

RADIO IN DEX

The All-Wave Radio Log Authority

NSE

No. 137

MAY - JUNE, 1940

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*The Names of Verification
Signers are given
In the List of North
American Broadcasting
Stations*

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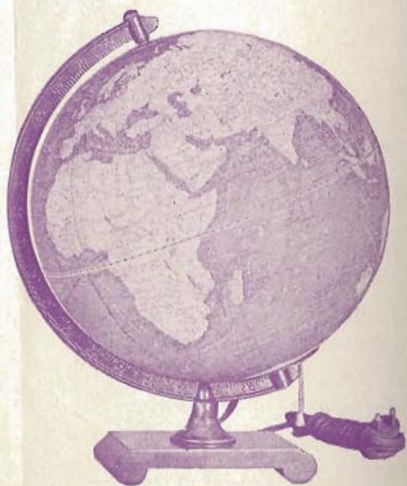
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SIXTEENTH YEAR

MAY 1, 1940

NO. 137

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FOR SALE AT YOUR NEWSSTAND

HAM HOUNDING

By OWEN P. CALLIN

Since there are contests now going on for the DXers of the broadcast bands and of the shortwaves, it seems fitting and proper that the bearcats of the ham bands should have a chance to shine in the glory of their accomplishments, and it is in our mind to give them that chance.

Merton T. Meade, the Kansas City DXer, started us on the idea and here is the plan we conceived:

First of all, to give newcomers to the fascinating game of ham Dx a chance to shine, one part of our contest would deal with those who obtained the most verifications from the most countries between certain dates, the contest to run for a year.

For example, suppose we select the days between July 1, 1940 and July 1,

Send your reports for Ham Hounding direct to

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

1941. Whoever receives the most veri points between those dates will get a prize.

To figure the veri point, the system used in the ARRL DX Contests would be used. The number of veris multiplied by the number of different countries represented would be the contestant's score. The contestant making the highest score in the year would win first place.

The other part of the contest would give the old-timer a break,

If you are interested send in a card or letter right away telling us so, and if enough want the contest we'll go into a huddle and decide more details and announce them in the next issue.

The ARRL DX contest brought a lot of those hibernating South American amateurs out into the open, declares John Brimmer, R1366. He tuned in over a dozen different new ones in a half hour on 20-meter fone.

John and several others have also suggested that to have time for those who wish to write directly to me my address should be printed in a box at the head of the column. This has been done, and those who want to write me direct may do so. However, those with lists of calls heard should send them to Radex Publ. Co., Emerson, N. J., as usual.

We welcome to our ranks James Kavanaugh, R2000, of Ft. Wayne, Ind. James is listening post observer of Indiana and also is DX editor of the Penn Radio Club. His first report logs such catches as XU1A and XU-1B.

That fast-growing and compact body of amateurs in Cuba, the Radio Club de Cuba, has just recently reorganized with election of officers. The club puts out a monthly magazine dealing not only with amateur radio in Cuba but also with DX notes valuable to the SWL. Throughout the magazine one may see notes by familiar names in the radio DX field.

New members of the board of the club are: Pablo Valdes, president; Justo Mahia Rivas, vice-president; Eduardo Oliva Radelat, secretary; Aquiles Ortiz, vice-secretary; treasurer, Julio Rodriguez; Miguel Aguilera, vice-treasurer. Directors: Enrique Anca, Rafael Bordenave, James D. Bourne, Arturo Miles, Jose Luis Garcia, Gerardo G. Erviti, Alfredo Duarte, Guillermo Madrid, Oscar Jaime,

Jr., Tte Ramon Alberto Florez, Enrique Armand, Agustín Veiga, Mateo la Torre, Sixto E. Garcia, Adolfo Leonard, and Francisco Miguel.

We have some interesting personalities for our parade of hams this month. All four are in Europe and all have been shut down. Incidentally, those ops shut down by the war unless occupied with military duties, are as ardent SWL's now as we are. Unable to transmit, they must sit and listen, since they are unable to forego entirely the hobby that has kept them in their leisure hours.

PAoCS lives in the village of Menuldum, Netherlands. His past is unique, since he is the only ham we know who is a bicycle racer and trick rider. From 1933 to 1938 he participated in races and exhibitions throughout Europe, winning many medals and first prizes for his skill with a two-wheeled vehicle.

For a year he worked in the Philips radio factory but the lack of sunshine was undermining his health, so he took a position as teacher in the public work department of the Netherlands, his present occupation.

His experience with antennas is a saga. His first was a small one with which he worked his locality. The next was 120 meters long attached to the highest tower of his village, 45 meters high. But he was unable to work DX with this one, so he erected a 10-meter vertical Zepp, and with this has contacted over 50 countries all over the world.

His receiver is a Hallicrafter Sky Buddy.

F8UE is one of the better known amateurs in France, since he has been on the air 1929 and has made since then some 13,000 QSO's. His name is Doctor G. Le Rasle, and he practices medicine at Ingre, France.

Until about two years ago he was not very interested in DX, but studied diagrams and the tubes of his radio in connection with disease and the results of short wave action on the body.

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A short while before the war, he turned his attention to the study of antenna and long-distance QSO's being necessary to obtain results, he asked for—and got them!

"But I am not the one to stay up all night nor arise at 4 in the morning to call Australia," he explains.

He has three antenna, a three-element beam for 20, a 66-ft. centered for 3.5, 7, and 28 mc. work, and for 3.5 mcs. he ties the two feeders together on the latter and tunes the whole antenna.

His card is plain white, with large red letters.

G8SW is known around the world as "8 Short Waves. Situated in the heart of Middlesex, the station was operated by two brothers, Bob and Frank—last name, Henning.

The brothers, beginning operations in June, 1937, have had their share of interesting experiences. High voltage power lines run near the QRA, and when the antenna was erected, Bob complained of having been stung by a wasp. Further investigation disclosed that the antenna had picked up a good bit of juice from the power line and was "live." When Bob picked up the end he made an excellent conductor to the ground! In the future the antenna was carefully grounded before the experimenters began working!

Frank had the other unusual experience which nearly proved fatal. He unthinkingly cleaned the crystal in an enclosed place and inhaled considerably more carbon tetrachloride than was healthy.

With the local hams the boys have earned the title "The Wicked Brothers," although they saw no reason for it. It certainly was not the fault of the transmitter which was quite a modest affair.

Let's hope this happy pair will soon have a chance to get back on the air. When they do, they warn, they intend to put up an 8JK beam, so "an-

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chor the receiver to the bench and disconnect the R meter."

OK, fellows, we're waiting.

CTIQA—This station is a favorite, too, being heard regularly in the states on a low power of 32 watts when the band is right. The operator is Jayme Varela Santos, of Estremoz, Portugal.

He is a lieutenant in the 3rd Horse Regiment of the Portuguese army, and is 30 years old. He says that he "loves passionately the ham radio."

He has two antennas, a single wire Hertz and a one-section 8JK rotary which he says does very well. The receiver is a "poor" super-het with home-made pre-selector. His DX includes VK, most of South America, North America, and all of Europe.

All amateur affairs have been stopped in Portugal by the government, says Jayme. Let's hope, he, too, will be back on the air again soon, and not waving a sword from the saddle of a horse, as he charges into battle!

That concludes the personality parade, but hang on and we'll delve into the reports to see if we can dig up some dope about stations still on the air.

ALASKA—A new K7 is reported by Cliff Tavener and Joe Jones (R11-78), K7BUB. He is heard very well between 8:30 and 9:30 p.m. on 20-meter fone. Ralph Kastner received a swell card from K7GZH. QRA is Alan A. Duff, Naval Radio Station, Dutch Harbor. K7AOC is R. W. McCrary, Box 111, Juneau.

ALGERIA—We have no information as to whether the FA stations have been chased by war, but try listening for FA 3 HC on 20-meter phone. He is Rene Plieber, 43 rue Fontaine Bleue, Alger.

ARGENTINA — LUIJE says that his correct mailing address is Mitre 8 instead of Laprida 4 as in the call-book, according to John Brimmer.

BURMA — XZ2EZ is the 20-meter
phone station heard occasionally in

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the U. S. He is Khin Maung Bo, 82
Inya Rd., University P. O., Rangoon.

CANTON ISLAND—KF6JEG is the new one reported by two Radexers, Cliff Tavener and George Boscawen (R1576). He is heard every night on about 14200 kcs. at 9:30 p.m., and seems to have a regular schedule with W6AED.

CHILE—CE3CG sends a beautiful card in black and white ink effect, showing an SWL in the guise of a robber holding up the "ham" and demanding a card !!! Since he also is an ardent stamp collector he will send his QSL upon receipt of used United States stamps of unusual denominations.

CHINA—No new reports have been received of the XU's, but XU8RB still seems to be heard occasionally.

COLOMBIA—Can anyone help Bill Wells? Who is the HK8—on 40-meter phone? Bill also lists HK1PAA, Barranquilla, on 20-meter phone using only 25 watts.

DOMINICAN REPUBLIC—HI1-AA on an airplane 30 minutes out of Port-au-Prince was heard by Walter Welch, Lynn, Mass., with HI3N at the mike on 6210 kcs. HI3N was in contact with his home station on 75 meters and also with W1CND on the same band. All three stations were heard.

ECUADOR—HC1JB listed on 10 meters (28370 kcs) by Bill Jones, Dallas. On 40 meters HC1PC was having a cross-band QSO with a W8 on 75 meters. HC1FG logged relaying a sports event Feb. 17 just below 40 meters.

GREECE—Tom Ryan, Jr., says that SVIKE QSL's, but that he will only answer 100 percent correct reports. The card has a faint picture of the Parthenon printed upon it.

GREENLAND — We wonder if OX7ZL is still on 20-meter phone. Very occasionally he has been heard but no late reports have we had. He is Stilling Berg, Angmagssalik, East Greenland.

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GUANTANAMO BAY—NY4AD is a consistent 10-meter ham, the QRA Truman O. Moore, U. S. Naval Station, Guantanamo Bay, Cuba.

HAWAII—Our San Francisco observer, George Boscawen, says that K6BNR is the best K6 on the air, and that the station often checks frequencies for other stations who call him. A personal list of non-QSLers, although we sent postage, follows: AKP, CMC, ETF, IAE, ILT, LEJ, LKN, NYD, OFW, OQE PPR and QDL. What luck have you had, listeners?

ITALY—Roy Blackburn of Sydney, Nova Scotia (R1365) sends the first report for a long time of an I station, 11JKV, heard at 2:15 p.m. working W1's and W4's. He told his contacts he was using 300 watts, with an antenna beamed on North America.

JAVA—Although the PK's are supposed to be off the air many are operating surreptitiously, and listeners have listed PK1OG and PK3GD recently. 1OG was heard in a QSO with W6ITH.

