN	P	250
KGFF	EM	250
KGIW	3	100
KGLU	EN	250
KIDW	3	100
KLBM	...	250
KMYC	...	100
KORE	M	250
KRBC	M	250
KRBM	EN	250
KRIC	...	250
KRLH	...	100
KSAN	...	250
KTRI	...	250
KVAK	...	100
KWAL	...	250
KWBG	X	100
KXL	4	250
WACO	CM	250
WAGM	...	100
WAOV	P	100
WAPQ	NXZ	250
WAZL	M	250
WBML	P	250
WCBS	N	250
WCHV	...	250
WEED	...	250
WELL	BX	100
WFMJ	...	250
WFGP	...	100(.25)
WGNC	...	250
WGOV	...	250
WGPC	X	100
WHDL	...	250
WHFC	...	250
WHMA	...	250
WILM	...	250
WJMS	...	250
WKIP	...	250
WLAP	M	250
WLEU	B	250
WLPM	...	250
WMAS	C	250
WMBC	...	250
WMBH	...	250
WMSB	XZ	250
WMFJ	N	250
WMSD	X	250
WMVA	P	100(.25)
WMWH	P	250
WNAB	P	250
WNOE	...	250
WPAD	...	250
WRAR	CX	100

a	Bluefield, W. Va.
a	Rockford, Ill.
a	Montgomery, Ala.
a	Toronto, Ont.
z	Three Rivers, P. O.
z	North Battleford, Sask.
a	Kenora, Ont.
a	Nelson, B. C.
a	Moron, Cuba
a	San Antonio, Texas
a	Albert Lea, Minn.
a	Portland, Ore.
a	Texarkana, Texas
a	Denton, Texas
a	Price, Utah
a	St. Cloud, Minn.
z	Cheyenne, Wyo.
a	Fond du Lac, Wis.
z	San Diego, Calif.
z	Las Vegas, Nev.
a	Shawnee, Okla.
a	Alamosa, Colo.
a	Safford, Ariz.
a	Lamar, Colo.
z	La Grande, Ore.
a	Marysville, Calif.
a	Eugene, Ore.
a	Abilene, Texas
a	Bozeman, Mont.
z	Beaumont, Texas
a	Midland, Texas
a	San Francisco, Calif.
f	Sioux City, Iowa
a	Atchison, Kans.
a	Wallace, Idaho
a	Hutchinson, Kans.
b	Portland, Ore.
b	Waco, Texas
a	Presque Isle, Maine
z	Vincennes, Ind.
a	Chattanooga, Tenn.
a	Hazleton, Pa.
z	Macona, La.
a	Springfield, Ill.
a	Charlottesville, Va.
a	Rocky Mount, N. C.
a	Battle Creek, Mich.
a	Youngstown, Ohio
a	Atlantic City, N. J.
z	Gastonia, N. C.
a	Valdosta, Ga.
a	Albany, Ga.
a	Olean, N. Y.
a	Cicero, Ill.
a	Anniston, Ala.
a	Wilmington, Del.
a	Ironwood, Mich.
a	Poughkeepsie, N. Y.
a	Lexington, Ky.
a	Erie Pa.
a	Suffolk, Va.
a	Springfield, Mass.
a	Detroit, Mich.
a	Joplin, Mo.
a	Uniontown, Pa.
a	Daytona Beach, Fla.
a	Muscle Shoals City, Ala.
z	Martinsville, Va.
z	Augusta, Ga.
z	Bridgeport, Conn.
a	New Orleans, La.
a	Paducah, Ky.
a	Parkersburg, W. Va.

Edw. L. Ketts
....
....
Leon Trepanier, Ch. Eng.
....
Hume Lethbridge, Mgr.
Cesar Canals
Chas. Belfi, Prog. Dir.
Geo. Russell, Prog. Dir.
Wm. Allingham, Mgr.
W. T. Casper, Prog. Dir.
Jack Wallace, Prog Dir.
Sam G. Weiss
Geo. Bairey, Mgr.
....
Lynn B. Fairbanks, Mgr.
....
Las Vegas Brdcstg. Co., Inc.
Ross Porter, Mgr.
E. L. Allen
....
Sherrill Ellsworth, Mgr.
Paul E. Walden, Ch. Eng.
Leon Stauffer, Ch. Eng.
Frank Hill, Mgr.
Max Bentley, Mgr.
....
....
Thomas Belzel, Mgr.
S. H. Paterson, Mgr.
Dietrich Dirks, Mgr.
....
C. Howarth and C. Berger
W. B. Greenwald, Mgr.
T. W. Symons, Jr. Mgr.
James W. Pate, Mgr.
R. W. MacIntosh Mgr.
Howard N. Greenlee, Mgr.
R. G. Patterson, Mgr.
Edward Belsel, Prog. Dir.
....
R. L. Ashenfelter, Ch. Eng.
....
Wm. Avera Wynne
....
Gov. E. D. Rivers
....
F. C. Todd, Mgr.
....
....
Edwin Mullinax
....
....
Winston L. Clark, Mgr.
....
Jack Siegel
....
E. H. Clark, Ch. Eng.
....
Chas. McClane, Eng.
W. Wright Esch
....
....
W. Montgomery Harison
....
....
....
....

1430

1430 kcs. (209.7 m.)



CJGX	F	1000
CMKZ	...	200

a	Yorkton, Sask.
z	Palma Soriano, Cuba

A. L. Garside, Mgr.
Joaquin Venero Obregon

KGNF D 1000  
 WPRP XZ 250  
 WSLI ... 250  
 WSPB ... 250  
 WWDC P 250  
 KINY 1000  
 KSO BM 1000(5)  
 WBNS C C 1000(5)  
 WHEC C C 500(1)  
 WHP C C 1000(5)  
 WMPS B 500(1)  
 WOKO CK 500(1)  
 XFRH ... 500

1470  
**1440 kcs. (208.2 m.)**

CKGB F 1000  
 KDFN X 500  
 KELA M 1000  
 KXYZ BM 1000  
 WBIG C 1000(5)  
 WCBA a 500  
 WMBD C C 1000(5)  
 WSAN aN 500  
 XEFL ... 1000

1480  
**1450 kcs. (206.8 m.)**

CFCT ... 500  
 CHGS F 50  
 CMHM ... 200  
 HRN ... 500  
 KCMO ... 1000(5)  
 KG CX ... 1000  
 KIEM M 500(1)  
 KTBS NZ 1000  
 TGO ... 200  
 WAGA B 500(1)  
 WGAR C 1000(5)  
 WHOM ... 500(1)  
 WSAR M 1000  
 XEDJ ... 100  
 XFF ... 100  
 XERK ... 100  
 XEY ... 250

1500  
**1460 kcs. (205.4 m.)**

CMKF ... 250  
 KSTP R 50000  
 WJW C 50000

1510  
**1470 kcs. (204 m.)**

CMEX ... 200  
 H18Q 1475 100  
 KGA BM 5000  
 WLAC 5000  
 WMEX ... 5000

1520  
**1480 kcs. (202.6 m.)**

CMHX ... 200  
 KOMA C 5000  
 WHIP D 5000  
 WKBW CM 5000

1530  
**1490 kcs. (201.2 m.)**

CMKQ E 1000  
 KFBK BE 10000  
 WCKY C 50000  
 XECH ... 250  
 XEDR ... 100  
 XEJR ... 100

**1500 kcs. (199.9 m.)**

CJIC P 100  
 KAWM ... 100

a North Platts, Nebr.  
 a Ponce, Puerto Rico  
 a Jackson, Miss.  
 a Sarasota Fla  
 z Washington, D. C.  
 z Juneau, Alaska  
 a Des Moines, Iowa  
 a Columbus, Ohio  
 a Rochester, N. Y.  
 a Harrisburg, Pa.  
 a Memphis, Tenn.  
 a Albany, N. Y.  
 z Mexico City, D. F.

a Timmins, Ont.  
 a Casper, Wyo.  
 a Centralia, Wash.  
 a Houston, Texas  
 a Greensboro, N. C.  
 a Allentown, Pa.  
 a Peoria, Ill.  
 a Allentown, Pa.  
 a Chihuahua, Chlh.

a Victoria, B. C.  
 f Summerside, P. E. I.  
 z Cienfuegos, Cuba  
 b Tegucigalpa, Hond.  
 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.  
 z Magdalena, Son.  
 a Juarez Chlh.  
 z Tepic, Nay.  
 z San Luis Rio Colonia,

z Holguin, Cuba  
 z St. Paul, Minn.  
 a Washington, D. C.

z Havana, Cuba  
 z Trujillo, D. R.  
 a Spokane, Wash.  
 a Nashville, Tenn.  
 a Boston, Mass.

a Cienfuegos, Cuba  
 a Oklahoma City, Okla.  
 z Hammond, Ind.  
 a Buffalo, N. Y.

z Santiago de Cuba  
 a Sacramento, Calif.  
 a Cincinnati, Ohio  
 z Toluca, Mex.  
 z Guaymas Son.  
 z Parral, Chlh.

a Sault Ste. Marie, Ont.  
 a Gallup, N. Mex.

J. B. Eaves, Eng.  
 Julio M. Conesa  
 G. G. Benson, Ch. Eng.

Capital Brdcstg. Co.  
 C. B. Arnold, Mgr.  
 Edmund Linehan, Prog. Dir.

R. S. Duncan, Ch. Eng.

H. E. Smith

R. H. Thomson

J. Elroy McCaw, Mgr.  
 T. Frank Smith, Mgr.  
 Edney Ridge

F. A. Giles, Tech. Dir.  
 Geo. G. Snyder Prog. Dir.  
 Feliciano Lopez Istas

... T. Holman  
 Jose R. Feminias

Lee Roberts, Prog. Dir.  
 Milton J. Severson, Mgr.  
 Wm. B. Smullin Mgr.  
 John McCormack, Mgr.

Jess Swicegood  
 R. M. Pierce, Ch. Eng.  
 N. J. Brdcstg. Corp.

...  
Gilberto Gil

...  
Son,

Manuel J. De Gongora  
 Stanley Hubbard, Mgr.  
 Harry R. Crow; Clyde Hunt

L. Sanchez  
 Julio A. Garcia  
 A. L. Smith, Mgr.  
 J. T. Ward  
 The Northern Corp.

J. Garcia R.  
 Haymond Ramsey  
 Elmer Herkner  
 ....

Mario Abril Dumois  
 Marjorie Jamison  
 C. H. Topmiller, Ch. Eng.

...  
 Modesto Ortega  
 ....