MEXICO — XE2FC tells reporters that SWL reports are always welcomed and saved, and he is glad to verify correct listings. His card shows the interior of a room with two musicians, guitar and flute, and a man and woman doing a dance around the brim of a large hat. Two spectators watch. This report from our Sydney, N. S., observer comes as a result of noting the QRA given in these columns. That's what these columns are for, Roy, to pass along information helping the DX fan.

NICARAGUA—Merton Meade lists the QRA of YNU-1 as La Laz 9, Limited, Siuna, Nicaragua. The op is from Salt Lake City. YN1AZ is being reported. He is Maj. H. J. Phillips, Guardia Nacional, Nicaragua.

PARAGUAY—There are three ham stations in Paraguay on 20 meters reports Bill Wells, ZP2AA, ZP3AC, and ZP6AB. The ops speak very little English and do not QSO with American hams.

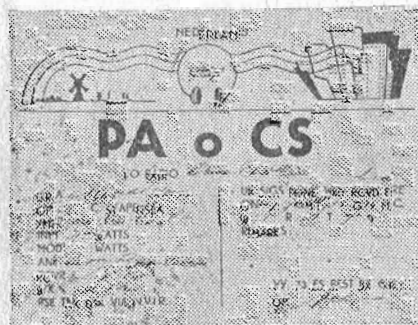
PERU — Roy Blackburn received the first card made out to an SWL by OA41, Raymond I. Betts, Reducto 670, Miraflores.

EL SALVADOR—Those who reported YS2LR should feel lucky if they received his card, since the station is no more. If you have sent him a report and have not received his card, try him again at Varel S. Grimes, 325 W. 15th St., Brownsville, Texas. Grimes will soon be on the air with a W5 call. Two new stations on 20 meter phone in Salvador are YS1MM and YS1OL. We do not have the QRA's.

UNITED STATES—W6MGB talks Spanish like a native and works only South America and Central America DX. W6AED can usually be counted on for long DX, so if you hear him on the air, listen for a while.

That's all the reports we have this time, and although they were in goodly number, still we'd like to have more. So get out your pens, pencils, and typewriters, and tell us your news.

CHATTER: Harry O'Meara spends mornings, afternoons, and nights at the dials of his National SW-3, DX-ing on the 20-meter band. He wants to send a report every every month, for which bless you, Harry, bless you. . . . Walter Welch does quite a bit of listening, too, since he sends in a mammoth list of calls. . . . Roy



The PAoCS QSL card. It is printed in black.

Woollacott (R1566) has a nice collection among which is ZE1JZ on 10 meters. . . . David Thompson (R1459) logged W4FZW and W1FZW within less than minute, both QSA 5 R 9. He has about 80 SL's from hams and 100 from broadcast stations. He's also working for his ham ticket.

FO8AA verified by card Carl Horton (R1305) in 38¹ days! Carl also got his veri from OQ5AB. . . . Richard Loetz wants to know what has happened to the HK's and YN's. What's the matter, Dick, aren't they coming in lately. . . . To Joe Jones: Callbook is published in March, June, September, and December, \$1.25 an issue. If you desire one, write to Page Taylor, Radex Publi. Co., Emerson, N. J. . . . About 70 percent of foreign hams contacted with IRC enclosed have QSLed for Merton Meade. Returns from U. S. hams have been 40 percent. Merton's brother was the op of W9QKS, and when on the air only 50 percent of the stations contacted QSLed. W9QKS was known as "La Voz de los Meade Muchachos" (The Voice of the Meade Brothers) and although now silent since Bob is op at K6PIT, Merton is going to take the exam one of these days and open up the station again.

NX2L was an unlicensed station in the U. S., according to Merton, who overheard a CO talking to him. The CO was bootlegging a call himself, an OK call. . . . For a laugh and good time tune in on CO2JJ's frequency. . . . ON4A heard by John Brimmer on 20-meter CW may be a Belgian operating despite bans. Has anyone else heard him? . . . Who is the CW station N2GG heard by Bill Wells on 3910 kcs?

Well, fans, that winds up the dope for this time. Don't forget to let me know your opinions on the contests and we'll try and get it started by July 1, to give summer listening a tang otherwise not felt in the monotony of static and poor conditions.

RADEX

Amateur Calls Heard

The names and addresses of persons reporting the stations are indicated by small letters following the call signs. Key to the small letters is given at the end of the column.

10 Meters

CO2WM (m); HA1K (m); HC1JB (ahm); HK3CK (a); K4DDH (m); K4EZR (h); K4FOW (m); K4FRN (m); K6BNR (h); K6ICS (a); K6LJJ (a); K6MGD (a); K6MVV (hm); K6MXM (h); K6OQM (h); K6PAS (h); K6PCF (h); K6PCM (h); K6PHD (a); K6PIR (ah); K6PTW (h); K6PUL (a); K6QLZ (a); K6RCB (a); K6RES (a); K6ROJ (ah); K6RVI (a); K6SGJ (h); K6SHG (h); K7ATD (h); LX2OK (m); LX2UU (m); NY4AD (ahm); PY2AC (m); TG-9AA (ah).

20 Meters

CE1AB (g); CE1AC (bn); CE1AD (bn); CE1AO (en); CE1AR (bgh); CE1AS (abh); CE1OX (g); CE1S (g); CE2AM (an); CE2BX (em); CE3AA (f); CE3AG (am); CE3BE (achn); CE3BK (bm); CE3CG (ahi); CE3CZ (bikmn); CE3DE (i); CE3DW (hn); CE3EU (b); CE3EW (a); CE4AC (m); CO2AL (e); CO2AM (gm); CO2BA (bgm); CO2BR (h); CO2DB (g); CO2DR (gm); CO2GA (h); CO2GG (m); CO2GL (bhim); CO2GY (beghim); CO2JH (em); CO2JJ (km); CO2JM (g); CO2JV (m); CO2LY (em); CO2MA (bim); CO2MG (2LA (m); CO2LG (m); CO2LL (h); (chim); CO2RA (k); CO2RC (k); CO2RH (bgm); CO2RL (g); CO2RR (m); CO2RZ (em); CO2SV (hm); CO2XK (m); CO2WL (e); CO2WM (em); CO2WN (k); CO2WS (e); CO2WW (e); CO2YW (im); CO4AA (b); CO4XX (g); CO6OM (im); CO7AB (h); CO7AS (g); CO7CX (hikm); CO7VP (hikm); CO8K (bbm); CO8MP (h); CX-2BK (mn); CX2CO (aemn).

EA7BA (cikn); EA7BB (k); EK1AF (bimn); ES5D (i); HA9Q (i); HC1FG (i); HC1JB (fm); HC2CC (gij); HC2CG (h); HC2HP (ikm); HC2PC (e); HH2B (abghijk); HH2B (bhmn); HH2PB (n); HH5K (a); HH5PA (aikm); HI3N (abehikm); HI5X (hikm); HI6Q (akm); HI7G (afkm); HI7I (m); HK-

RADEX

1PAA (n); HK3CC (afim); HK2CG (a); HK3CI (i); HK3CK (m); HK3CO (f); HK3CY (fm); HK4C (i); HK4DK (fm); HK5EA (i); HP1A (aein); I1JKE (b); I1JNV (i); I1JVV (b); J2NF (b); J2SA (b); J7CB (b).

KA1BB (a); KA1CS (bem); KA1CW KA1LH (g); KA1ME (bgm); KA4LH (am); KA1FH (fgm); KA1LB (gm); 6JZ (a); K4DSE (mn); K4EMG (m); (a); KB6ILT (b); KFJEG (abeh); KF-K4ENT (ak); K4FCD (h); K4FCG (am-BHL (a); K6BJJ (a); K6BNR (abefhm); n); K4FKC (abehikm); K5AM (n); K6-K6CGK (a); K6CMC (eh); K6FDL (ag); K6GAG (j); K6GAS (ahm); K6-GRL (a); K6KRG (ah); K6KUF (g); K6LCV (gh); K6LKN (m); K6MVA (abehm); K6NDA (a); K6NYD (abehijk-m); K6NZQ (h); K6OCH (a); K6-OCV (a); K6OFG (c); K6OJI (aeghm); K6OQE (ah); K6OTH (h); K6PAS (a-h); K6PIT (abehm); K6PLV (g); K6-PLZ (ag); K6PMC (ab); K6PNT (a); K6PRR (ef); K6PTW (abghm); K6PUL (e); K6QHU (eh); K6QMT (a); K6ROJ (e); K6RRJ (e); K6RVU (aehm); K6-SGJ (e); K6THU (a); K6UHL (a); K7-AOC (h); K7BUB (bdhun); K7FJ (an); K7GSC (h); K7GTP (e); K7GZH (a1bh); K7HAR (hn); K7HCX (bgn).

LUIDA (afhimn); LUIDJ (e); LU1HA (n); LU1JC (amn); LU1LB (mn); LU1QA (ahmn); LU1TA (b); LU2BG (m); LU2BT (n); LU2CA (mn); LU3AA (i); LU4BB (a); LU4BH (m); LU4BT (i); LU4CZ (m); LU4DJ (hm); LU4KA (n); LU4XA (bh); LU5AG (m); LU5AN (e-am); LU5HA (b); LU5HE (behmn); n); LU5CK (fmn); LU5CZ (n); LU5DD LU6DJ (amn); LU7AG (m); LU7BC (e); LU7BK (ahn); LU7BU (emn); LU7ET (an); LU8AB (km); LU8DR (m); LU8MC (h); LU9HA (m); LX1B (i); LY1J (ci); LY1S (i).

NY2AD (g); NYAB (ah); NY4AD (a-m); OA3B (h); OA4AI (fh); OA4AL (afh); OA4AS (j); OA4C (gn); OA4R (in); PK1OG (bg); PK1JR (g); PK3GD (g); PY1CK (i); PY1DC (n); PY1GA (f); PY1IM (chm); PY2AC (abghimn); PY2AK (Acemn); PY2CK (m); PY2DA (g); PY2DH (g); PYGC (em); PY2IN (n); PY2IT (imn); PY2KP (g); PY2KT

(m); PY2LN (fg); PY2MI (m); PY3DR (n); PY4BK (n); PY4EJ (m); PY5AQ RV (in); T12AB (am); T12AC (ae); TI-(n); PY6DR (h).

TG9AB (h); TG9BA (aeghim); TG9-2EV (e); T12LR (a); T12RC (ag); T12-RH (n); T12RV (a); T12RZ (ai); T131 AV (a); T14AC (m); T15NA (imn); W-3BOK (1); W9EW (1); W9JPL (1).