J. C. Whitby  
 A. W. Mills

KBIX	EM	100
KBKR	...	250
KBST	M	100
KDAL	C	250
KDB	EM	250
KDRO	...	100(.25)
KEYS	P	250
KGKY	...	250
KNEL	D	250
KNOW	M	250
KOTN	...	250
KOVC	...	250
KPAB	...	250
KPLC	...	250
KPLT	...	250
KPO	M	250
KRNR	M	100(.25)
KROD	...	250
KTOH	...	250
KUTA	N	250
KVOE	M	250
KVWC	...	250
KWEW	...	100
KXO	M	100
KYCA	E	250
KYSM	EN	250
WBOC	...	250
WCNW	2	100(.25)
WDAN	...	250
WDNC	C	250
WERC	P	100(.25)
WGAL	MN	250
WGIL	...	250
WGKV	N	100
WGTC	...	250
WHBB	...	100
WJBK	...	250
WKAT	XZ	250
WKBB	N	250
WKBV	...	100(.25)
WKBZ	...	250
WKEU	D	100
WKNY	...	250
WMJM	...	100(.25)
WMOG	...	100(.25)
WMRC	...	250
WMRN	P	250
WNBF	C	250
WNLC	M	250
WOLF	...	250
WOMI	...	250
WOPJ	...	250
WRDW	C	250
WRGA	...	250
WLSL	...	250
WSTP	M	250
WSYB	M	250
WTMC	...	100
WTMV	...	250
WWRL	G2	250
WWSW	...	250
XEOK	...	400
...	P	250
....	P	250

**1510 kcs. (198.6 m.)**

CFRC	F	100
CKCR	...	100
CMCW	...	200
CMOX	...	200

**1520 kcs. (197.3 m.)**

TGW	...	5000
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- a Muskogee, Okla.
- a Baker, Ore.
- a Big Spring, Texas
- a Duluth, Minn.
- a Santa Barbara, Calif.
- z Sedalla, Mo.
- z Corpus Christi, 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.
- a El Paso, Texas
- a Lihue, Hawaii
- a Salt Lake City, Utah
- a Santa Ana, Calif.
- z Vernon, Texas
- a Hobbs, N. Mex.
- a El Centro, Calif.
- Prescott, Ariz.
- a Mankato, Minn.
- a Salisbury, Md.
- a Brooklyn, N. Y.
- a Danville, Ill.
- a Durham, N. C.
- z Erie, Pa.
- a Lancaster, Pa.
- a Galesburg, Ill.
- z Charleston, W. Va.
- a Greenville, N. C.
- a Selma, Ala.
- a Detroit, Mich.
- a Miami Beach, Fla.
- a Dubuque, Iowa
- a Richmond, Ind.
- a Muskegon, Mich.
- a Griffin, Ga.
- a Kingston, N. Y.
- a Cordele, Ga.
- a Brunswick, Ga.
- a Greenville, S. C.
- z Marion, Ohio
- a Binghamton, N. Y.
- a New London, Conn.
- a Syracuse, N. Y.
- a Owensboro, Ky.
- a Bristol, Tenn.
- a Augusta, Ga.
- a Rome, Ga.
- a Roanoke, Va.
- a Sallsbury, N. C.
- a Rutland, Vt.
- z Ocala, Fla.
- a E. St. Louis, Ill.
- a Woodside, N. Y.
- a Pittsburgh, Pa.
- z Mexico City, D. F.
- z Batavia, N. Y.
- z Corpus Christi, Tex.

J. H. Speck, Mgr.  
 Louis P. Thornton  
 Mary V. Keneaster, Prog. Dir.  
 Gilbert Fawcett, Prog. Dir.  
 Earl Pollock, Mgr.  
 ....

G. L. Burns  
 ....  
 B. J. Parrish, Mgr.  
 Mark C. Crandall, Mgr.  
 Mervel M. Valentine  
 C. R. Porter, Mgr.  
 J. Bert Mitchell, Mgr.  
 Cole E. Wylie, Mgr.  
 Justin B. Toles, Mgr.  
 Dorrence D. Roderick  
 C. J. Fern, Jr.  
 Frank C. Carman, Mgr.  
 Ernest L. Spencer, Mgr.  
 Mrs. C. C. Minyard, Sec'y.  
 W. E. Whitmore  
 F. M. Bowles, Mgr.  
 ....

H. Kimberly, Ch. Eng.  
 Peninsula Brdcastg. Co.  
 Arthur Faske  
 Perry W. Esten, Ch. Eng.  
 ....  
 Ernest Stanbiola  
 Paul Kalbfleisch  
 ....  
 Winifred Powers  
 Arthur P. Smith, Ch. Eng.  
 L. Carlson  
 ....

John R. McKenna  
 Cordele Dispatch Pub. Co.  
 ....  
 Textile Brdcastg. Co.  
 ....

Gerald J. Morey  
 ....  
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James R. Yost, Ch. Eng.  
 ....  
 ....  
 F. S. Liggett, Ch. Eng.  
 ....  
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Batavia Brdcastg. Corp.  
 Nueces Brdcastg. Corp.

- a Kingston, Ont.
- a Waterloo, Ont.
- d Havana, Cuba
- a Havana, Cuba

H. H. Stewart, Ch. Eng.  
 G. Liddle  
 A. Puente, Dir.

- e Guatemala City, Guat.