XE1A (h); XE1AC (mn); XE1AM (n); XE1AX (n); XE1BO (h); XE1BT (n); XE1BY (n); XE1CA (n); XE1CL (f); XE1CQ (hm); XE1CH (n); XE1-1CZ (n); XE1F (n); XE1G (m); XE1-GE (him); XE1H (n); XE1HR (m); XE1KR (h); XE1Q (h); XE2AC (bm); XE2AD (b); XE2AF (fhi); XE2CN (g); XE2FC (m); XE2FL (mn); XE2FY (h); XE2GA (n); XE2HB (bm); XE2HD (g); XE2HV (g); XE2HY (chm); XE-2IK (m); XE2I2 (g); XE2IZ (h); XE-2LY (k); XE3AH (n); XE3AR (n); XE-3AX (n); XE3BA (h); XE3BK (m); E3BM (m); XE3BM (i); XE3O (in); 11P (aegn); YVAC9 (m); YV1AN (ah-XU1A (f); YU1B (fg); YNV1 (i); YN-m); YV1AP (m); YV1AQ (aefim); YV-1AV (chfmin); YV1DQ (k); YV4AB (a-m); YV4AG (a); YV4AN (m); YV4-efim); YV4ABG (am); YV4AE (afhk-AX (m); YV5ABA (f); YV5ABE (f-hm); YV5ABF (akm); YV5ABQ (m); YV5ABY (m); YV5AC (n); YV5ACA (aefimn); YV5ACE (afmn); YV5ACG (afmn); YV5ACH (mn); YV5ACO (a); YV5AD (a); YV5AE (a); YV5AK (a-m); YV5ATO (a).

The Reporters

- Herbert Bell, Hollis, Okla.
- George Boscowan, San Francisco, Calif.
- Charles Gerran, Jamestown, N. Y.
- Joe Jones, Terre Alta, W. Va.
- Ralph Kastner, New Braunfels, Texas
- James Kavanaugh, Fort Wayne, Ind.
- Richard Loetz, Sturgis, Mich.
- Merton Meade, Kansas City, Mo.
- Harry O'Meara, Manchester, Mass.
- Bertram Podall, Gilman, Vermont
- Victor Samardza, New York City
- R. E. Sparkes, Silverthorn, Y. T., Canada.
- Walter Welch, Lynn, Mass.
- Wm. Wells, Hamilton, Ont.

NEW ZEALAND REPORTS

The following reports are from Alan Breen of Dunedin, New Zealand. While this reception was accomplished in Dunedin, a large number of the stations mentioned can be received in the United States. All time is Eastern Standard.

WWV on its standard frequency transmissions, are heard throughout the evening, from 3 until 8 p.m. EST, with the 440-cycle note and announcement at each ten minute interval.

VLW in Perth came on the end at November, and has been heard on several frequencies, including VLW on 6130, VLW2 on 9650 and VLW3 on 11830 kcs.

VLQ on 9615 and VLQ2 on 11870 kcs are heard with terrific strength and should reach North America with R9 signals.

I2AA at Addis Ababa is being heard from 10 a.m. EST. Their programs include Bing Crosby, Connie Boswell, Judy Garland and the Mills Brothers so it should not be difficult to get material for verifications.

The best reception of "Radio Boy-Landry" at Saigon on 9675 kcs is at 8:15 a.m. EST.

Madagascar apparently did not stay on 5800 kcs for very long as it was heard on its old frequency of 6065 at 11 a.m, closing down with the "Marseillaise." At other times it has been heard signing off at 10:30 a.m.

VLR3 in Melbourne closes at 2:15 a.m. and re-opens at 2:30 a.m. on 9580 kcs.

A Canton station believed to be XGOK is heard daily from before 5 a.m. until after 8:15 a.m. EST. A lady announcer is usually heard, and news is broadcast in English. The frequency is 11650 kcs.

The Formosa transmitter at Tai-hoku is at present operating on 9695 kcs as JIE2, replacing JIE.

A new transmitter at Rangoon, Burma, is now being heard until 10 a.m. on 6050 kcs with excellent signals and with the same program as XYZ on 6007 kcs.

XTY at Chungking is heard irregularly on 14130 kcs.

HS8PJ has not been heard for some weeks and its place seems to have been taken by HSP3 on 7966kcs. Transmissions begin irregularly after 7 a.m. with English news frequently at 8:15, followed by dance music.

The 60 meter band is very good now and the following should reach the east coast of the USA: 4840 kcs VUC2; 4865 kcs YDG5; 4880 kcs VUB2; 4900 kcs YDA. VUC2 is Calcutta India; YDG5 is Batavia, Java, heard at 6 a.m; VUB2 is Bombay, India. YDA is at Batavia, generally on the air after 4:30 a.m. EST.

VUM2 Madras, India is heard on 4920 kcs. YDF, Sourabaya, Java, 4930 kcs, generally heard with programs of native music, YDX at Medan, Sumatra on 4965 kcs.

FK8AA at Noumea, French Guinea, has shifted its frequency to 6135 kcs.

Sample copies of "QSA5", the 16 page printed bulletin of the DXers International Exchange Club, may be secured for five cents postage from the secretary, Merton M. Hiatt, Box 7, Dryden, Wash. Broadcast, short-wave, amateur and ultra-high columns are edited by well-known DXers, with equal emphasis on east and west coast reception. A hobby corner is also included for those wishing to swap cards, stamps, letters, etc.

Turner Dial Discusses Servicing

B. Francis Dashiell

It was a fine spring afternoon and Turner Dial stood at the entrance to Higrade Radio watching the few citizens who were abroad stroll leisurely from shop to shop. Then, as was to be expected, Dial glanced down the street toward the gaudy store front of his rival. Red signs covered the door and window and proclaimed loudly to all that tremendous price reductions were in progress; credit was unlimited; old radios were about worth their weight in gold; and here could be obtained the very best servicing in town for almost nothing.

An amused smile covered Turner's features. But he failed to display any animosity toward this newcomer. Dial was about to turn away when he noticed a man hurry from the store. Certainly, he thought, there was one person who was not afflicted with spring anemia! But the man's hustle did not prevent Turner from observing that he was lugging a radio under his arm. When the man turned and stepped rapidly in the direction of Higrade, Dial thought it more ethical to reenter the store and not subject a competitor's customer to his critical gaze.

But no sooner had Turner entered the building when the man burst in. Placing his table-model radio on the sales counter, the man seemed suddenly to explode. "Say!" he exclaimed in an excited voice, "I like your store. The windows are not smeared with cheap advertising. If you run an honest place can I have this radio fixed without it being necessary to buy an interest in the business?"

Turner Dial smiled tolerantly. This was not the first time he had heard such an outburst during the past few weeks. "I've lived with radio a long time," was his deliberate reply. "And we've repaired a lot of sets so they stayed fixed. Maybe we can help you.

What's the trouble?"



"That outfit down the street advertised a free examination. But they must think I'm a sucker!" shouted the man so loudly that Bill Wood, Higrade's youngest assistant, peered around the repair shop door to see what was happening. "How can I tell what is a fair charge for radio servicing? I guess these 'free' examinations are not so free, 'cause you can make the charge high enough to cover the cost of the examination." And the man glared defiantly at Turner Dial with the air of one who had propounded a smart query that couldn't be fairly answered.

"Oh, no," Turner replied. "Our examinations are free all right. You do not have to have the work done, just as you decided in the case of your place down the street. Most of us give 'free examinations.' All business men are called upon to make estimates or tell what their merchandise sells for. Nothing new to that. Who ever heard of a contractor making a charge for offering a bid on a job?"

"But those grafters down the street wanted to make an outrageous charge," fumed the indignant customer. "One third of the first cost of the set!"

"That could be possible if the dam-

ages are serious," said Turner as he picked up the set and moved toward the service room. The man followed at Dial's request.

"Now, let's make a 'free estimate.' I hate to guarantee prices—exactly." Turner was removing the chassis from the cabinet. "Ordinarily," he added, "my free estimate doesn't include this preliminary, but we have some spare time today. When I make an estimate in a home it's just a part of my pick-up service and not always just a special trip for estimating. Most radios must come to the shop for repairing anyway. However, a good many sets can be attended to at home, for often the troubles are due to tubes, antennas, noisy wires in the home, or some minor defects."

"They were bragging down the street about having all the latest instruments. They give the best scientific servicing in town—so they advertise," the customer remarked sarcastically.

Dial's face reddened. "Sure, modern servicing instruments are fine," he snapped. "But you won't see so many around here. We have all that we need. The newer systems and equipment help those who still have a lot to learn, and enable newcomers to get established quickly as reliable servicemen. But most radio troubles can be diagnosed by common sense and experience. A man can often do this in the time that he is hooking up or lugging around a lot of expensive and elaborate apparatus. For my part, if I were to go to a customer's home with a big array of laboratory instruments, I would feel that he might get apprehensive and decide against making any repairs at that time. But when I take a little tube tester, some pocket tools, a few of the standard tubes, and sit down on the floor to look into the radio, that customer seldom expects to be robbed."

Turner twisted a few knobs, looked at the test meters, and then plugged the plug. "Tubes are o. k." he remarked. "A by-pass condenser seems

to be shot, and perhaps a resistor or two at the same time. Also, this set is terribly dirty, and needs cleaning and an alignment to make it tune properly. We'll do the job for about three dollars."

"Why, those gypers down the street said the power transformer was bad and that a filter condenser had a short circuit!" yelled the excited customer.

"They're all wet!" exclaimed Turner with disgust. "The transformer is good, and the condenser couldn't filter if it was leaking and shorted or grounded. Anyway, if there is anything else, I'll let you know before we run up any extras."

The man moved toward the door. "Fix it up," he insisted.

Bill Wood was an interested listener. "Say, Turner" he declared. "Maybe those birds down the street really are going in for new scientific trouble shooting, signal tracing, and so on."

"Not a chance," answered Turner emphatically. "They wouldn't know any more about it than a hog does about a holiday. It's a fine system, and just about fool proof. But, in effect, we've used it for years. On the other hand you can use a lot of time. That adds to the overhead cost and the charges eventually made for the work you do. If I do say it myself, the kind of tools and system you use as well as the charges you make, depend largely upon the person doing the work."

"How about replacements?" inquired Wood, as he took the opportunity of Turner's communicativeness to talk and do a bit of personal stalling. And how he could do that to perfection when occasion arose!

Dial reached for his pipe. Then he snipped the leads to the charred resistor and series condenser which caused all the discussion. "You've got to make some profit on parts, but there need be no robbery. If the manufacturer has a list price then the cost to the customer should never be a cent higher, and sometimes can be

lower. Remember, customers sometimes have ways of checking from catalogues or actual price lists. Anyone can get 'em if they desire. Labor charges must be based on what it costs to operate, even when one man stands around loafing, like you right now!" But Bill didn't let that remark worry him, and Dial continued: "Servicemen must watch their business methods and operations. When operating costs get too high, charges must go up. If you can't repair a set in a minimum of time so it stays fixed, then you better quit. That's going to be the trouble with our friends down the street."

"What about the public?" continued Wood's quizzing. "Everyone who comes in here seems to believe what we tell 'em. They don't kick about charges. But, boy, oh boy, how they razz those pirates down the street!"

Turner Dial soldered a few wires and dropped into his old squeaky chair. "I think," he began, "that the public is beginning to rely more and more on the modern radio serviceman. And the public use their heads too. They look around a bit. Just like the man that came in here a while ago. People, too, are beginning to look for radio technical men with high business and training standards. Some of 'em are graduates of a reliable radio school, like that National Radio Institute. These men are serious about their work—it's a lifelong job with them. Then many of them are members of the Radio Service of America. Then there are dealer-authorized representatives who have factory training and have excellent understanding of the sets that are turned out by their own manufacturer. And then there are just the humble gents, like myself, who have grown up with radio and can diagnose symptoms with their eyes shut. You know, Bill, it really could be that the cut-throats down the street might not be so blood thirsty after all. For I honestly believe that some of the free estimates and bills handed set owners are not

due to desires to boost prices by taking advantage of a customer who might still look upon radio as a mystery that only some great specialist can understand."

That was a long speech for the usually taciturn Turner Dial. Bill Wood grinned. "I see," he commented. "They raise the price high enough by their 'free examination' to cover any additional troubles that lack of experience causes them to overlook. It's just because they are afraid to trust themselves."

"Exactly," agreed Turner. "Some servicemen are afraid to guess too closely, because they are not sure they know all about the trouble in the set. But the great majority of shops are reliable and honest. Those men have skill and ability, but they can make human mistakes. When that happens they must take the loss instead of soaking the customer a lot of extras."

Bill Wood thought he had at last struck upon a novel idea. "If the disabled set is too much of a problem to the serviceman why can't he ship it back to the factory or the distributor and let them worry about it. After all, it's their product."

Turner blew a smoke ring. "Son," he confided, "you don't know how right you are, and how often that's their solution. But, at that, the customer gets the best repair work in spite of the delay, and the dealer has to charge some of it up to experience."

"Or the lack of it," added Bill, as he turned back to his work bench.

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SHORT WAVE BROADCASTING IN MANCHOUKUO

At present Short Wave Broadcasts for international purposes from Manchoukuo are carried on by the Central Broadcasting Station in Hsinking, MTCY, which is under the direct control of the Manchuria Telephone and Telegraph Company. The Company incidentally operates 15 radio broadcasting stations throughout Manchoukuo.

With the purpose of introducing the young Empire of Manchoukuo to the rest of the world and also of providing interesting entertainment to listeners abroad, what is today called "The Short Wave System" was established with the Hsinking Central Broadcasting Station, on July 20, 1939. Previous to that date, as some of our friends in America know, programs were transmitted from JDY or JQAK, stations operated by the Manchuria Telephone and Telegraph Company. But these programs were not regular and it was not long before the demand for a daily, regular broadcast from Manchoukuo became apparent.

Thus, ever since the 20th of July, 1939, daily programs of news and entertainment were transmitted by short wave in four different directions and at times most suitable to listeners in other countries. Details concerning these transmissions are as follows:

Transmission I—To Europe

MTCY, 20 KW., 11,775 kilocycles or 25.48 meters. 4 to 4:50 p.m. EST.

Transmission II—To The Pacific Coast of North America and The Hawaiian Islands.

MTCY, 20 KW., 11,775 kilocycles or 25.48 meters. 1:30 to 2:20 a.m. EST.

Transmission III—To China, The Philippines, Strait Settlements, Australia, New Zealand, and the South Seas.

MTCY, 20 KW., 11,775 kilocycles or 25.48 meters. 9:50 to 10:55 a.m. EST.

Transmission IV—To Mongolia and Soviet Russia.

MTCY, 20 KW., 6,125 kilocycles or 48.98 meters. 8:30 to 9:30 a.m. EST.

Sequence and news announcements in Transmission I and II are in English only. Three languages, Manchu, Japanese and English are used in Transmission III while Mongolian and Russian are the two languages used in Transmission IV.

We present here a time schedule of our news broadcasts within the four transmissions:

Transmission I—English news 4:05 to 4:15 p.m. EST.

Transmission II—English news 2 to 2:10 a.m. EST.

Transmission III — Japanese news 9:57 to 10:07 a.m. Manchou news 10:10 to 10:20 a.m. English news 10:35 to 10:45 a.m.

Transmission IV — Russian news 8:45 to 8:55 a.m. Mongolian news 9:20 to 9:25 a.m.

As is common with Short Wave Stations, our wave-lengths and times are subject to change when atmospheric and other conditions make such changes necessary. However, these changes will be announced in our regular broadcasts sufficiently ahead of time.

Our purpose lies in the introduction of Manchoukuo to the world, the creation of good-will among Occidental and Oriental peoples and the provision of good wholesome entertainment to listeners abroad. We therefore, welcome criticisms and suggestions concerning our transmissions. If there are any improvements our listeners can think of with regard to our transmission facilities or our program material, we sincerely hope that these will be made known to us.

MTCY

Manchuria Telephone & Telegraph Co.,

Ltd.,

**601 Daido-Traigai,
Hsinking, Manchukuo**

RADEX

RADEX

UNITED STATES OF VENEZUELA OFFICIAL LIST

Short Wave

Call	Slogan	Freq.	Location
YV1RJ	Radio Falcon	4975kc	Coro
YV1RL	Radio Popular	4860kc	Maracaibo
YV1RO	Radio Trujillo	4780kc	Trujillo
YV1RT	La Voz de la Fe	4770kc	Maracaibo
YV1RU	Radiodifusora Maracaibo	4810kc	Maracaibo
YV1RV	Ecos del Zulia	4800kc	Maracaibo
YV1RX	Ondas del Lago	4890kc	Maracaibo
YV1RY	Radio Coro	4910kc	Coro
YV1RZ	Radio Valera	4850kc	Trujillo
YV2RN	La Voz del Tachira	4870kc	San Cristobal
YV3RN	Radio Barquisimeto	4820kc	Barquisimeto
YV3RX	La Voz de Lara	4990kc	Barquisimeto
YV4RO	La Voz de Carabobo	4950kc	Valencia
YV4RP	Radio Valencia	4930kc	Valencia
YV4RQ	Radio Puerto Cabello	5020kc	Puerto Cabello
YV4RX	Radio Marconi	4840kc	Maracay
YV5RH	Ondas Populares	4920kc	Caracas
YV5RK		5000kc	Caracas
YV5RM	Radiodifusora Venezuela	5010kc	Caracas
YV5RN	Radio Caracas	5040kc	Caracas
YV5RO	La Voz de Venezuela	4940kc	Caracas
YV5RS	Radio Libertador	4960kc	Caracas
YV5RT		4980kc	Caracas
YV5RU	Estudios Universo	4830kc	Caracas
YV5RY	Radio Continente	4750kc	Caracas
YV6RT	Radio Bolivar	4900kc	Ciudad Bolivar
YV6RU	Ecos del Orinoco	4880kc	Ciudad Bolivar
YV3RF	La Voz del Llano	3480kc	Acarigua
YV5RV	Emisora Vargas	3500kc	La Guaira
YV5RW	Radio Tropical	3400kc	Caracas
YV5RJ	La Voz de la Patria	3430kc	Caracas
YV6RC	(C.P. ONLY)	3450kc	Barcelona

Long Wave

YV1RA	Ecos del Zulia	1500kc	Maracaibo	250w
YV1RC	La Voz de la Fe	1400kc	Maracaibo	600w
YV1RD	Radiodifusora Maracaibo	1153kc	Maracaibo	250w
YV1RF	Ondas del Lago	1120kc	Maracaibo	300w
YV1RK	Radio Popular	1250kc	Maracaibo	250w
YV2RB	La Voz del Tachira	980kc	San Cristobal	500w
YV3RC	La Voz de Lara	1270kc	Barquisimeto	250w
YV3RE	Radio Barquisimeto	1475kc	Barquisimeto	300w
YV4RA	La Voz de Carabobo	1350kc	Valencia	500w
YV4RE	Radio Valencia	1400kc	Valencia	200w

This list of Venezuelan stations, and the lists of stations in Peru, La Paz, and Colombia, were submitted by William Cunningham of Hollywood, California.

Call	Slogan or Owner	Freq.	Location
YV4RG	Radio Marconi	1153kc	Maracay 200w
YV4RI		1450kc	Valencia 600w
YV4RL		1430kc	Maracay 800w
YV5RA	Radio Caracas	960kc	Caracas 5KW
YV5RB	Radiodifusora Venezuela	1200kc	Caracas 2KW
YV5RE	La Voz de Venezuela	1110kc	Caracas 200w
YV5RG	Ondas Populares	1010kc	Caracas 1KW
YV5RI	Radio Continente	590kc	Caracas 1KW
YV5RL	Radio Tropical	1160kc	El Valle 500w
YV5RQ	Radio Liberator	882kc	Caracas 1KW
YV5RR	Estudios Universo	1010Kc	Caracas 1KW
YV5RZ	Emisora Vargas	1050kc	La Guaira 500w
YV6RA	Ecos del Orinoco	1400kc	Ciudad Bolivar 250w
YV6RD	Radio Bolivar	1450kc	Ciudad Bolivar 250w
YV6RE	Ondas del Neveri	1080kc	Barcelona 500w
YV4RR	Radio Puerto Cabello	1490kc	Puerto Cabello 500w
YV5RX	La Voz de la Patria	720kc	Caracas 1KW
YV1RW	Radio Coro	1370kc	Coro 300w

UNITED STATES OF PERU

Short Wave

OAX1A	J. Carlos Mountjoy D.	6150kc	Chiclayo 200w
OAX2A	Rafael Larco Hoyle	6000kc	Trujillo 250w
OAX4Z	Radio Nacional	6082kc	Lima 15KW
OAX4T	Radio Nacional	9562kc	Lima 10KW
OAX4G	Empresa Peruana Par- lante Bolivar y Carcovich	6230kc	Lima 250w
OAX4I	Radio Internacional	9520kc	Lima 200w
OAX4P	J. Alberto Madueno	5968kc	Huancayo 250w
OAX5C	J. Antonio Umberto F.	9590kc	Ica 150w
OAX6B	Maxime J. Landa	11710kc	Arequipa 150w
OAX7A	Carlos Lizarraga Fisher	6128kc	Cuzco 100w

Long Wave

OAX4A	U.S.P. (See Radio Nacional)	854kc	Lima 10KW
OAX4B	(See OAX4G)	1200kc	Lima 250w
OAX4E	Ing. Juan P. Goicochea	960kc	Lima 200w
OAX4J	(See OAX4I)	1320kc	Lima 250w
OAX4L	Radio Miraflores, S. A.	1250kc	Lima 200w
OAX5B	(See OAX5C)	1280kc	Ica 200w

THE LA PAZ STATIONS

Short Wave

Call	Slogan	Freq.	Power
CP1	Radio del Observatorio S. Calixto	14300kc	500w
CP5	Radio Illimani	6000kc	1KW
CP6	Radio Illimani	9120kc	1KW
CP7	Radio Illimani	15300kc	1KW
CP12	Radio Fides	6255kc	250w

Long Wave

CP3	Radio Nacional	1230kc	5KW
CP4	Radio Illimani	1000kc	10KW
CP8	Radio America	1450kc	250w
CP9	Radio America	1450kc	1KW
CP10	Radio La Paz	1150kc	120w
CP14	Radio La Noche	1260kc	50w
CP32	Radio Bolivia	1150kc	1KW
CP35	Radio Bolivia	1150kc	1KW

CP1 and CP12 operated by Colegio San Calixto.