L. Schlesinger Carrera, Dir.

# 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.*

<p><b>ALABAMA</b></p> <p>Anniston 1420                      VEMA 1420                      Birmingham                      WAPI 1140                      WBBC 980                      WSON 1310                      Decatur                      WMSL 1370                      Dothan                      WAGF 1370                      Gadsden                      WJBY 1210                      Huntsville                      WBHP 1200                      Mobile                      WALA 1380                      WMOB 1200                      Montgomery                      WCOV 1210                      WBEA 1410                      Opelika                      WJHO 1370                      Selma                      WBBB 1500                      Muscle Shoals                      City                      WMSD 1420                      Tuscaloosa                      WJRD 1200</p> <p><b>ALASKA</b></p> <p>Anchorage                      WFOQ 780                      Fairbanks                      KFAB 610                      Juneau                      WJNY 1430                      Ketchikan                      WGBU 900</p> <p><b>ARIZONA</b></p> <p>Globe                      KWJB 1210                      Jerome                      WCRJ 1310                      Lowell                      WBUN 1200                      Phoenix                      KOY 550                      WPHO 1200                      WETAB 620                      Prescott                      WYCA 1500                      Safford                      WGLU 1420                      Tucson                      WTUC 1370                      WVOA 1280                      Yuma                      WYUM 1210</p> <p><b>ARKANSAS</b></p> <p>Blytheville                      WOLN 1390</p>	<p>El Dorado                      KELD 1370                      Fort Smith                      KFPW 1370                      Hot Springs                      KTHS 1080                      KWFC 1310                      Jonesboro                      KBTM 1300                      Little Rock                      KARK 890                      KGHJ 1200                      KLRA 1390                      Pine Bluff                      KOTN 1500                      Siloam Springs                      KUOA 1366</p> <p><b>CALIFORNIA</b></p> <p>Bakerfield                      KERN 1380                      KPMC 1550                      Berkeley                      KRE 1370                      Beverly Hills                      KMPC 710                      Chico                      KHSL 1260                      El Centro                      KXO 1500                      Eureka                      KIEM 1450                      Fresno                      KARM 1310                      KMJ 580                      Glendale                      KIEV 850                      Long Beach                      KPOX 1250                      KGER 1360                      Los Angeles                      KECA 780                      KFAC 1300                      KFI 640                      KFSG 1120                      KFVD 1000                      KFVB 950                      KGFJ 1200                      KHJ 900                      KMTE 570                      KNX 1050                      KRKD 1120                      Marysville                      KMYC 1420                      Merced                      KYOS 1040                      Modesto                      KTRB 740                      Monterey                      KDON 1210                      Oakland                      KLS 1280                      KLK 880                      KROW 930                      Pasadena                      KPCC 1310                      Redding                      KVCV 1200                      Sacramento                      KFBK 1490                      KBOY 1210</p>	<p>San Bernardino                      KFXM 1210                      San Diego                      KFSD 600                      KGB 1330                      San Francisco                      KFRC 610                      KGO 790                      KJBS 1070                      KPO 680                      KSAN 1420                      KSFO 660                      KYA 1230                      San Jose                      KQW 1010                      San Luis Obispo                      KVEC 1200                      Santa Ana                      KVOE 1500                      Santa Barbara                      KBD 1500                      KTMS 1220                      Santa Rosa                      KSRO 1310                      Stockton                      KGDM 1100                      KWG 1200                      Visalia                      KTRC 890                      Watsonville                      KHUB 1310</p> <p><b>COLORADO</b></p> <p>Alamosa                      KGIW 1420                      Colorado Springs                      KVOR 1270                      Denver                      KFEL 920                      KFLZ 560                      KMYB 1310                      KOA 820                      KPOF 880                      KVOD 630                      Durango                      KIUP 1370                      Grand Junction                      KXFJ 1200                      Greeley                      KFKA 880                      La Junta                      KOKO 1370                      Lamar                      KIDW 1420                      Pueblo                      KGHF 1320                      Sterling                      KGEK 1200</p> <p><b>CONNECTICUT</b></p> <p>Bridgeport                      WICC 600                      WNAB 1420                      Hartford                      WDRC 1330                      WTIC 1040                      WTHT 1200                      New Britain                      WNBC 1380                      New Haven                      WELI 930</p>	<p>New London                      WNLC 1500                      Waterbury                      WATR 1290                      WBYY 1530</p> <p><b>DELAWARE</b></p> <p>Wilmington                      WDEL 1120                      WILM 1420</p> <p><b>DISTRICT OF COLUMBIA</b></p> <p>Washington                      WINX 1310                      WJSV 1460                      WMAL 630                      WOL 1230                      WRC 950                      WWDC 1420</p> <p><b>FLORIDA</b></p> <p>Daytona Beach                      WMPJ 1420                      Ft. Lauderdale                      WFTL 1370                      Ft. Myers                      WFTM 1210                      Gainesville                      WRUF 880                      Jacksonville                      WJAX 900                      WJHP 1290                      WMBR 1370                      Lakeland                      WLAK 1310                      Miami                      WIOD 610                      WQAM 560                      Miami Beach                      WKAT 1500                      Ocala                      WTMC 1500                      Orlando                      WDBO 580                      WLOF 1200                      Panama City                      WDLF 1200                      Pensacola                      WCOA 1340                      St. Augustine                      WFOY 1210                      St. Petersburg                      WSUN 620                      WTSP 1370                      Sarasoto                      WSPB 1420                      Tallahassee                      WTAL 1310                      Tampa                      WDAE 1220                      WFLA 620                      WKGA 940                      West Palm Beach                      WJNO 1200</p> <p><b>GEORGIA</b></p> <p>Albany                      WALB 1230                      WGFC 1420                      Athens                      WGAU 1310</p>	<p>Atlanta                      WAGA 1450                      WATL 1370                      WMBI 1080                      WGST 890                      WSB 740                      Augusta                      WGAC 1210                      WAIWH 1420                      WRDW 1500                      Brunswick                      WMOG 1500                      Columbia                      WRBL 1200                      Cordele                      WMJM 1500                      Dalton                      WBLJ 1200                      Gainesville                      WGGA 1210                      Griffin                      WKEU 1500                      Macon                      WBML 1420                      WMAZ 1180                      Moultrie                      WMGA 1370                      Rome                      WRGA 1500                      Savannah                      WSAV 1310                      WTOC 1280                      Thomasville                      WPAX 1210                      Valdosta                      WGOV 1420                      Waycross                      WAYX 1200                      West Point                      WDAK 1310</p> <p><b>HAWAII</b></p> <p>Hilo                      KHBC 1200                      Honolulu                      KOMB 1320                      KGU 750                      Lihue                      KTOH 1508</p> <p><b>IDAHO</b></p> <p>Boise                      KIDO 1350                      Idaho Falls                      KID 1320                      Lewiston                      KRLC 1390                      Nampa                      KFXD 1200                      Pocatello                      KSEI 900                      Twin Falls                      KTFI 1240                      Wallace                      KWAL 1420</p> <p><b>ILLINOIS</b></p> <p>Aurora                      WMRO 1250                      Bloomington                      WJBC 1200                      Carthage                      WCAZ 1070                      Champaign                      WDWS 1370</p>
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# NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<b>Chicago</b>	<b>WSBT</b> 1360	<b>KENTUCKY</b>	<b>MASSACHUSETTS</b>	<b>Port Huron</b>
WAAF 920	Terre Haute	Ashland	Boston	WHLA
WBBM 770	WBOW 1200	WCMJ 1310	WAAB 1410	Royal Oak
WCBM 1080	Vincennes	Bowling Green	WBZ 990	WEXL
WCFL 970	WAOV 1420	WBLJ 1310	WCOP 1120	Saginaw
WCRW 1210	West Lafayette	Hopkinsville	WEEL 590	WHAL
WEDC 1210	WBAA 890	WHOP 1200	WHDH 830	WSAM
WENR 870		Lexington	WMEX 1470	Sault Ste. Marie
WGES 1360	<b>IOWA</b>	WLAP 1420	WNAC 1230	WSOO
WGN 720	Ames	Louisville	WORL 920	Traverse City
WJJD 1130	WOI 640	WAVE 940	Fall River	WTCM
WLS 870	Boone	WHAS 820	WSAB 1450	<b>MINNESOTA</b>
WMAQ 670	KFGQ 1370	WINN 1210	Greenfield	Albert Lea
WMBI 1080	Cedar Rapids	Owensboro	WHAI 1210	KATE
WBSC 1210	WMT 600	WOMI 1500	Holyoke	Duluth
Cleere	WOC 1370	Paducah	WHYN 1370	KDAL
WHFC 1420	Decorah	WPAD 1420	Hyannis	WEBC
Danville	KWLC 1270	<b>LOUISIANA</b>	WOCB 1210	Fergus Falls
WDAN 1500	Des Moines	Alexandria	Lawrence	KGDE
Decatur	KRNT 1320	Baton Rouge	WLAW 680	Hibbing
WSOY 1310	KSO 1430	WJBO 1120	WLLH 1370	WMFG
East St. Louis	WHO 1000	Lafayette	Lowell	Mankato
WTMV 1500	Dubuque	KVOL 1310	WLLH 1370	KYSM
Galesburg	KDTH 1340	Lake Charles	New Bedford	Minneapolis
WGIL 1500	KBIB 1500	KPLC 1500	WNLI 1310	WCCO
Harrisburg	Fort Dodge	Monroe	WBRK 1310	WDGY
WEBQ 1210	KVFD 1370	KMLB 1200	Salem	WLB
Herrin	Iowa City	New Orleans	WESX 1200	WLWL
WJPF 1310	WSUI 880	WDSU 1250	Springfield	WTCN
Joliet	Marshalltown	WJBW 1200	WBZA 990	Moorhead
WCLS 1310	KFJB 1200	WNOE 1420	WMAS 1420	KVOX
Peoria	Mason City	WSMB 1320	WSPR 1140	Northfield
WMBD 1440	KGLO 1210	Shreveport	Worcester	WCAL
Quincy	OTTUMWA	KRMD 1210	WORC 1280	Rochester
WTAD 900	KBIZ 1210	KTBS 1450	WTAG 580	KROC
Rockford	Shenandoah	KWKH 1100	<b>MICHIGAN</b>	St. Cloud
WROK 1410	KFNF 890	<b>MAINE</b>	Battle Creek	St. Paul
Rock Island	KMA 930	Augusta	WELL 1420	KSTP
WHBF 1240	Sioux City	Bangor	Bay City	WMIN
Springfield	KSCJ 1350	WABJ 1200	WBCM 1410	Virginia
WCBS 1420	KTRI 1420	WLBZ 620	Calumet	WHLB
WTAX 1210	<b>KANSAS</b>	Lewiston	WEDF 1870	Willmar
Tuscola	Atchison	Portland	Detroit	KWLM
WDZ 1020	KVAK 1420	WCOU 1210	East Lansing	Winona
Urbana	Coffeyville	Portland	WKAR 850	KWNO
WILL 580	KGGF 1010	WCSB 940	Filint	<b>MISSISSIPPI</b>
<b>INDIANA</b>	Dodge City	WGAN 500	WEDF 1810	Columbus
Anderson	KGNO 1340	Presque Isle	Grand Rapids	WCBI
WBUB 1210	Emporia	WAGM 1420	Grand Rapids	Greenville
Elkhart	KTSW 1370	<b>MARYLAND</b>	WASH 1270	WJFB
WTRC 1310	Garden City	Baltimore	WGBB 1200	Greenwood
Evansville	KIUL 1210	WBAL 700	WGLV 1200	WGRM
WEOA 1370	Great Bend	WBAL 1060	WLAJ 1310	Gulfport
WGBF 880	KVGB 1370	WCAO 600	WOOD 1370	WGCM
Fort Wayne	Hutchinson	WCBM 1370	Ironwood	Hattiesburg
WGL 1370	KWBG 1420	WFBB 1270	Jackson	WFOR
WOWO 1160	Kansas City	WFBB 1270	Jackson	Jackson
Gary	KCKN 1310	Cumberland	Jackson	WJDX
WIND 560	Lawrence	WTBO 800	Jackson	WSLI
Hammond	KCKU 1220	Frederick	Jackson	Laurel
WHIP 1480	KREN 1220	Hagerstown	Jackson	WAML
WJOB 1200	Manhattan	WJEJ 1210	Jackson	McComb
Indianapolis	KSAC 580	Salisbury	Kalamazoo	WMB
WFBM 1230	Pittsburg	WBOC 1500	WKOZ 590	Meridian
WIBC 1050	WAGM 1420	<b>MISSOURI</b>	Lansing	WCOB
WIRE 1400	KOAM 790	Cape Girardeau	WJTM 1210	Vicksburg
Muncie	Salina	Clayton	Lapeer	WQBC
WLBC 1310	KSAL 1120	Clayton	Marquette	<b>MISSOURI</b>
New Albany	Topeka	Clayton	WDMJ 1310	Cape Girardeau
WGRC 1370	WLBW 580	Clayton	Muskegon	KFVS
Richmond	WLOA 1050	Clayton	WKBZ 1500	Clayton
WKBV 1500	KANS 1210	Clayton	Pontiac	KFUO
South Bend	KFBI 1050	Clayton	WCAR 1100	
WFAM 1200	KFHF 1300	Clayton		

# NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p><b>Columbia</b></p> <p>CFBU 630 Jefferson City KWOS 1310 Joplin VMBH 1420 Kansas City KCMO 1450 ITE 1530 KMBC 950 WDAF 610 VHB 860 Poplar Bluff KWOC 1310 St. Joseph KFEQ 680 St. Louis KMOX 1090 KSD 550 KWK 1350 KXOK 1250 WEW 760 WIL 1200 Sedalia KDRO 1500 Springfield KGBX 1230 KWTO 560</p> <hr/> <p style="text-align: center;"><b>MONTANA</b></p> <p>Billings KGHL 780 Bozeman KRFM 1420 Butte KGJR 1340 Great Falls KFBF 1280 Helena KPPA 1210 Kalispell KGEZ 1310 Missoula KRIF 1310 Missoula KGVO 1260 Wolf Point KGCK 1450</p> <hr/> <p style="text-align: center;"><b>NEBRASKA</b></p> <p>Fremont KORN 1370 Grand Island KMMJ 740 Hastings KHAS 1200 Kearney KGFV 1210 Lincoln KFAB 770 EPOR 1210 Norfolk WJAG 1060 North Platte KGNF 1450 Omaha KOIL 1200 KOWH 660 WOW 590 Scottsbluff KGEY 1500</p> <hr/> <p style="text-align: center;"><b>NEVADA</b></p> <p>Las Vegas KENO 1370 KFUN 1420 Reno KOH 630</p>	<p style="text-align: center;"><b>New HAMPSHIRE</b></p> <p>Laconia WLNH 1310 Manchester WFEA 1840 WMUR 610 Portsmouth WHEB 740</p> <hr/> <p style="text-align: center;"><b>NEW JERSEY</b></p> <p>Asbury Park WCAP 1280 Atlantic City WBAB 1200 WFPG 1420 Bridgeport WSNJ 1210 Camden WCAM 1280 Jersey City WAAT 940 WHOM 1450 Newark WHBI 1250 WOR 710 Paterson WPAT 900 Red Bank WBRB 1210 Trenton WTNJ 1230 Zarephath WAWZ 1350</p> <hr/> <p style="text-align: center;"><b>NEW MEXICO</b></p> <p>Albuquerque KGGM 1230 KOB 1180 Carlsbad KLAH 1210 Clovis KICA 1370 Gallup KAWM 1500 Hobbs KWEV 1500 Roswell KGFL 1270 Santa Fe KVSF 1310</p> <hr/> <p style="text-align: center;"><b>NEW YORK</b></p> <p>Albany WABY 1370 WOKO 1430 Auburn WMBO 1210 Binghamton WNBH 1500 Brooklyn WARD 1400 WBBC 1400 WBBR 1300 WCNW 1500 WVFW 1400 Buffalo WBN 900 WBNY 1370 WEBB 1310 WGR 550 WKBW 1430 WWSV 1370 Canton WCAD 1220 Elmira WENY 1200 Fresport WGBB 1210</p>	<p style="text-align: center;"><b>Ithaca</b></p> <p>WHCU 850 Jamestown WJTN 1210 Kingston WKNY 1500 Newburgh WGNV 1220 New York WABC 860 WBNX 1350 WEAF 660 WEVD 1300 WHN 1010 WINS 1180 WJZ 760 WLTH 1400 WMCA 570 WNEW 1250 WNYC 810 WOP 1100 WQXR 1550 Niagara Falls WHLD 1260 Ondenburg WSLB 1370 Olean WHDL 1420 Plattsburg WMPF 1310 Poughkeepsie WKIP 1420 Rochester WHAM 1150 WHEC 1430 WSAY 1210 Salina WAGE 620 Saranac Lake WNBZ 1290 Scheneectady WGY 790 Syracuse WFBL 1360 WOLF 1500 WSYR 570 Troy WHAZ 1300 WTRY 950 Utica WIBX 1200 Watertown WATN 1210 WVNY 1270 White Plains WFAS 1210 Woodside WWRL 1500</p> <hr/> <p style="text-align: center;"><b>NORTH CAROLINA</b></p> <p>Asheville WISE 1370 WWNC 570 Charlotte WBT 1020 WSOC 1210 Durham WDNC 1500 Elizabeth City WCNC 1370 Fayetteville WFNC 1340 Gastonla WGNC 1420 Goldsboro WGBB 1370 Greensboro WBG 1440</p>	<p style="text-align: center;"><b>Greenville</b></p> <p>WGTC 1500 Hickory WHKY 1370 High Point WMPR 1200 Kinston WPTC 1200 Raleigh WPTF 680 WRAL 1210 Roanoke Rapid WCBT 1200 Rocky Mount WEED 1420 Sallisbury WSTP 1500 Wilmington WMFD 1370 Wilson WGTM 1310 Winston-Salem WAIR 1250 WSJS 1310</p> <hr/> <p style="text-align: center;"><b>NORTH DAKOTA</b></p> <p>Bismarck KFYR 550 Devils Lake KDLR 1210 Fargo WDAY 940 Grand Forks KFJM 1410 Jamestown KRMC 1370 Mandan KGCV 1240 Minot KLPM 1360 Valley City KOVV 1500</p> <hr/> <p style="text-align: center;"><b>OHIO</b></p> <p>Akron WAKR 1530 WJW 1210 Ashtabula WICA 940 Canton WBHC 1200 Cincinnati WCKY 1490 WCPO 1200 WKRC 550 WLW 700 WSAI 1380 WBO 700 Cleveland WCLE 610 WGAR 1450 WHK 1390 WTAM 1070 Columbus WBNS 1430 WCOL 1200 WHKC 640 WOSU 570 Dayton WHIO 1260 WING 1380 Lima WLOK 1210</p>	<p style="text-align: center;"><b>Manfield</b></p> <p>WMAN 1370 Marion WMRN 1500 Portsmouth WPAY 1370 Springfield WIZE 1310 Steubenville WSTV 1310 Tallmadge WADC 1320 Toledo WSPD 1340 WTOL 1200 Youngstown WFMJ 1420 WKBN 570 Zanesville WHIZ 1210</p> <hr/> <p style="text-align: center;"><b>OKLAHOMA</b></p> <p>Ada KADA 1200 Ardmore KVSO 1210 Eik City KASA 1210 Enid KCRC 1360 Muskogee KBIX 1500 Norman WNAD 1010 Oklahoma City KOCY 1310 KOMA 1480 KTOK 1370 WKY 900 Okmulgee KHBG 1210 Ponca City WBBZ 1200 Shawnee KGFF 1420 Tulsa KOME 1210 KTUL 1400 KVOO 1140</p> <hr/> <p style="text-align: center;"><b>OREGON</b></p> <p>Astoria KAST 1200 Baker KBBR 1500 Bend KBND 1310 Corvallis KOAC 330 Eugene KORE 1420 Grants Pass KUIN 1310 Klamath Falls KFJI 1210 La Grande KLBM 1420 Marshfield KOOS 1200 Medford KMED 1410 Portland KALE 1200 KBPS 1420 KEX 1160 KGW 620</p>
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# NORTH AMERICAN B. C. STATIONS BY LOCATIONS