CP3 operated by Costas Hermanos, Casilla 596.

CP4, CP5, CP6, CP7, operated by the Direccion General de Propaganda.

CP8 and CP9 operated by Radio America, S. A.

CP10 operated by its owner Gonzalo Munoz Ascarrunz, Casilla 911.

CP14 operated by Sociedad Anonime Radio La Noche, Calle Obispo Cardenas.

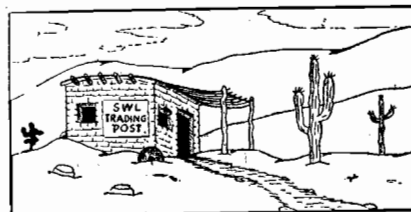
CP32 and CP35 operated by Cia. Internacional de Radio Boliviana, Casilla 669.

NOTE: The city of La Paz, besides being the capital of Bolivia, is also capital of the Province of La Paz.

STATIONS OF THE COLOMBIAN REPUBLIC

Station Name	Call	City	Frequency in Megacycles	Power in Kilowatts
A. Pinzón H.	HJ-FX	Manizales	600	1.000
Radio Cristal	HJ-CU	Bogotá	720	5.000
Voz Victor	HJ-CI	Bogotá	810	2.500
Voz Bogotá	HJ-CC	Bogotá	870	5.000
Hoyos-Restrepo	HJ-CS	Bogotá	920	50.000
Nueva Granada	HJ-CM	Bogotá	970	0.250
Voz-Suramerica	HJ-CO	Bogotá	1.160	1.000
Voz Colombia	HJ-CZ	Bogotá	1.040	2.500
Radio Santa Fe	HJ-CG	Bogotá	1.060	0.500
Emisora Atlántico	HJ-AH	B/quilla	1.080	0.500
Radio Cali	HJ-EE	Cali	1.090	0.250
Nueva Granada	HJ-CB	Bogotá	1.105	2.000
Radio B/manga	HJ-GE	B/manga	1.130	0.350
Voz Sta. Marta	HJ-BJ	Sta. Marta	1.140	0.500
Voz Valle	HJ-EB	Cali	1.150	0.500
Radio Nutibará	HJ-DT	Medellin	1.150	0.400
Voz Victor	HJ-AN	B/quilla	1.190	1.000
Emisora Nacional	HJ-CR	Bogotá	1.200	5.000
Ondas del Sinú	HJ-AM	Monteria	1.210	0.250
Ondas Bogotanas	HJ-CE	Bogotá	1.220	1.000
Lab. Fuentes	HJ-AE	Cartagena	1.240	0.525
Voz Antioquia	HJ-DK	Medellin	1.250	0.500
Hernando Bueno	HJ-EL	Cali	1.260	0.500
Voz Cúcuta	HJ-BC	Cúcuta	1.270	0.440
Radio Santander	HJ-GK	B/manga	1.280	0.280

Ecos Tequendama	HJ-CK	Bogotá	1.290	0.250
Voz Colombia	HJ-EC	Cali	1.300	0.500
Voz Patria	HJ-AK	B/quilla	1.310	0.500
Emisora Claridad	HJ-DQ	Medellin	1.320	1.800
Ecos de la Costa	HJ-AA	B/quilla	1.330	0.250
Voz Higuieronia	HJ-EF	Cali	1.340	0.500
Ecos Montana	HJ-DC	Medellin	1.350	0.250
Ondas del Otún	HJ-FF	Pereira	1.350	0.250
Radio Narino	HJ-HA	Pasto	1.350	0.500
David H. Martinez	HJ-AI	B/quilla	1.370	0.500
Radio Mundial	HJ-CJ	Bogotá	1.380	0.500
Voz Comercio	HJ-DR	Medellin	1.380	0.250
Radio Manizales	HJ-FD	Manizales	1.390	0.450
Radio Cartagena	HJ-AR	Cartagena	1.400	0.250
Hernando Bueno	HJ-EI	Buga	1.410	0.100
Eduardo Gardeazábal	HJ-EK	Tuluá	1.430	0.100
Ondas de Ibagué	HJ-FL	Ibagué	1.440	0.100
Voz Be la Icazar	HJ-EG	Popayán	1.450	0.500
Ondas de l Magdalena	HJ-BE	Ciénaga	1.460	0.100
Voz Pereira	HJ-FE	Pereira	1.470	0.250
Ecos de Occidente	HJ-DL	Medellin	1.480	0.500
Univ. Antioquia	HJ-DU	Medellin	1.490	0.250
Radio Palmira	HJ-EM	Palmira	1.510	0.100
Radio Córdoba	HJ-DM	Medellin	1.520	0.500
Onda Corta				
FF. Nacionales	HJ-EH	B/ventura	4.755	0.500
Pregonos del Quindío	HJ-FI	Armenia	1.540	0.500
Onda Corta				
Radio Manizales	HJ-FB	Manizales	4.765	0.500
Radio Santander	HJ-GB	B/umanga	4.775	0.750
Voz Victor	HJ-AB	B/quilla	4.785	0.600
Ecos Montana	HJ-DX	Medellin	4.795	0.750
Intendencia del Chocó	HJ-DG	Quibdó	4.805	0.150
Voz Cúcuta	HJ-BB	Cúcuta	4.815	0.750
Voz de l Valle	HJ-ED	Cali	4.825	0.720
Lab. Fuentes	HJ-AE	Cartagena	4.835	0.525
Nueva Granada	HJ-CD	Bogotá	4.845	0.720
Voz Bogotá	HJ-CF	Bogotá	4.855	0.750
Voz Amiga	HJ-FK	Pereira	4.865	2.500
Voz Armenia	HJ-FH	Armenia	4.875	0.500
Emisora Claridad	HJ-DP	Medellin	4.885	0.500
Voz Victor	HJ-CH	Bogotá	4.895	0.720
Emisora Atlántico	HJ-AG	B/quilla	4.905	1.000
Voz Pereira	HJ-FC	Pereira	4.915	0.500
Radio Cartagena	HJ-AP	Cartagena	4.925	0.600
Voz Colombia	HJ-CX	Bogotá	6.018	0.750
Voz Pereira	HJ-FA	Pereira	6.054.3	0.500
Voz Antioquia	HJ-DE	Medellin	6.145	5.000
Emisora Nacional	HJ-CT	Bogotá	9.630	2.500
Voz Suramerica	HJ-CW	Bogotá	4.935	1.000



Warren Dame, 5 Central St., Saxonville, Mass. (SWL Cards).

Elmer Neuman, 2224 Woodstock Ave., Swissvale, Pa. (SWL Cards).

John Kezer, 2805—16th Place, N. E., Washington, D. C. (SWL cards).

John Peter Gawel, 95 Jewett Parkway, Buffalo, N. Y. (SWL cards and photos).

Bill Krause, 106-15th St., Sharpsburg, Pa. (SWL Cards).

Vernon H. Shearer, Jr., 219 Whitehall St., S. W., Atlanta, Ga. (Correspondence concerning logging of Alaskan broadcast band stations).

Reg. A. Nunn, Box 80, Hamilton, New Zealand. (SWL cards).

R. Howard Berg, Jr., 621 Melbourne Ave., Melbourne, Fla., (SWL Cards).

James Arp., 421 Mulberry St., Williamsport, Pa. (SWL cards).

Charles S. Werdig, 1619 Irving St., N. E., Washington, D. C. (SWL cards).

David G. Thompson, 3600-22nd St., N. E., Washington, D. C. (SWL cards).

Arthur Woods, 401 Yankee St., Wellsburg, W. Va. (SWL cards).

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

Jesse B. Strawn, Whiting, Kans. (Exchange SWL cards and correspondence with foreign DXers).

Gunnar Sandberg, 34 Grevturegatan, 4 St., Stockholm, Sweden. (SWL cards).

Stan Sosnowski, 6615 Horatio St., Detroit, Mich. (SWL cards).

John W. Clark, 28-24 Utopia Parkway, Flushing, N. Y. (SWL cards).

Austin Wardman, 832 Linden Ave., East Pittsburgh, Pa. (SWL cards).
Philip L. Craig, Route D-1, Box 81, Waterville, Maine. (Correspond with owners of HQ-120-X receivers).

Leon Grossman, 118 Dorbeth Road, Rochester, N. Y. (SWL cards).

Stephen Paul Veres, 7 Orchard St., Garfield, N. J. (SWL cards).

Anyone who has been trying to log Montana might be interested to know that stations KGIR, KRBM and KPFA are on the air every Sunday morning until 4 A. M. or later with a special program. For a penny postcard with the one word Montana on it, listeners can receive a copper buffalo and a buffalo windshield sticker for their car. The first two stations named can be heard here any Sunday morning. (Harold Robie, Springfield, Mass.)

KGIR in Butte sends an original verification printed on a piece of copper which has been rolled as thin as a piece of paper. For a penny post card they send a copper buffalo and for a correct report and a 3 cent stamp they send a copper verie.

QUESTION:

How can I receive Ultra High Frequency stations on my radio?

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Send me your guaranteed UHF converter right away. I understand that it is complete, and is not a diagram. Enclosed is 50c. RUSH.

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City State

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Radexing With The Radexers

By Ray LaRocque

Within the past two months an avalanche of entries has been received for our Supremacy listings. The new entries have created a much closer race in most of the competitions and makes it even more necessary that we adhere to our first idea of listing only the top five reporters in each group. As promised we are repeating the first three groups and including the three which were unlisted last month.