KOIN	940
KWJJ	1040
KXL	1420
Roseburg	
KRRR	1500
Salem	
KSLM	1300
The Dalles	
KODL	1200

## Pennsylvania

Allentown	
WCBA	1440
WSAN	1440
Alltoona	
WFBG	1310
Du Bois	
WCED	1200
Easton	
WEST	1200
Erie	
WERC	1500
WLEU	
WLEU	1420
Glenside	
WIBG	970
Greenburg	
WHJB	620
Grove City	
WSAJ	1310
Harrisburg	
WHP	1430
WKBO	1200
Hazleton	
WAZL	1420
Johnstown	
WJAC	1370
Lancaster	
WGAL	1500
New Castle	
WKST	1250
New Kensington	
WKPA	1120
Philadelphia	
KYW	1020
WCAU	1170
WDAS	1370
WFIL	560
WHAT	1310
WIP	610
WPEN	920
WTEL	1310
Pittsburgh	
KDKA	980
KQV	1380
WCAE	1220
WJAS	1290
WWSW	1500
Reading	
WEEU	830
WRAW	1310
Scranton	
WARM	1370
WGBI	880
WQAN	880
Sharon	
WPIC	780
Sunbury	
WKOK	1210
Uniontown	
WMBS	1420
Wilkes-Barre	
WBAX	1210
WBRE	1310
Williamsport	
WRAK	1370
York	
WORK	1320

## PUERTO RICO

Mayaguez	
WPRA	780
Ponce	
WPAB	1340
WPRP	1420
San Juan	
WKAQ	1240
WNEL	1290

## RHODE ISLAND

Pawtucket	
WFBI	1390
Providence	
WEAN	780
WJAR	890
WPRO	630

## SOUTH CAROLINA

Anderson	
WAIM	1200
Charleston	
WCSC	1300
WTMA	1210
Columbia	
WCOS	1270
WIS	500
Florence	
WOLS	1200
Greenville	
WFBC	1300
WMRC	1500
Spartanburg	
WORD	1370
WSPA	920
Sumter	
WFIG	1310

## SOUTH DAKOTA

Aberdeen	
KABR	1300
Brookings	
KFDY	780
Pierre	
KGFX	630
Rapid City	
KOBH	1370
WCAT	1200
Sioux Falls	
KELO	1200
KSOO	1110
Vermillion	
KUSD	890
Watertown	
KWAT	1210
Yankton	
WNAX	570

## TENNESSEE

Bristol	
WOPI	1500
Chattanooga	
WAPO	1420
WDEF	1370
WDOD	1280
Cookeville	
WHUB	1370
Jackson	
WTJS	1810
Johnson City	
WJEL	1200

## Kingsport

WKPT	1370
Knoxville	
WHRK	1210
WNOX	1010
WROL	1210
Memphis	
WHRQ	1370
WMC	780
WMPS	1430
WREC	600
Nashville	
WLAC	1470
WSIV	1210
WSM	650

## TEXAS

Ablilene	
KRBC	1420
Amarillo	
KFDA	1200
KGNC	1410
Austin	
KNOW	1500
Beaumont	
KPDM	580
KRIC	1420
Big Spring	
KBST	1500
Brady	
KNEL	1500
Brownwood	
KBWD	1350
College Station	
WTAW	1120
Corpus Christi	
KEYS	1500
KRIS	1320
Dallas	
KRLD	1040
WFAA	800
WBR	1280
Denton	
KDNT	1420
Dublin	
KFPL	1310
El Paso	
KROD	1500
KTSM	1350
Fort Worth	
KFJZ	1340
KGKO	870
WHAP	800
Galveston	
KLUF	1370
Houston	
KPRC	920
KTRH	1290
KXYZ	1440
Kilgore	
KOCA	1310
Laredo	
KPAB	1500
Longview	
KPRO	1340
Lubbock	
KPYO	1310
Midland	
KRLH	1420
Pampa	
KPDN	1310
Paris	
KPLT	1500
Peecos	
KIUN	1370
Port Arthur	
KPAC	1220
San Angelo	
KGKL	1370

## San Antonio

KABC	1420
KMAC	1370
KONO	1370
KTSA	550
WOAI	1190
Sherman	
KRRV	880
Sweetwater	
KKXK	1310
Temple	
KTEM	1370
Texarkana	
KCMC	1420
Vernon	
KYWC	1500
Victoria	
KVIC	1810
Waco	
WACO	1420
Waxaco	
KRGV	1280
Wichita Falls	
KWFT	620

## UTAH

Cedar City	
KSUB	1310
Logan	
KVNU	1200
Ogden	
KLO	1400
Price	
KEUB	1420
Provo	
KOVO	1210
Salt Lake City	
KDYL	1290
KSL	1130
KUTA	1500

## VERMONT

Burlington	
WCAJ	1200
Rutland	
WSTB	1500
St. Albans	
WQDM	1390
Springfield	
WNBX	1380
Waterbury	
WDEV	550

## VIRGINIA

Charlottesville	
WCHV	1420
Danville	
WBTM	1370
Fredericksburg	
WFVA	1260
Harrisonburg	
WSVA	550
Lynchburg	
WLVA	1200
Martinsville	
WMVA	1420
Newport News	
WGH	1310
Norfolk	
WTAR	780
Petersburg	
WPID	1210
Richmond	
WBBL	1310
WMBG	1350

WRNL	
WRVA	
Roanoke	
WDRJ	
WSLS	
Suffolk	
WLPM	

## WASHINGTON

Aberdeen	
KXRO	
Bellingham	
KVOS	
Centralia	
KELA	
Everett	
KRKO	
Longview	
KWLK	
Olympia	
KGY	
Pullman	
KWSC	
Seattle	
KEVE	
KIRO	
KJB	
KOL	
KOMO	
KRSC	
KTW	
KXA	
Spokane	
KFIO	
KFPY	
KGA	
KHQ	
Tacoma	
KMO	
KVI	
Vancouver	
KVAN	
Walla Walla	
KUJ	
Wenatchee	
KPQ	
Yakima	
KIT	

## WEST VIRGINIA

Beckley	
WJLS	12
Bluefield	
WHIS	10
Charleston	
WCBS	5
WQKV	15
Clarksburg	
WBLK	18
Fairmont	
WMMN	8
Huntington	
WSAZ	11
Logan	
WLOG	12
Morgantown	
WAJR	12
Parkersburg	
WPAR	14
Welch	
WBEW	15
Wheeling	
WVVA	11



# NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p><b>Williamson</b> WBTH 1370</p> <p><b>WISCONSIN</b></p> <p>Appleton WBHY 1200</p> <p>Ashland WATW 1370</p> <p>Eau Claire WEAU 1050</p> <p>Fond du Lac KFIZ 1420</p> <p>Green Bay WTAQ 1330</p> <p>Janesville WCLO 1200</p> <p>LaCrosse WRBH 1380</p> <p>Madison WHA 940</p> <p>WIBA 1280</p> <p>Manitowoc WOMT 1210</p> <p>Marinette WMAM 570</p> <p>Milwaukee WEMP 1310</p> <p>WISN 1120</p> <p>WTMJ 620</p> <p>Poynette WIBU 1210</p> <p>Racine WBJN 1370</p> <p>Rice Lake WJMC 1210</p> <p>Sheboygan WHDL 1300</p> <p>Stevens Point WLBL 900</p> <p>Superior WDBM 1200</p> <p>Wausau WSAU 1370</p> <p>Wisconsin Rapids WFHE 1310</p> <p><b>WYOMING</b></p> <p>Casper KDFN 1440</p> <p>Cheyenne KFBC 1420</p> <p>KYAN 1370</p> <p>Rook Springs KVBS 1370</p> <p>Sheridan KWYO 1370</p> <p><b>BAHAMAS</b></p> <p>Nassau ZNS 790</p> <p><b>CANADA ALBERTA</b></p> <p>Calgary CFAC 930</p> <p>CFCN 1020</p> <p>CJCT 690</p> <p>Edmonton CFRN 980</p> <p>CJCA 730</p> <p>CKULA 580</p> <p>Grande Prairie CFGP 1310</p> <p>Lethbridge CJOC 1370</p>	<p><b>BRITISH COLUMBIA</b></p> <p>Chilliwack CHWK 780</p> <p>Kamloops CFJC 880</p> <p>Kelowna CKOV 630</p> <p>Nelson CKLN 1420</p> <p>Prince Rupert CFPR 580</p> <p>Trill CJAT 910</p> <p>Vancouver CBB 1100</p> <p>CJOR 600</p> <p>CKMO 1410</p> <p>CKWX 950</p> <p>Victoria CFCT 1450</p> <p><b>MANITOBA</b></p> <p>Brandon CKX 1120</p> <p>Flin Flon CFAR 1270</p> <p>Winnipeg CJRC 630</p> <p>CKY 910</p> <p><b>NEW BRUNSWICK</b></p> <p>Campbellton CKNB 1210</p> <p>Fredericton CFNB 550</p> <p>Moncton CKCW 1270</p> <p>Sackville CBA 1050</p> <p>St. John CHSJ 1130</p> <p><b>NOVA SCOTIA</b></p> <p>Glace Bay VAS 685</p> <p>Halifax CHNS 230</p> <p>CJHC 1290</p> <p>Sydney CJCB 1240</p> <p>Yarmouth CJLS 1310</p> <p><b>ONTARIO</b></p> <p>Brantford CKPC 930</p> <p>Chatham CKCO 630</p> <p>Cobalt CKMC 1210</p> <p>Fort William CKPR 580</p> <p>Hamilton CHML 1010</p> <p>CKOC 1120</p> <p>Kenora CKCA 1420</p> <p>Kingston CFBC 1510</p> <p>Kirkland Lake CJLK 560</p> <p>London CFPL 730</p>	<p><b>North Bay</b></p> <p>CFCH 930</p> <p>Ottawa CKO 8830</p> <p>CKCO 1010</p> <p>Owen Sound CFOS 1370</p> <p>Prescott CFLO 930</p> <p>St. Catharines CKTB 1200</p> <p>Sault Ste. Marie CJIC 1500</p> <p>Stratford CJCS 1210</p> <p>Sudbury CKSO 780</p> <p>Timmins CKGB 1440</p> <p>Toronto CBL 840</p> <p>CBY 1420</p> <p>CFRB 690</p> <p>CKCL 580</p> <p>Waterloo CKCR 1510</p> <p>Windsor CKLW 1030</p> <p>Wingham CKNX 1200</p> <p><b>PRINCE EDWARD ISLAND</b></p> <p>Charlottetown CFCY 630</p> <p>CHCK 1310</p> <p>Summerside CHGS 1450</p> <p><b>QUEBEC</b></p> <p>Chicoutimi CBJ 1120</p> <p>Hull CKCH 1210</p> <p>Montreal CBF 910</p> <p>CBM 960</p> <p>CFCF 600</p> <p>CHLP 1120</p> <p>CKAC 730</p> <p>New Carlisle CHNC 610</p> <p>Quebec CHBC 580</p> <p>CKCV 1310</p> <p>Rimouski CJBB 1030</p> <p>Rouyn CKRN 1370</p> <p>St. Anne de la Pocatiere CHKG 1200</p> <p>Sherbrooke CHLT 1210</p> <p>Three Rivers CHLN 1420</p> <p>Val d'Or CKVD 1200</p> <p><b>SASKATCH- EWAN</b></p> <p>Moose Jaw CHAB 1200</p>	<p><b>North Battleford</b></p> <p>CHNB 1420</p> <p>Prince Albert CBBI 1210</p> <p>Regina CJRM 950</p> <p>CKCK 1010</p> <p>Saskatoon CKQC 600</p> <p>Watrous CBK 540</p> <p>Yorkton CJGX 1430</p> <p><b>COSTA RICA</b></p> <p>Alajuela TIBCV 575</p> <p>San Jose TIAFB 900</p> <p>TIEMC 860</p> <p>TIEP 830</p> <p>TIFA 1000</p> <p>TIGH 690</p> <p>TIGPH 600</p> <p>TIGPH2 1225</p> <p>TIHO 1030</p> <p>TILJ 775</p> <p>TILS 880</p> <p>TINBC 1070</p> <p>TING 750</p> <p>TIOS 940</p> <p>TIPG 625</p> <p>TIRCC 1200</p> <p>TIRS 920</p> <p>TIKD 800</p> <p><b>CUBA</b></p> <p>Banes CMXX 1190</p> <p>Bayama CMKL 950</p> <p>Calbarlen CMHD 1270</p> <p>Camaguey CMJA 860</p> <p>CMJC 1390</p> <p>CMJE 1230</p> <p>CMJF 930</p> <p>CMJK 1020</p> <p>CMJN 610</p> <p>CMJW 1070</p> <p>CMJX 900</p> <p>Cardenas CMGE 1370</p> <p>Ciego de Avila CMJH 1360</p> <p>CMJI 1130</p> <p>CMJM 870</p> <p>CMJO 1260</p> <p>Cienfuegos CMHJ 1160</p> <p>CMHM 1450</p> <p>CMHO 1020</p> <p>CMHX 1480</p> <p>Cruces CMHK 1210</p> <p>Guanabacoa CMCX 1050</p> <p>Guantanamo CMKH 1110</p> <p>CMKJ 700</p> <p>CMKS 860</p> <p>Guines CMRT 1530</p> <p>Havana CMBC 780</p> <p>CMBD 1290</p> <p>CMBF 1290</p> <p>CMBG 1180</p>	<p><b>009T HBFO</b></p> <p>CMBL 720</p> <p>CMBG 1150</p> <p>CMBS 1250</p> <p>CMBX 1180</p> <p>CMBY 1410</p> <p>CMBZ 1010</p> <p>CMC 1350</p> <p>CMCA 1350</p> <p>CMCB 1250</p> <p>CMCD 630</p> <p>CMCF 810</p> <p>CMCG 1080</p> <p>CMCH 1050</p> <p>CMCI 1650</p> <p>CMCK 970</p> <p>CMCM 850</p> <p>CMCO 1210</p> <p>CMCQ 1410</p> <p>CMCU 1110</p> <p>CMCR 1550</p> <p>CMCW 1510</p> <p>CMCY 590</p> <p>CMK 750</p> <p>CMQA 1210</p> <p>CMOX 1510</p> <p>CMQ 690</p> <p>CMW 850</p> <p>CMX 880</p> <p>CMZ 920</p> <p><b>Holguin</b></p> <p>CMKF 1400</p> <p>CMKO 1380</p> <p>CMKV 570</p> <p><b>Jovellanos</b></p> <p>CMGN 760</p> <p><b>Manzanillo</b></p> <p>CMKE 1310</p> <p>CMKM 1080</p> <p><b>Matanzas</b></p> <p>CMGF 1130</p> <p>CMGH 1190</p> <p><b>Moron</b></p> <p>CMJP 1420</p> <p><b>Nuevitas</b></p> <p>CMJL 1330</p> <p>Palma Soriano CMKZ 1480</p> <p><b>Pinar del Rio</b></p> <p>CMAB 1240</p> <p>CMAC 1030</p> <p>CMAN 540</p> <p>CMAB 1400</p> <p><b>Plaetas</b></p> <p>CMHP 1100</p> <p>Puerto Padre CMKB 1350</p> <p><b>Sagua la Grande</b></p> <p>CMHA 1090</p> <p>Sancti Spiritus CMHB 1240</p> <p>Santa Clara CMHI 830</p> <p>CMHN 760</p> <p>CMHQ 1320</p> <p>CMHW 950</p> <p><b>Santiago</b></p> <p>CMKC 1350</p> <p>CMKD 910</p> <p>CMKG 1000</p> <p>CMKN 640</p> <p>CMKQ 1490</p> <p>CMKR 1400</p> <p>CMKW 1050</p> <p>CMKY 1140</p> <p><b>Trinidad</b></p> <p>CMHT 920</p> <p>Victoria Tunas CMKU 730</p>
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# NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<b>REPUBLIC DOMINICAN</b> Ciudad Trujillo HIG 900 HIN 1090 HIX 800 HIT 1050 HIZ 1870 HISQ 1470 <hr/> <b>EL SALVADOR</b> San Salvador YSS 640 <hr/> <b>GUATEMALA</b> Guatemala City TKW 1520 TOX 1400 TGI 1310 Quetzaltenango TGQ 1450 <hr/> <b>HONDURAS</b> Tegucigalpa HRN 14450 <hr/> <b>MEXICO</b> Aguascalientes XEAD 1240 XEBI 1000 <hr/> <b>BAJA CALIFORNIA</b> Mexicali XEAA 750 XEAO 680 XECL 1110 Tijuana XEAC 980 XEAU 1400 XEBG 820 XEC 1150 XELO 670 XEMO 860 XEON 750 XERB 1090	<b>CAMPECHE</b> Campeche XEA 1400 <hr/> <b>CHIHUAHUA</b> Chihuahua XEBU 1240 XEBW 1340 XEFL 1440 XEM 1390 Juarez XEF 1450 XEFV 1210 XEJ 1020 XEP 1160 Parral XEAT 1310 XEJR 1490 Sabinas XEBX 640 Sattillo XEAS 1160 XERS 1240 Torreon XEDE 1400 XETB 1310 Villa Acuna XEDH 1340 XERA 840 <hr/> <b>DISTRITO FEDERAL</b> Mexico City XEAI 1250 XEB 1020 XEBS 1340 XEBZ 819 XEDA 1220 XEDF 080 XEFO 940 XEJF 1130 XEKB 1280 XEL 1150 XELZ 1370 XEN 780 XEQ 780 XEQK 1500 XERC 830 XERH 1430 XESM 1270 XEK 1000	<b>XEW</b> 990 <b>XEXX</b> 1170 <hr/> <b>DURANGO</b> Durango XEBP 1150 XEE 1210 <hr/> <b>GUANAJUATO</b> Irapuato XEBO 1330 XEFM 1160 Leon XEFM 1160 XEKL 1240 Silao XEWE 720 <hr/> <b>JALISCO</b> Guadalajara XED 1100 XEHK 1130 XELW 1340 Guzman XEBA 1030 <hr/> <b>MEXICO</b> Texcoco XEXE 1270 Toluca XECH 1490 <hr/> <b>MICHOACAN</b> Morelia XEBC 1240 XEI 1370 <hr/> <b>NAYARIT</b> Tepic XERK 1450 <hr/> <b>NUEVO LEON</b> Monterrey XEFB 870 XEG 1230 XEH 740 XET 690 XEX 1310	<b>OAXACA</b> Oaxaca XEOA 1240 XEXH 1160 <hr/> <b>PUEBLA</b> Puebla XEHR 1230 <hr/> <b>SAN LUIS POTOSI</b> San Luis XECZ 1370 <hr/> <b>SINALOA</b> Los Mochis XEOX 1230 Mazatlan XEBL 1220 XEDS 1400 <hr/> <b>SONORA</b> Caranua XEFQ 1010 Guaymas XEDR 1490 Hermosillo XEBH 950 Magdalena XEDJ 1450 Navojoa XEAJ 1400 XEDL 1240 Nogales XEAF 1000 Obregon XEAP 1840 San Luis XEY 1450 <hr/> <b>TAMAULIPAS</b> Matamoras XEAM 750 Nuevo Laredo XEBK 1080 XEDF 1240 XEFE 910 XENT 990 Reynosa Potosi	<b>XECA</b> 1380 <b>XEFW</b> 1310 <b>XES</b> 990 Victoria <b>XEBJ</b> 1340 <hr/> <b>VERA CRUZ</b> Cordoba <b>XEAG</b> 1310 <b>XECW</b> 1240 Jalapa <b>XEXB</b> 1370 Minatitlan <b>XEDW</b> 1150 Orizaba <b>XEPP</b> 1400 Veracruz <b>XETF</b> 1220 <b>XEU</b> 1010 <hr/> <b>YUCATAN</b> Merida <b>XEFC</b> 1340 <b>XEME</b> 1240 <b>XEZ</b> 630 <hr/> <b>ZACATECAS</b> Zacatecas <b>XELK</b> 1230 <hr/> <b>MIQUELON</b> St. Pierre <b>FQN</b> 609 <hr/> <b>NEWFOUNDLAND</b> St. John's <b>VOAC</b> 1065 <b>VOAB</b> 950 <b>VOCM</b> 1040 <b>VONF</b> 640 <b>VOWB</b> 700 <hr/> <b>PANAMA</b> Colon <b>XEAW</b> 960 <b>HOK</b> 640 <b>VOGY</b> 840
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## 1530 kcs. (196 m.)