SUPREME SUPREMACY: For the total number of stations verified—not heard:

Botzum (R42)	1130
Forestieri (R133)	1028
Horton (R1305)	981
Walker (R1643)	890
Tear (R924)	745

COUNTRIES VERIFIED SUPREMACY: For the highest total of countries verified:

Reichardt (R1633)	55
Botzum (42)	37
Lippincott (R168)	27
Forestieri (R133)	25
Burnham (R1632)	22

BEGINNER'S SUPREMACY: Total number of stations verified by DXers who have been DXing two years or less.

Mustoe (R881)	576
France (R701) 20 mo.	475
Richards (R101) 10 mo.	286
Cole (R998)	277
Lee (R1631) 3 mo.	127

U. S. SUPREMACY: For the highest total of states in which every operating station has been verified:

Botzum (R42)	40
Walker (R1634)	29
Lippincott (R1634)	7

OLD TIMERS SUPREMACY: For the oldest dated verification.

Tear (R924)	July 1930
Botzum (R42)	Dec. 1931
Caldwell (R1319)	Oct. 1933
Walker (R1634)	Aug. 1935
Lippincott (R168)	Sept. 1935

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

Ray LaRocque
4 Wachusett St.,
Worcester, Mass.

SUPREMACY FOR NORTH AMERICA: For the most states of the U. S., provinces of Canada, states of Meico, and other individual countries in North America—each country to be classed as a state.

Botzum (R42)	80
Daneker (R1122)	72
Walker (R1634)	71
Lippincott (R168)	71
Horton (R1305)	69
Wright (R23 Ill. 4)	66

There you have the top five Radexers in each group. Groups omitted this month are TP SUPREMACY, TA SUPREMACY, and SA SUPREMACY. These and a repetition of the first three this month will appear in the next issue of RADEX. Complete names and addresses of DXers are listed at the conclusion of this article.

Among the names appearing rather prominently in these Supremacy listings you'll find that of Carl Forestieri. We find it fitting to make mention of Carl at present, for, after about twelve years as an active DXer, Carl has been forced to cease active participation in the hobby due to ill health making it necessary for him to acquire more sleep after a hard day's work. As we have it on August 24, 1928, the date being Mrs. Forestieri's birthday, Carl bought her a Zenith 35PX. The serviceman came at 10 p.m. to install the set and it was 11:15 when he left. "We started listening to the set and before we knew it, the midnight hour had arrived", says Carl and in those days most sta-

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tions went off at midnight. "An hour later the Chicago stations signed and we spent $\frac{3}{4}$ of an hour identifying WKY in Oklahoma City which we thought a good catch," continues Carl.

On that night Carl became a DXer and his wife a radio widow, as he puts it. It wasn't till November, 1932 that the first great thrill came to Carl when he logged Radio Trieste on 1211 kcs. "At first it seemed impossible to believe my own ears," claims Carl, "but that announcer was speaking my own language, my native Italian. Yes Radio Trieste was coming in on my loudspeaker." Since that first catch from Europe Carl has gone on to compile a log of verifications that might easily be envied by every DXer in the world. He has among others, CT1GL, Algiers, Radio Maroc, Belfast, 4 Italian, 5 German, and 10 French stations. Also 4 Australian, 1 New Zealand, and countless others among which Carl prizes a veri from a 20 watt Mexican—XEE.

Today, Carl Forestieri has far from forgotten his hobby. He reads RADEX, belongs to many clubs, continues his correspondence with friends, and likes to read what they are doing. Someday, Carl hopes to have the leisure time to devote some attention to DXing again and so do we for the DX hobby could well use many CARL FORESTIERIS.

THIS 'N' DATA

Allen G. Verrill of Brockton, Mass. is the proud winner of a phonograph attachment for his radio—the prize awarded by KFWB to the most distant reporter on one of their programs. . . . For James O. Weaver of Elkhart, Indiana we'd like to mention that the Colombian on 1190 is HJAN "La Voz de La Victor" in Barranquilla Colombia. Power is 1000 watts. . . . Anyone having the address of HC2ROZ on 900 kcs. should communicate same to this column for Radexer Stephenson of Oklahoma City. . . . Many stations seem to use their call letters to signify the impor-



The SWL card of Reg. Nunn of Hamilton, New Zealand. It is a three color card, blue, green and red: He will exchange cards if you send yours to P. O. Box 80, Hamilton.

tance of their communities as world markets. Witness: WLPN—World's Largest Peanut Market, WFTC—World's Foremost Tobacco Center, WGPC—World's Greatest Peanut Center, WBTM—World's Best Tobacco Market, WGRC—World's Greatest Radio Center, WFBM—World's Foremost Beef Market, WGLM—World's Greatest Cotton Market, WMFG—World's Market For Grain. For the preceding we say Thanks, James O. Weaver.

RADEX readers who use the index a lot will find the following suggestion of Edward Laudansky, Dorchester, Mass. useful. He suggests they pry up the staple and put a gummed reinforcement under each corner. The pages will not come loose again. . . . An azimuthal map of the world with Washington, D. C. as the center can be purchased from the hydrographic office of the U. S. Navy for 30c. Ask for #5199. For this bit of news our thanks to Elwood Cole of Silver Springs, Md. . . . "The Cuban on 640 kcs. has been heard many times but when they are coming in, so are CMCD and WSM on each side of them. I have never been able to get the correct call. Anyone know it?" This from James O. Weaver, 2317 Pleasant Plain Ave., Elkhart, Ind. . . . Radexer Thomas M. Moss, Hapeville, Georgia wants to suggest that the

RADEX Club have printed membership stationery, seals, and buttons. . .

For the benefit of Hubert L. Martz, 22 N. Potomac St., Hagerstown, Md., F. J. Soto of Chicago states that his station on 1030 kcs. is XEB in Mexico City. The 900 kcs. station referred to may have been XENT which is on 910 kcs. . . . On Feb. 23 both WRC and WOL's program lines were destroyed due to a fire which burned the telephone cable cutting the studio from the transmitter. WOL left the air for about half an hour then continued with recordings. About 11:45 p.m. WRC made contact with the studio by short wave via WNBW, 2580 kcs., but the quality was not good enough for rebroadcast—it was discontinued and the station continued with recordings until sign off. . . . Can anyone tell Paul George of 3 South View St., Aurora, Ill. what Spanish speaking station he is hearing on 985 kcs. between WBZ and KDKA.

PITTSBURGH, PENNSYLVANIA—Thomas Black: "Reports are out to Stavenger, Frankfurt, Paris PTT, Poste Parisien, Nice, YVIRD, HJ1ABN. My best varies are JOCK, JOHK, Fecamp, Belfast, 4YA, VAS, YVIRM and ZNS. A German station on 760 kcs. with physical exercises has been heard around 2:15 a.m."

CHICAGO, ILLINOIS—Mrs. Bee Catalano: "Can anyone tell me what kind of aerial to use to hear the stations in Washington and Oregon. I have never been able to hear any of them—even on test programs."

WILDER, TENNESSEE—William Prater: "What all night Spanish speaking station is now operating on 1150 kcs. I've listened to them several mornings between 3:30-4 a.m. I have not heard English spoken yet. Another station on either 1380-90 kcs. an all-nighter also—an American, but I cannot catch the call."

EKHART, INDIANA—James O. Weaver, 231 Pleasant Plain Ave.: "Can anyone give me any tips on

when to tune VONF, ZNS, and any Argentine station. I have tried quite often for VONF at their sign off time, but I don't seem to be able to hear them."

COLUMBIA, TENNESSEE—W. A. Dobbuis, Route 1: "I tried daytime DXing a few days ago and picked up 25 stations with my old 3 tuber from 11 a.m. to 1 p.m. The best catch was WOAI, 800 miles away. There were plenty of others but I was interested in signals of good quality only."

ROCHESTER, PENNSYLVANIA—A. G. Schleiter 830 Case Street: "I have logged up to January 1, 1940 a total of 945 stations, just 52 more than in 1938 when I logged 893 stations. I started a new log on January 1, and in exactly one month I have heard 744 stations, an average of about 22 daily—3 every hour on an 8 hour average."

DETROIT, MICHIGAN—Henry Dahl, 101 W. Philadelphia: "Since last time I wrote you, I have increased log by 180 stations, largely with the aid of an eight tube Erla of 1932 vintage. XEAC has been coming in R9 plus lately."

BRONX, NEW YORK CITY—Joseph Schwartz, 1355 Morris Ave., Apt. 4F: "The first thing on the menu is an aside to Radexer Starr. The only small receiver that I know that tunes the long waves is the A C Lafayette model S-45. This is also equipped to tune the broadcast band and shortwaves."

PHILADELPHIA, PENNSYLVANIA—Frank S. Macolly, 418 Monastery Avenue "Being a reader of RADEX for the past ten years, I thought I'd write a few lines. I want to say that it is the best ALL WAVE Radio Log on the market. I like the articles by B. Francis Dashiell and am interested in seeing more news about the "Not-So-Short Waves." The Month's changes in station data is the one and only of any account in any Radio magazine.

Of the 1138 stations listed in the

broadcast band, I have 751—of the 817 American stations listed, I have 645—of the 321 foreign, I have 106—Of the 489 American "W" calls, I have 435—Of the 328 American "K" calls, I have 200. I have heard all frequencies but 540 kcs., all the states in the U. S., Cuba, and Mexico, Canada, Porto Rico, Hawaii, France, Argentina, Colombia, El Salvador, Guatemala, Newfoundland, and England. Over 5400 amateurs, over 300 Police calls and over 300 shortwave stations are in my log. All but four states have been heard on the police band.

My collection of "Ekko" stamps mounts to nearly 800 stamps, my verification letters number over 1000 including some 25 foreign stations on shortwave bands. . . . Back in the old days I entered such stations which are perhaps unheard of today by many DXers: KOP, WCX, WEAM, WEBH, WGI, WJY, WNJ, WOAV, WRK, WSY, WWA, PWX, CJCM, CYL, AT-9, 6KW, 9BY, 9BM, 9CY, 9CN, 5NO, and 2EH—the last two being in England and were heard during the International tests in 1924. . . . Others heard as early as 1923 that old timers will recall are WOO, WGM, WLK, WBAY, WIAD, WDT, WQAO, WMH, and WQJ. Anyone wanting to know more about these stations from me can obtain information by writing and enclosing self-addressed stamped envelope. I have heard as much as 100 station in one night in 1929 and 1930—when it was a stunt to do this."

PORT CREDIT, ONTARIO—Selwyn Adamson, Indian Valley Trail: "I recently became re-acquired with RADEX. I might be regarded as one of the old antiquated clan of DXers, having set up many a night way back around 1928-32. Those were the days when shortwave was something that very few ever heard of—and when there were many excellent catches on the broadcast band. I think that receivers of that day were every bit the equal of those of today, as far as getting distance is

concerned. The thrill of my life came when with a 90 ft. aerial on my 8-tube Serenader I dragge din a 15 watter in Tampico, Mexico. Incidentally this old set still performs well, but a new 6-tube Knight receiver gets most of my attention now as I DX on shortwaves. Please convey my greetings to all the "old timers" who are still getting a kick out of DX."

MINGO JUNCTION, OHIO,—Peter J. Danko, 308 Lincoln Avenue: "I have been getting a station on 650 kcs. I got this station on every morning for a week. It might be only 648 or 649 kcs., but it seems to be right on the same spot that I find WSM. At 4 a.m. I heard the clock strike 9 or 10 and then the announcer said, 'This Is London Calling!' Can anyone help me—there are no British stations listed on this channel?"

SOUTH BEND, INDIANA—Harold L. Ball, 3321 N. Side Blvd.: "For about ten years I have been a confirmed DXer, but I didn't start collecting verifications until recently. RADEX has been much help to be in DXing. Following stations did not answer my verification requests in 1939: WNEL, KWEW, KPLC, KUTA, WJIM, and WROL."

COVERING THE CONTINENTS Domestic Dialings

Komments from the "K" district: KAWM in a veri states that in the three years that they have been on the air, mine is the first report they have rec'd. from Tenn. (William Prater, Wilder, Tenn.)

KTSM in Emporia Kansas are an MBS outlet. Their call signifies Kenneth Trimble and Sewall Warren. (Gerald Harris, Kans City, Kans. R729 Kans 5)

KGIR in Butte, Montana has for their veri a stamped piece of copper about three inches wide and five inches long. They also send along a copper buffalo. (Sidney Tellis, Philadelphia, Penna.)

. . . . KGHI's card could easily be mistaken for a ham QSL. It is

printed in yellow, green, blue gray and black and is certainly worth a report. (Elwood B. Cole, Silver Springs, Md.)

KOMA on 1480 kcs. comes on at 7 A.M. and off at 1 A.M. No test programs, but veries correct reports. KTOK on 1380 kcs. on from 7:30 A.M. to 1 A.M. Has a test program on the 2nd Tuesday of each month from 3:45 to 4 A.M. DXers should try for these tests. . . KOCY on 1310 kcs. also sends veries for accurate reports. They have test on 1st, 3rd, and 4th Tuesdays of each month from 6:38 to 6:50 A.M. (Ernest R. Forrest, Oklahoma City, Okla.)

KPOF was heard on a test between 2:45 and 3:15 A.M. on March 8th. Apparently they test each second Friday at this time. . . KID conducts a DX broadcast the second Sunday of (Frank Susoreny E. Chicago, Ind. R1-the month form 3:15 to 3:30 A.M. 421)

KWTN on 1210 kcs. Watertown, S. Dak. is deleted, 2nd a new station KWAT in that city is under construction. Will begin operations about Feb. 1st.

CMQ Havana has shifted to 690 kcs. on top of XET Monterey, XET broadcasts American "Hill Billy" music from 6 to 8 A.M. and from 7 to 11 P.M. Since there is a great battle between XET and CMQ with the Cuban sometimes having a little the edge, and since XET is using San Antonio for their commercial mailing address, it is probably that we may soon have a frequency change. (Pat Webb, San Antonio, Teas)

KEZ in Merida, Yucatan sends a very attractive blue and yellow card. Picture is in yellow on a white background with call letters and verification in blue, KEZ on 630 kcs. was heard on their program dedicated to the NRC. (Hal Robie, Springfield, Mass. and James O. Weaver, Elkhart, Ind.)

XEAG sends a card letter and souvenir and commented on my full report. They seemed very glad to get

reports on their DX broadcasts. (Arthur Parfitt, Cleveland, Ohio) several occasions in the early mornings from 3 to 6:30 A.M. (James O. Weaver, Elkhart, Ind.)

XET on 690 kcs. has been heard on Weaver, Elkhart, Ind.)

Does XENT verify? Report was sent them and all that was received is a booklet on cancer cure. (C. R. Bendes, Pittsburgh, Pa.)

Panama: HOK on 640 kcs. was heard January 28th. They came in here R6. . . Also heard HP5K the same morning relaying the same program, and James O. Weaver, Elkhart, Ind. (Paul George, R542 Aurora, Ind.)

Porto Rico: A new station will soon be operating in Puerto Rico, WPAB are the call letters of the stations to be operated in Ponce, on 1340 kcs. with 1000 watts. (Lee Grossman, Rochester, N. Y.)

Tuning the TA's

It has been mentioned in the paper that the war has made it impossible that the convention of Montreux be placed into effect internationally, as was scheduled on March 4. England, France and Germany have already announced that under the prevailing change of wavelength. Smaller countries look upon any change with disconditions they will not effectuate the favor as present conditions make it difficult to obtain necessary materials with which to make changes. So, the Montreux plan, though it will be kept for further use, will undoubtedly not be effectuated this season. (Anton Jansen, Boskoop, Netherlands.)

Albania: Radio Experimental Tirana II (234 mtrs) uses but 10 watts, but will increase to 50 kw. when new transmitter is complete. . . March issue of "Radio Revista Tirana mentions Tirana II on 1289.5 kcs. with 10 watts and on 1384 kcs. with 250 watts power. No schedule mentioned. (Anton Jansen, Boskoop, Netherlands.)

Bohemian and Maravian Protectorate: Former station "Prague II" at Melnik on 1113 kcs. is now called Reichssender Bohmen (State Trans-

mitter—Bohemia) using only German during regular programs. . . the former Prague on 638 kcs. carries the transmissions in Czech. Station announcements also only in Czech and transmissions close with Czech anthem. Same interval signal as formerly—4 harp strings. . . Tropau on 1204 kcs. which apparently is the former Czechoslovak station "Moravska Ostrava" is now an auxiliary transmitter of the Reichssender Breslau along with Gorlitz and Gleiwitz. . . Kosice on 1158 kcs. is now a station of the Hungarian broadcasting system since Hungary has annexed this Czechoslovak city. The station is now called "Kassa." No data is available on the status of the former stations Brno, Banska Bystrica, etc, but as soon as I have information I'll send it to you, Bratislava is now the national Slovak station. (Anton Jansen, Boskoop, Netherlands.)

Finland: Stations are Lahti on 1807.2 mtrs., Helsinki on 400.5 mtrs., Oulu on 696 mtrs. Vassa on 211.3 meters and Turku on 335.2 meters. (Anton Jansen, Boskoop, Netherlands.)

France: A French station was heard on 695 kcs., but due to terrific QRM, it was impossible to make positive identification, Signal peaked about R5, Piano music was heard. (Allen G. Verrill, Brockton, Mass. R968.)

I don't hear "Radio International" any longer. Nor do I hear "Radio Normandie". So the station appears to have ceased to transmit. I do not know the reason. (Anton Jansen, Boskoop, Netherlands.)

Great Britain: British Broadcasting corporation transmitters heard on 775 kcs. and 670 kcs. from 2:35 P. M. EST. to 3:15 A. M., both have good signals. Peaked R9 plus on 29th and 30th. News broadcast presented at 3 A. M. (Allen G. Verrill, Brockton, Mass. R968.)

The longwave station at Droitwich on 200 kcs. is no longer operating (Anton Jansen, Boskoop, Netherlands.)

Germany: German station on 765 kcs. heard with band music and German announcements, a very strong signal R7 to 9 plus. Heard from 2:20 A. M. to 2:35 A. M. EST. (Allen G. Verrill, Brockton, Mass. R968.)

"Reichssender Saarbrücken" on 1249 kcs. apparently has been put out of service. As you will know, Saarbrücken has been evacuated. On the other hand, the evacuated French city of Strassbourg has kept their station "Radio Strassbourg" on 859 kcs. in regular service. (Anton Jansen, Boskoop, Netherlands.)

Luxembourg: As you will know, not long after the beginning of the war, the long wave station Luxembourg on 232 kcs. closed down. All the staff has been put out of service. (Anton Jansen, Boskoop, Netherlands.)

Netherlands: Present stations include the longwave Hilversum I with 120 kw. Hilversum II on 995 kcs. with 60 kw. and Jaarsveld on 724 kcs. These two new transmitters are under construction at Lopik and will not be opened on new frequencies, but will replace Hilversum II and Jaarsveld on their respective frequencies. Power on both these new transmitters will be 250 kw. (Anton Jansen, Boskoop, Netherlands.)

Poland: In the part of Poland occupied by Germany the following changes in broadcasting have taken place. The former Torun transmits on 906 kcs. and is now called Danzig I. Danzig II operates on 1303 kcs. . . The well known longwave Warsaw transmitter was destroyed during the cannonade of Warsaw last September. There is a German station on the same frequency announcing as "Hauptsender Lodz I" (Head Transmitter Lodz I) which is supposed to be the old transmitter used on 244 kcs. by Deutschlandsender as the latter station now has a new one. . . This longwave station is relayed by "Warchau" (German for Warsaw) on 1384 kcs. (formerly Warsaw II) and by "Krakau" (German for Cra-

cow) on 1022 kcs. and by Lodz II on 1339 kcs. The Katowice station which operated on 758 kcs. was also destroyed and will be rebuilt to operate on 249.2 mtrs. under the German name for the city — Kattowitz. Information is lacking about the Lwow transmitter 759 kcs. as that city is in Russian territory now and same is true of Wilno 536 kcs. now in Lithuania in the city called Vilnius. (Anton Jansen, Boskoop, Netherlands.)

Spain: A 20 kw. transmitter has been erected at La Corun (having been transported from Burgos) and will operate on 968 kcs. (Anton Jansen, Boskoop, Netherlands.)

Tripoli: Radio "Tripoli" veri card received by (Clarence Burnham, Gloucester, Mass.)

TP Topics

TP's are beginning to show some strength and 4 QS is one of the latest heard. 1ZB also heard recently. 1 YA was heard 3:15 this a. m. (Joseph T. Lippincott, East Vassalboro, Maine.)

Australia: 4QS the new station on 760 kcs. is an easy catch running an R8 signal on peaks and never below R5. (Isaac T. Davis Elkhart Texas.)

The following Australian along with a few New Zealand stations are being heard 3:45 a. m. to daylight, reaching a peak around 5:30 a. m. 1YA, 3AR, 4QN, 5CK, 2CO, 2NR, 4QS, 4QG, 3GI, 2CV, 2GB, 2UE, 2GZ, 2KY, 4BC, 2NC, 3TR, 4BH, 4YZ, 3YA, 2YC, 4ZB. (Harold B. Schuber, R1323, Britt, Iowa.)

Hawaii: KGMB verified on December frequency check with government post card. It pictures the map of Hawaii in green and is printed in black. (Frank Susoreny, E. Chicago, Ind.)