CMCJ	...	200
CMCR	...	200
KITE	M	1000
WBRY	CMX	1000
WAKR	BP	1000

- a Havana, Cuba
- a Kansas City, Mo.
- a Waterbury, Conn.
- z Akron, Ohio

Pete Houck, Eng.  
S. E. Warner, Ch. Eng.  
....

## 1550 kcs. (193.4 m.)

KPMC	M	1000
WOXR	X	1000

- a Bakersfield, Calif.
- a New York, N. Y.

L. A. Schamblin, Mgr.  
Russell Valentine, Ch. Eng.

## 1580 kcs. (189.8 m.)

CMRT	...	200
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- z Guines, Cuba

Raul Torres Pardo

## 1600 kcs. (187.4 m.)

CMBH	...	5000
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- a Havana, Cuba

Alberto Alvarez Ferrera

# 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	CKCK	1010	CMBD	1290	CMGN	760	CMKC	1250
CBF	910	CHGS	1450	CKCL	580	CMBF	1290	CMHA	1090	CMKD	910
CBJ	1120	CHLN	1420	CKCO	1010	CMBG	1180	CMHB	1240	CMKE	1310
CBK	540	CHLP	1120	CKCR	1510	CMBH	1600	CMHD	1270	CMKF	1460
CBL	840	CHLT	1210	CKCV	1310	CMBL	720	CMHI	830	CMKG	1000
CBM	960	CHML	1010	CKCW	1370	CMBQ	1150	CMHJ	1160	CMKH	1110
CBO	880	CHNB	1420	CKGB	1440	CMBS	1250	CMHK	1210	CMKJ	760
CBR	1100	CHNC	610	CKIC	1010	CMBX	1180	CMHM	1450	CMKL	950
CBV	950	CHNS	930	CKLN	1420	CMBY	1410	CMHN	760	CMKM	1080
CBY	1420	CHRC	580	CKLW	1030	CMBZ	1010	CMHO	1020	CMKN	640
CFAC	930	CHSJ	1120	CKMC	1210	CMC	1350	CMHP	1100	CMKO	1280
CFAR	1370	CHWK	780	CKMO	1410	CMCA	1350	CMHQ	1320	CMKQ	1490
CFCF	600	CJAT	910	CKNB	1210	CMBC	1250	CMHT	920	CMKR	1400
CFCH	930	CJBR	1030	CKNX	1200	CMCD	630	CMHW	950	CMKS	860
CFCN	1030	CJCA	730	CKOC	1120	CMCF	810	CMHX	1480	CMKU	730
CFCO	630	CJCB	1240	CKOV	630	CMCG	1080	CMJA	860	CMKV	570
CFCT	1450	CJ CJ	690	CKPC	930	CMCJ	1550	CMJC	1390	CMKW	1050
CFCY	630	CJCS	1210	CKPR	580	CMCH	1050	CMJE	1230	CMKX	1190
CFGP	1310	CJGX	1430	CKRN	1370	CMCK	970	CMJF	930	CMKY	1140
CFJC	880	CJHC	1290	CKSO	780	CMCL	730	CMJH	1360	CMKZ	1430
CFLC	930	CJIC	1500	CKTB	1200	CMCM	850	CMJI	1130	CMOA	1210
CFNB	550	CJKL	560	CKUA	580	CMCO	1210	CMJK	1020	CMOX	1510
CFOS	1370	CJLS	1310	CKVD	1200	CMCQ	1410	CMJL	1330	CMQ	690
CFPL	730	CJOC	1370	CKWX	950	CMCR	1550	CMJM	870	CMRT	1580
CFPR	580	CJOR	600	CKX	1120	CMCU	1110	CMJN	610	CMW	550
CFQC	600	CJRC	630	CKY	910	CMCW	1510	CMJO	1260	CMX	880
CFRB	690	CJRM	950	CMAB	1240	CMCX	1050	CMJP	1420	CMZ	920
CFRC	1510	CKAC	730	CMAC	1030	CMCY	590	CMJW	1070	FQN	609
CFRN	960	CKBI	1210	CMAN	540	CMGE	1370	CMJX	900	HIG	900
CHAB	1200	CKCA	1420	CMAR	1400	CMGF	1120	CMK	750	HIN	1090
CHCK	1310	CKCH	1210	CMBC	780	CMGH	1190	CMKB	1350	HIT	1050

HIX	800	KDON	1210	KFJM	1410	KGDE	1200	KHJ	900	KMLB	1200
HIZ	1370	KDRO	1500	KDLR	1210	KGDM	1100	KHQ	590	KMMJ	740
H18Q	1470	KDTH	1340	KDNT	1420	KGEK	1200	KHSL	1260	KMO	1330
HOK	640	KDYL	1290	KFJZ	1240	KGER	1360	KHUB	1310	KMOX	1090
HRN	1450	KECA	780	KFKA	880	KGZE	1310	KICA	1370	KMPC	710
KABC	1420	KELA	1440	KFKU	1220	KGFF	1420	KID	1320	KMTR	570
KABR	1390	KELD	1370	KFNF	890	KGfJ	1200	KIDO	1350	KMYC	1420
KADA	1200	KELO	1200	KFOR	1210	KGFL	1370	KIDW	1420	KMYR	1310
KALB	1210	KENO	1370	KFOX	1250	KGFW	1310	KIEM	1450	KNEL	1500
KALE	1300	KERN	1380	KFPL	1310	KGfX	630	KIEV	850	KNOW	1500
KANS	1210	KEUB	1420	KFPW	1370	KGGF	1010	KINY	1450	KNX	1050
KARK	890	KEVR	1370	KFPY	890	KGGM	1230	KIRO	710	KOA	830
KARM	1310	KEX	1160	KFQD	780	KGHF	1320	KIT	1250	KOAC	550
KASA	1210	KEYS	1500	KFRC	610	KGHI	1200	KITE	1530	KOAM	790
KAST	1200	KFAB	770	KFRQ	1340	KGHL	780	KIUL	1210	KOB	1180
KATE	1420	KFAC	1300	KFRU	630	KGIR	1340	KIUN	1370	KOBH	1370
KAWM	1500	KFAM	1420	KFSD	600	KGIW	1420	KIUP	1370	KOCA	1210
KBIX	1500	KFAR	610	KFSG	1120	KGKL	1370	KJBS	1070	KOCY	1310
KBIZ	1210	KFBB	1280	KFUN	1420	KGKO	570	KJR	970	KOH	630
KBKR	1500	KFBC	1420	KFUO	830	KGKY	1500	KLAA	1210	KOIL	1260
KBND	1310	KFBI	1050	KFVD	1000	KGLO	1210	KLBM	1420	KOIN	940
KBPS	1420	KFBK	1490	KFVS	1370	KGLU	1420	KLCN	1290	KOKO	1370
KBST	1500	KFDA	1200	KFWB	950	KGMB	1320	KLO	1400	KOL	1270
KBTM	1200	KFDM	560	KFXD	1200	KGNC	1410	KLPM	1360	KOMA	1480
KBWD	1350	KFDY	780	KFXJ	1200	KGNF	1430	KLRA	1390	KOME	1310
KCKN	1310	KFEL	920	KFXM	1210	KGNO	1340	KLS	1280	KOMO	920
KCMC	1420	KFEQ	680	KFYO	1310	KGO	790	KLUF	1870	KONB	1500
KCMO	1450	KFGQ	1370	KFYR	550	KGU	750	KLX	880	KONO	1370
KCRC	1360	KFH	1300	KGA	1470	KGVO	1260	KLZ	560	KOOS	1200
KCRJ	1310	KFI	640	KGB	1330	KGW	620	KMA	930	KORE	1420
KDAL	1500	KFIO	1120	KGBU	900	KGY	1210	KMAC	1370	KORN	1370
KDB	1500	KFIX	1420	KGBX	1230	KHAS	1200	KMBC	950	KOTN	1500
KDFN	1440	KFJB	1200	KGCU	1240	KHBC	1200	KMED	1410	KOVC	1500
KDKA	980	KFJI	1210	KGcX	1450	KHBG	1210	KMJ	580	KOVO	1210

KOWH	660	KROC	1310	KTSM	1350	KWEW	1500	TGI	1310	WADC	1320
KOY	550	KROD	1500	KTSW	1370	KWFC	1310	TIAFB	900	WAGA	1450
KPAB	1500	KROW	930	KTUC	1370	KWFT	620	TIEMC	860	WAGE	620
KPAC	1220	KROY	1210	KTUL	1400	KWG	1200	TIEP	830	WAGF	1370
KPDN	1310	KRRV	880	KTW	1220	KWJB	1210	TIFA	1000	WAGM	1420
KPFA	1210	KRSC	1120	KUIN	1310	KWJJ	1040	TIGH	690	WAIM	1200
KPFT	1210	KSAC	580	KUJ	1370	KWK	1350	TIGPH	605	WAIR	1250
KPHO	1200	KSAL	1120	KUOA	1260	KWKH	1100	TIGPH2	1225	WAJR	1200
KPLC	1500	KSAN	1420	KUSD	890	KWLC	1270	TIHO	1030	WAKR	1530
KPLT	1500	KSCJ	1550	KUTA	1500	KWLK	1370	TILJ	775	WALA	1380
KPMC	1550	KSD	550	KVAK	1420	KWLM	1310	TILS	880	WALB	1230
KPO	680	KSEI	900	KVAN	880	KWNO	1200	TINBC	1070	WAML	1310
KPOF	880	KFSO	560	KVCV	1200	KWOC	1310	TING	750	WAOV	1420
KPPC	1210	KSL	1130	KVEC	1200	KWOS	1310	TIOS	940	WAPI	1140
KPQ	1500	KSLM	1360	KVFD	1370	KWSC	1220	TIPG	625	WAPQ	1420
KPRC	920	KSO	1430	KVGB	1370	KWTO	560	TIRCC	1200	WARD	1400
KQV	1380	KSOO	1110	KVI	570	KWYO	1370	TIRŞ	920	WARM	1370
KQW	1010	KSRO	1310	KVIC	1310	KXA	760	TIXD	800	WASH	1270
KRBC	1420	KSTP	1460	KVNU	1200	KXL	1420	TI4NRH	725	WATL	1370
KRBM	1420	KSUB	1310	KVOA	1260	KXO	1500	TI5CV	575	WATN	1210
KRE	1370	KSUN	1200	KVOD	630	KXOK	1250	VAS	685	WATR	1290
KRGV	1260	KTAR	620	KVOE	1500	KXOX	1210	VOCM	1040	WATW	1370
KRIC	1420	KTBS	1450	KVOL	1310	KXRO	1310	VONF	640	WAVE	940
KRIS	1330	KTEM	1370	KVOO	1140	KXYZ	1440	VOGY	840	WAWZ	1350
KRJF	1310	KTFI	1240	KVOR	1270	KYA	1230	VOAC	1065	WAYX	1200
KRKD	1120	KTHS	1060	KVOS	1200	KYAN	1370	VOAR	950	WAZL	1420
KRKO	1370	KTKC	890	KVOX	1310	KYCA	1500	VOWR	700	WBAA	890
KRLC	1390	KTMS	1220	KVRS	1370	KYOS	1040	WAAB	1410	WBAB	1200
KRLD	1040	KTOH	1500	KVSF	1310	KYSM	1500	WAAF	920	WBAL	760
KRLH	1420	KTOK	370	KVSO	1210	KYUM	1210	WAAT	940	WBAL	1060
KRMC	1370	KTRB	740	KVWC	1500	KYW	1020	WABC	860	WBAP	800
KRMD	1310	KTRH	1290	KWAL	1420	TGQ	1450	WABI	1200	WBAX	1210
KRNR	1500	KTRI	1420	KWAT	1210	TGW	1520	WABY	1370	WBBC	1400
KRNT	1320	KTSA	550	KWBG	1420	TGX	400	WACO	1420	WBBL	1210

HIX	800	KDON	1210	KFJM	1410	KGDE	1200	KHJ	900	KMLB	1200
HIZ	1370	KDRO	1500	KDLR	1210	KGDM	1100	KHQ	590	KMMJ	740
H18Q	1470	KDTH	1340	KDNT	1420	KGEK	1200	KHSL	1260	KMO	1330
HOK	640	KDYL	1290	KFJZ	1240	KGER	1360	KHUB	1310	KMOX	1090
HRN	1450	KECA	780	KFKA	880	KGZE	1310	KICA	1370	KMPC	710
KABC	1420	KELA	1440	KFKU	1220	KGFF	1420	KID	1320	KMTR	570
KABR	1390	KELD	1370	KFNF	890	KGFI	1200	KIDO	1350	KMYC	1420
KADA	1200	KELO	1200	KFOR	1210	KGFL	1370	KIDW	1420	KMYR	1310
KALB	1210	KENO	1370	KFOX	1250	KGFW	1310	KIEM	1450	KNEL	1500
KALE	1300	KERN	1380	KFPL	1310	KGFX	630	KIEV	850	KNOW	1500
KANS	1210	KEUB	1420	KFPW	1370	KGGF	1010	KINY	1450	KNX	1050
KARK	890	KEVR	1370	KFPY	890	KGGM	1230	KIRO	710	KOA	830
KARM	1310	KEX	1160	KFQD	780	KGHF	1320	KIT	1250	KOAC	550
KASA	1210	KEYS	1500	KFRC	610	KGHI	1200	KITE	1530	KOAM	790
KAST	1200	KFAB	770	KFRO	1340	KGHL	780	KIUL	1210	KOB	1180
KATE	1420	KFAC	1300	KFRU	630	KGIR	1340	KIUN	1370	KOBH	1370
KAWM	1500	KFAM	1420	KFSD	600	KGIW	1420	KIUP	1370	KOCA	1210
KBIX	1500	KFAR	610	KFSG	1120	KGKL	1370	KJBS	1070	KOCY	1310
KBIZ	1210	KFBB	1280	KFUN	1420	KGKO	570	KJR	970	KOH	630
KBKR	1500	KFBC	1420	KFUO	830	KGKY	1500	KLAH	1210	KOIL	1260
KBND	1310	KFBI	1050	KFVD	1000	KGLO	1210	KLBM	1420	KOIN	940
KBPS	1420	KFBK	1490	KFVS	1370	KGLU	1420	KLCN	1290	KOKO	1370
KBST	1500	KFDA	1200	KFWB	950	KGMB	1320	KLO	1400	KOL	1270
KBTM	1200	KFDM	560	KFXD	1200	KGNC	1410	KLPM	1360	KOMA	1480
KBWD	1350	KFDY	780	KFXJ	1200	KGNF	1430	KLRA	1390	KOME	1310
KCKN	1310	KFEL	920	KFXM	1210	KGNO	1340	KLS	1280	KOMO	920
KCMC	1420	KFEQ	680	KFYO	1310	KGO	790	KLUF	1370	KONB	1500
KCMO	1450	KFGQ	1370	KFYR	550	KGU	750	KLX	880	KONO	1370
KCRC	1360	KFH	1300	KGA	1470	KGVO	1260	KLZ	560	KOOS	1200
KCRJ	1310	KFI	640	KGB	1330	KGW	620	KMA	930	KORE	1420
KDAL	1500	KFIO	1120	KGBU	900	KGY	1210	KMAC	1370	KORN	1370
KDB	1500	KFIX	1420	KGBX	1230	KHAS	1200	KMBC	950	KOTN	1500
KDFN	1440	KFJB	1200	KGCU	1240	KHBC	1200	KMED	1410	KOVC	1500
KDKA	980	KFJI	1210	KGCX	1450	KHBG	1210	KMJ	580	KOVO	1210

KOWH	660	KROC	1810	KTSM	1350	KWEW	1500	TGI	1310	WADC	1320
KOY	550	KROD	1500	KTSW	1370	KWFC	1310	TIAFB	900	WAGA	1450
KPAB	1500	KROW	930	KTUC	1370	KWFT	620	TIEMC	860	WAGE	620
KPAC	1220	KROY	1210	KTUL	1400	KWG	1200	TIEP	830	WAGF	1370
KPDN	1310	KRRV	880	KTW	1220	KWJB	1210	TIFA	1000	WAGM	1420
KPFA	1210	KRSC	1120	KUIN	1310	KWJJ	1040	TIGH	690	WAIM	1200
KPFT	1210	KSAC	580	KUJ	1370	KWK	1350	TIGPH	605	WAIR	1250
KPHO	1200	KSAL	1120	KUOA	1260	KWKH	1100	TIGPH2	1225	WAJR	1200
KPLC	1500	KSAN	1420	KUSD	890	KWLC	1270	TIHO	1030	WAKR	1530
KPLT	1500	KSCJ	1550	KUTA	1500	KWLK	1370	TILJ	775	WALA	1380
KPMC	1550	KSD	550	KVAK	1420	KWLM	1310	TILS	880	WALB	1230
KPO	680	KSEI	900	KVAN	880	KWNO	1200	TINBC	1070	WAML	1310
KPOF	880	KFSO	560	KVCV	1200	KWOC	1310	TING	750	WAOV	1420
KPPC	1210	KSL	1130	KVEC	1200	KWOS	1310	TIOS	940	WAPI	1140
KPQ	1500	KSLM	1360	KVFD	1370	KWSC	1220	TIPG	625	WAPO	1420
KPRC	920	KSO	1430	KVGB	1370	KWTO	560	TIRCC	1200	WARD	1400
KQV	1380	KSOO	1110	KVI	570	KWYO	1370	TIRS	920	WARM	1370
KQW	1010	KSRO	1310	KVIC	1310	KXA	760	TIXD	800	WASH	1270
KRBC	1420	KSTP	1460	KVNU	1200	KXL	1420	TIANRH	725	WATL	1370
KRBM	1420	KSUB	1310	KVOA	1260	KXO	1500	TISCV	575	WATN	1210
KRE	1370	KSUN	1200	KVOD	630	KXOK	1250	VAS	685	WATR	1290
KRGV	1260	KTAR	620	KVOE	1500	KXOX	1210	VOCM	1040	WATW	1370
KRIC	1420	KTBS	1450	KVOL	1310	KXRO	1310	VONF	640	WAVE	940
KRIS	1330	KTEM	1370	KVOO	1140	KXYZ	1440	VOGY	840	WAWZ	1350
KRJF	1310	KTFI	1240	KVOR	1270	KYA	1230	VOAC	1065	WAYX	1200
KRKD	1120	KTHS	1060	KVOS	1200	KYAN	1370	VOAR	950	WAZL	1420
KRKO	1370	KTKC	890	KVOX	1310	KYCA	1500	VOWR	700	WBAA	890
KRLC	1390	KTMS	1220	KVRS	1370	KYOS	1040	WAAB	1410	WBAB	1200
KRLD	1040	KTOH	1500	KVSF	1310	KYSM	1500	WAAF	920	WBAL	760
KRLH	1420	KTOK	370	KVSO	1210	KYUM	1210	WAAT	940	WBAL	1060
KRMC	1370	KTRB	740	KVWC	1500	KYW	1020	WABC	860	WBAP	800
KRMD	1310	KTRH	1290	KWAL	1420	TGQ	1450	WABI	1200	WBAX	1210
KRNR	1500	KTRI	1420	KWAT	1210	TGW	1520	WABY	1370	WBBC	1400
KRNT	1320	KTSA	550	KWBG	1420	TGX	400	WACO	1420	WBBL	1210

WBBM 770	WCAT 1200	WDAF 610	WENY 1200	WGAL 1500	WHAZ 1300
WBBR 1300	WCAU 1170	WDAK 1310	WEOA 1370	WGAN 560	WHB 860
WBBZ 1200	WCAX 1200	WDAN 1500	WERC 1500	WGAR 1450	WHBB 1500
WBCM 1410	WCAZ 1070	WDAS 1370	WEST 1200	WGAU 1310	WHBC 1200
WBEN 900	WCBA 1440	WDAY 940	WESX 1200	WGBB 1210	WHBF 1240
WBHP 1200	WCBD 1080	WDBJ 930	WEVD 1310	WGBF 630	WHBI 1250
WBIG 1440	WCBI 1370	WDBO 580	WEW 760	WGBI 880	WHBL 1300
WBIR 1210	WCBM 1370	WDEF 1370	WEXL 1310	WGBR 1370	WHBQ 1370
WBLJ 1200	WCBS 1420	WDEL 1120	WFAA 800	WGCM 1210	WHBU 1210
WBLK 1370	WCBT 1200	WDEV 550	WFAM 1200	WGES 1360	WHBY 1200
WBML 1420	WCCO 810	WDGY 1180	WFAS 1210	WGGA 1210	WHCU 850
WBNS 1430	WCED 1200	WDLP 1200	WFBC 1300	WGH 1310	WHDF 1370
WBNX 1350	WCFL 970	WDMJ 1310	WFBG 1310	WGIL 1500	WHDH 830
WBNY 1370	WCHS 580	WDNC 1500	WFBL 1360	WGKV 1500	WHDL 1420
WBOC 1500	WCHV 1420	WDOD 1280	WFBM 1230	WGL 1370	WHEB 740
WBOW 1200	WCKY 1490	WDRC 1330	WFBR 1270	WGN 720	WHEC 1430
WBRB 1210	WCLE 610	WDSM 1200	WFCI 1390	WGNC 1420	WHFC 1420
WBRC 930	WCLO 1200	WDSU 1250	WFDF 1310	WGNV 1220	WHIO 1260
WBRE 1310	WCLS 1310	WDWS 1370	WFEA 1340	WGOV 1420	WHIP 1480
WBRK 1310	WCMI 1310	WDZ 1020	W FAR 1310	WGPC 1420	WHIS 1410
WBRW 1310	WCNC 1370	WEAF 660	WFIG 1310	WGR 550	WHIZ 1210
WBRY 1530	WCNW 1500	WEAN 780	WFIL 560	WGRB 1200	WHJB 620
WBT 1080	WCOA 1340	WEAU 1050	WFLA 620	WGRC 1370	WHK 1390
WBTH 1370	WCOC 880	WEBC 1290	WFMD 900	WGRM 1210	WHKC 640
WBTM 1370	WCOL 1200	WEBQ 1210	WFMJ 1420	WGST 890	WHKY 1370
WBZ 990	WDOP 1120	WEBR 1310	WFNC 1340	WGTC 1500	WHLB 1370
WBZA 990	WCOS 1370	WEDC 1210	WFOR 1370	WGTM 1310	WHLD 1260
WCAD 1220	WCOU 1210	WEED 1420	WFOY 1210	WGY 790	WHLS 1370
WCAE 1220	WCOV 1210	WEEI 590	WFPG 1420	WHA 940	WHMA 1420
WCAL 760	WCPO 1200	WEEU 830	WFTC 1200	WHAL 950	WHN 1010
WCAM 1280	WCRW 1210	WELI 930	WFTL 1370	WHAI 1210	WHO 1000
WCAO 600	WCSC 1360	WELL 1420	WFTM 1210	WHAM 1150	WHOM 1450
WCAP 1280	WCSH 940	WEMP 1310	WFVA 1260	WHAS 820	WHOP 1200
WCAR 1100	WDAE 1220	WENR 870	WGAC 1210	WHAT 1310	WHP 1430



WHUB 1370	WJBY 1210	WKIP 1420	WMAM 570	WMWH 1420	WOV 1100
WHYN 1370	WJBW 1200	WKNY 1500	WMAN 1370	WMVA 1420	WOW 590
WIBA 1280	WJDX 1270	WMAQ 670	WMAZ 1180	WNAB 1420	WOWO 1160
WIBC 1050	WJEJ 1210	WMAS 420	WMBC 1420	WNAC 1230	WPAB 1340
WIBG 970	WJHL 1200	WKOK 1210	WMBD 1440	WNAD 1010	WPAD 1420
WIBM 1370	WJHO 1370	WKPA 1120	WMBG 350	WNAX 570	WPAR 1420
WIBU 1210	WJHP 1290	WKPT 1370	WMBH 1420	WNBC 1380	WPAT 900
WIBW 580	WJIM 1210	WKRC 550	WMBI 1080	WNBF 1500	WPAX 1210
WIBX 1200	WJJD 1130	WKST 1250	WMBO 1310	WNBH 1310	WPAY 1370
WICA 940	WJLS 1210	WKY 900	WMBR 1370	WNBX 1260	WPEN 920
WICC 600	WJMC 1210	WKZO 590	WMBS 1420	WNBZ 1290	WPIC 780
WIL 1200	WJMS 1420	WLAC 1470	WMC 780	WNEL 1290	WPID 1210
WILL 580	WJNO 1200	WLAK 1310	WMCA 570	WNEW 1250	WPRA 780
WILM 1420	WJOB 1200	WLAP 1420	WMEX 1470	WNLC 1500	WPRO 630
WIND 560	WJPF 1310	WLAV 1310	WMFD 1370	WNOE 1420	WPRP 1420
WING 1380	WJPR 1310	WLAW 680	WMFF 1310	WNOX 1010	WPTF 680
WINN 1210	WJR 750	WLB 760	WMFG 1210	WNYC 810	WQAM 560
WINS 1180	WJRD 1200	WLBC 1310	WMFJ 1420	WQAI 1190	WQAN 880
WINX 1310	WJSV 1460	WLBJ 1310	WMFR 1200	WOC 3370	WQBC 1360
WIOD 610	WJTN 1210	WLBL 900	WMGA 1370	WOCB 1210	WQDM 1390
WIP 610	WJW 1210	WLBZ 620	WMIN 1370	WOI 640	WQXR 1550
WIRE 1400	WJZ 760	WLEU 1420	WMJM 1500	WOKO 1430	WRAK 1370
WIS 560	WKAQ 1240	WLLH 1370	WMMN 890	WOL 1230	WRAL 1210
WISE 1370	WKAR 850	WLNH 1310	WMOB 1200	WOLF 1500	WRAP 1310
WISN 1120	WKAT 1500	WLOF 1200	WMOG 1500	WOLS 1200	WRBL 1200
WIZE 1310	WKBB 1500	WLOG 1200	WMPC 1200	WOMI 1500	WRC 950
WJAC 1370	WKBH 1380	WLOK 1210	WMPS 1430	WOMT 1210	WRDO 1370
WJAG 1060	WKBN 570	WLOL 1300	WMRC 1500	WOPI 1500	WRDW 1500
WJAR 890	WKBO 1200	WLPM 1420	WMRN 1500	WOR 710	WREC 600
WJAS 1290	WKBV 1500	WLS 870	WMRO 1250	WORC 1280	WREN 1220
WJAX 900	WKBW 1480	WLTH 1400	WMSD 1420	WORD 1370	WRGA 1500
WJBC 1200	WKBZ 1500	WLVA 1200	WMSL 1370	WORK 1320	WRJN 1370
WJBK 1500	WKEU 1500	WLW 700	WMT 600	WORL 920	WRNL 880
WJBO 1120	WKGK 940	WMAL 630	WMUR 610	WOSU 570	WROK 1410

WRR	1280	WSPD	1340	WTOL	1200	XEBA	1080	XEDW	1150	XEMO	860
WRUF	830	WSPR	1140	WTRC	1310	XEBC	1240	XEE	1210	XEMU	580
WRVA	1110	WSTP	1500	WTRY	950	XEBG	820	XEF	1450	XEBX	1280
WSAI	1330	WSTV	1310	WTSP	1370	XEBH	930	XEFB	870	XEN	780
WSAJ	1310	WSUI	880	WVFW	1400	XEBI	1000	XEFC	1340	XENT	990
WSAM	1200	WSUN	620	WWDC	1420	XEBJ	1340	XEFE	910	XEOA	750
WSAN	1440	WSVA	550	WWJ	920	XEBK	1080	XEFI	1440	XEON	750
WSAR	1450	WSVS	1370	WWL	850	XEBL	1220	XEFM	1160	XEOX	1230
WSAU	1370	WSYB	1500	WWNC	570	XEBO	1330	XEFO	940	XEP	1160
WSAV	1310	WSYR	570	WWNY	1270	XEBP	1150	XEFG	1010	XEPN	740
WSAY	1210	WTAD	900	WWRL	1500	XEBS	1340	XEFV	1210	XEPP	1400
WSAZ	1190	WTAG	580	WWSW	1500	XEBU	1240	XEFW	1310	XEQ	730
WSB	740	WTAL	1310	WWVA	1160	XEBW	1340	XEG	1230	XEQK	1500
WSBC	1210	WTAM	1070	WXYZ	1240	XEBX	640	XEH	740	XERA	840
WSBT	1360	WTAQ	1330	W8XO	700	XEBZ	810	XEHK	1230	XERB	1090
WSFA	1410	WTAR	780	XEA	1400	XEC	1150	XEHR	1230	XERC	830
WSGN	1310	WTAW	1120	XEAA	750	XECA	1230	XEI	1370	XERH	1430
WSIX	1210	WTAX	1210	XEAC	980	XECH	1490	XEJ	1020	XERK	1450
WSJS	1310	WTBO	800	XEAD	1240	XECL	1110	XEJP	1130	XES	990
WSKB	1200	WTCM	1370	XEAF	1000	XECW	1240	XEJR	1490	XESM	1270
WSLB	1370	WTCN	1250	XEAG	1310	XECZ	1370	XEK	1000	XET	690
WSLI	1420	WTEL	1310	XEAI	1250	XED	1160	XEKL	1240	XETB	1310
WSLS	1500	WTHT	1200	XEAJ	1400	XEDA	1220	XEKR	1280	XEU	1010
WSM	650	WTIC	1040	XEAM	750	XEDE	1400	XEKS	1240	XEW	890
WSMB	1320	WTJS	1310	XEAO	660	XEDF	810	XEL	1150	XEWE	720
WSNJ	1210	WTMA	1210	XEAP	1340	XEDH	1340	XELK	1230	XEX	1310
WSOC	1210	WTMC	1500	XEAS	1160	XEDJ	1450	XELO	670	XEXB	1270
WSOO	1200	WTMJ	620	XEAT	1210	XEDL	1240	XELV	1340	XEXE	1270
WSOY	1310	WTMV	1500	XEAU	1400	XEDP	1080	XELZ	1370	XEXH	1150
WSPA	920	WTNJ	1280	XEAW	960	XEDR	1490	XEM	1390	XEXX	1170
WSPB	1420	WTOC	1260	XEB	1030	XEDS	1400	XEME	1240	XEY	1450

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## RADEXING . .

(Continued from page 10)

on the time—though it may sound a bit unusual! (T. E. Smith, Orlando, Fla.)

### T. P. Topics

**Japan:** A station on 870 kcs. heard from 5-5:30 a.m. with a weak signal. It faded completely several times and was unable to identify anything but the oriental language. (Edward Laudansky, Dorchester, Mass.)

**New Zealand:** 1YA in Auckland was heard on the morning of January 26th with good signals. (George Wetherill.)

Thanks to every Radexer helping compile this month's news and get going on those RADEX Contest veries! It will be appreciated if you will report on one side of a sheet of paper only and kindly enclose stamp if you require an answer to your letter. Otherwise it will be acknowledged in this column.

## Quick Index

The 1940 issues of RADEX may be purchased for the regular price of 25c each. A quick index of features which have appeared in RADEX this year follows:

**Jan.-Feb.** High Frequency Broadcasting Stations; Radio Stations from 4320 to 5750 kcs; North American Broadcasting Stations with Week-day time on the air.

**Mar.-Apr.** International Prefixes; Radio Stations from 5858 to 8580 kcs.; North American Broadcasting Stations with mailing addresses.

**May-June** Turner Dial Discusses Servicing; Venezuela Stations; Peruvian Stations; La Paz, Bolivia Stations; Colombian Stations; Frequency Checks; Radio Stations from 8600 to 15270 kcs.; North American Broadcasting Stations with names of verification signers.

**Julg-Aug.** Radio Stations from 15280 to 39360 kcs.; Frequency Modulation Channels.

**Sept.-Oct.** The Radex Contest: QSA and R Codes; This Hobby Called DXing; The Spanish Alphabet; International Prefixes; Radio Stations from 39380 to 138960 kcs.; Television Stations; Frequency Modulated Stations.

**Nov.-Dec.** Proposed Reallocations and their Effect; Commencing a new complete list of the World's Radio Stations, frequencies 1600 to 2490; this list includes the police stations of North America.

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