KHBC in Hilo is now operating on new frequency of 1300 kcs. (Merlin Steen, Decorah, Iowa.)

New Zealand: N. Z. National stations stay on the air much later than they did before the war. They now sign off at midnight N. Z. Standard Time, which is, as you know, 7:30 a. m. E. S. T. . . . I heard 2YA signing off on 650 kcs. last Sunday. Has this station moved to that frequency? I thought I was listening to 1YA until he announced 2YA signing off. (Isaac T. Davis, Elkhart, Texas.)

Japan: JOAK-2 on 970 kcs. came in almost as loud as WENR does and a station in parallel with them on about 760 kcs. were heard. Another station speaking an oriental language was heard on 810 kcs. (Pat Webb, San Antonio, Texas.)

Oriental music was heard very weakly on 590, 660, and 790 kcs. after 5 a. m., so I believe I had JOAK-1, XGZ, and JOGK. (James O. Weaver, Elkhart, Ind.)

Supremacy Contestants

R23, Ill. 4—Richard Wright, Swarthmore, Pa.

R42—Robert Botzum, Reading, Pa.

R101—Weston Richards, Zion, Ill.

R133—Carl Forestieri, Bronx, New York City

R168—Joseph T. Lippincott, E. Vassalboro, Maine

R701—William France, Bridgeport, Ohio

R881—Clarence Lee Mustoe, Brady, Mont.

R924—Harold Tear Roanoke, Va.

R998—Edward B. Cole, Jr., Silver Springs, Md.

R1122—Richard Daneker, Lansdale, Penna.

R1319—Alton L. Caldwell, Brockton, Mass.

R1631—Thurston L. Lee, Fort Benning, Ga.

R1632—Clarence, Burnham, Gloucester, Mass.

R1643—Jim Walker, Cass, W. Va.

HIGH FREQUENCY GLOBE TROTTER

By Ray La Rocque

Readers living in the Eastern and Central Standard Time Zones may send their reports direct to Ray LaRocque, 4 Wachusett Street, Worcester, Mass.

G. R. Jewell, Jr.	100%
John A. Shanks	57%
M. C. M. Horlick	55%
Anton Jansen	49%
John D. Long	46%

Absent from our meter for one issue, while he transported his listening post all the way from Alabama to California, G. R. Jewell is back again with a bang. He walked away with top honors this month, while practically every other reporter on the list battled fiercely for second place. Honorable mention this time is being given to M. F. Williams, Pat Web, C. R. Bendes, and A. L. Kemp-ton.

Your chief Globe Trotter begs the forgiveness of every RADEXER, for we have not been able to reply to all correspondence, as has been our past policy. So heavy has been the mail, and the time to answer letters so short, that we've had to cut down and reply only to those letters which necessitated immediate reply. Others who have replies coming to them will receive them in due time. In the future we're going to have to make most of our acknowledgments and replies through the medium of this department. Of course, the enclosure of self addressed and stamped envelope will bring a personal reply. So we beg you to continue to send your grand reports to us and we'll do our best to respond and acknowledge every one of them in RADEX.

ASK US ANOTHER

"How does one go about getting a veri from WMI, Lorain, Ohio", is the query of Henry Bennett, 644 Atlantic Ave., Collingswood, N. J. Radexer Bennett further asks, "Does anyone know if W3XQH on 2420 kcs. is an experimental station of the Indian-

apolis Police Dept?" . . . A station in China has been heard about 9 p.m. on 9630 kcs. by Ernest R. Forrest, 224 E. Park Place, Oklahoma City, Okla. Ca anyone give further information on this station.

Alton L. Caldwell, R1319, Brett St., Brockton, Mass. would like some information on a station playing Strauss waltzes without announcements on about 7090 kcs. The station was heard from 12:07-12:33 a.m. At 12:30 a man spoke briefly, but was lost in QRM as the station left the air. . . . Answering RADEXER Budden of Montreal, Joseph Schwartz, 1355 Morris Ave., Bronx, N. Y. relates "Deutsche Freiheit Sender is the anti Nazi portable mobile station working in former Austria." Now for a query of his own, friend Schwartz asks to know the location of Y2J and VYQ, both Canadian Police stations. . . . "I would like information on two stations", requests Kyle C. Bonifide, Asbury Park, N. J. A Dominican on 11870 kcs. heard at 8:30 p.m. and a station speaking both English and French broadcasting a play concerning Marie Antionette on 9500 kcs. late Tuesday evening.

A Colombian station on 4980 kcs. announcing as P. O. Box 77 is puzzling



The attractive QSL card of CT1QA, heard often in the United States on 20 meter 'phone, although his power is only 32 watts.

John A. Shanks, Russellville, Tenn. Has anyone the answer? . . . "Who is the station I heard from 1-2:30 a.m. on 9505 kcs. on March 5?" That question is from L. F. Dolbow, R1441, Kansas City, Kans. "The signal was very strong," continues Radexer Dolbow, "but badly QRM'd by GSB. A gong was struck, and woman announcer used. The language was strange."

Alfred Mozzi, 124 Charles St., Menden, Conn. relates, "Yesterday I heard a station with the call letters WWOA on 42-43 megacycles. Will you please tell me the location and what kind of station this is?" . . . H. L. Tomkinson, 49 Main St., Mt. Holly, N. J. would like help in identifying a station on about 10900 kcs, which has been heard as early as 11:05 a.m. and signs off at 3 p.m. with chimes and clock striking eight. . . . "I would appreciate it if someone would tell me whether WGEO are using their new amplifier, and if so how much power they are running at the present time? Has their tips program been discontinued, or merely changed to a new time?" The preceding is from Pat Webb, 1525 Hicks Ave., San Antonio, Texas. . . . Asks Clarence Burnham, 6 Avon Court, Gloucester, Mass, "WOAJ and WOAK on 2726 kcs. have been heard R9—who are they?" . . . Mr. Edward H. Draper, R.F.D. #2, West Burke, Vt., had his name erroneously listed as T. P. Draper in RADEX a few months ago and has been getting mail addressed in that fashion. He'd like his correspondents to know his correct name, so here it is! . . . A mystery station has been heard on 9700 kcs. just a hair higher than TGWA. It was heard by Charles L. Carroll, 298 East Scott Ave., Rahway, N. J. at 9:15 until 11:03 p.m. Sign off number was the French National Anthem. All announcements

were believed to be in Spanish and "Beer Barrel Polka," was identified as one of the numbers. . . . Helen L. Lind, 1059 Maplecliffe Drive, Lakekcs. "Somebody Stole My Gal" was wood, Ohio is hearing a CIX on 5830 the first English song I've heard from the station. The station signed off a few minutes before midnight with the song "Goodnight, Goodnight." . . . A BBC station on or very near 1000 kcs. has been heard broadcasting the same program as the 17810 kcs. station. Any information about this station will be appreciated by P. P. Malley, 371 Spoke St., Pittsburgh Penna.

QUOTE AND UNQUOTE

John H. Sanders, 612 2nd Ave., Williamsport, Penna: "I have received every continent and a lot of stations in South America, Europe, and Australia. I also have a verification from back in 1929, along with G5SW and VK2ME."

Eric Butcher, Beira, Portuguese E. Africa: "Stations here gave me a very fine reception at Lourenço Marques, and the English announcer, Miss Hedwiges Sequeira is very charming. This station deserves a little publicity. The best station received daily except the high power Europeans is TAP, Ankara, Turkey. What with tropical static and electrical interference reception tonight is almost impossible from 6:30-11:00 p. m. E. S.T."

Murray Vaughan, Saint Martins, New Brunswick: "I am the only radio fan in this district. I am thirty miles East of St. John on the Bay of Fundy. The receiver used is a Freed Eisemann with six tubes."

Lester E. Balcome, R1312, Malden, Mass.: "Just now I am engaged in lending a hand with the communications section of the newly formed Civilian Air Reserve at the local air-

port. We plan to operate on 160, 75, and 20 meter phone. Also it may be possible to install 2½ meter transceivers in the plane. It's going to take some little time and plenty of 'elbow grease', that's certain."

Pat Webb, San Antonio, Texas: "I believe the greatest thrill I have had in my years of DXing was on the Sunday that the German Battleship, Graf Spee was scuttled at Montevideo. All day long WOD, New York had kept up a circuit with LSY, Buenos Aires—who had a land line to the dockside with an announcer who had been waiting there all night. Every few minutes he would give reports of activity to the NBC in New York. Most of it was very interesting, but was not put over the networks. Then, a few minutes before six in the evening, there was an excited murmur of voices in the background, a loud noise which might have been the reverberation of a distant explosion, and the announcer shouted excitedly to be put on the network—that the ship had been scuttled! Two or three minutes later the whole country heard the news, but I was lucky enough to be one of the first."

Myron Ksenich, Lorain, Ohio: "I've verified 243 stations and on the short-waves I've verified 44 stations from 25 different countries. My prize catches are 'Radio Saigon' and JDY—both verified."

Kyle C. Bonifield, 519 Asbury Ave., Asbury Park, N. J.: "I'm interested in a simple diagram of a one or two tube long wave receiver. Perhaps you could print such a diagram in RADEX. I also think it a good idea if a list of all foreign C.W. and phone stations could be printed."

M. E. Williams, 119 S. 8th Street, Newark, New Jersey: "Realizing that many SWL's and transmitters do not possess an up-to-date Call Book, and frequently they desire to send a report to a station whose address is unknown, I have formed a free service for all who wish to take advantage of it. The American SWL Bureau will

forward your SWL cards to ham stations requesting him to mail you a card in return. All that is asked is that you do not mail your cards in packets—post each one of them separately so that the receiver will see the postmark. Simply address each card to the station desired in care of the American SWL Bureau. The following countries only are covered: CE, CM, CO, CP, CX, EA, HC, HH, HI, HK, Hp, HR, K4, KB4, K5, K6, KA, KB6, KC6, KD6, KE6, KF6, KG6, K7, LU, NY, OA, PY, TG, Ti, VE, VO, W, XE, YN, YS, Yv and ZP."

Artie Fleming, R236, Parkville, Missouri: "Now that the weather has warmed up, I hear very strong signals regularly from Europe on 17, 19, 25, and 31 meters 24 hours a day. I have heard a lot of ship-to-shore telephone on 2500-2800 kcs., but I haven't found that part of the band listed. What issue of RADEX would include this band?" (Nov., 1939).

ULTRA HIGH

Perhaps the most talked-about use of the ultra high bands at the moment is "FM" as it is known or Frequency Modulated broadcasting. It has been predicted that as many as 100 or even within the period of a year. That the 200 such stations would be in use new system invented and developed by Professor Armstrong of Columbia University is a definite and distinct step forward is beyond a doubt to us and to anyone else who has witnessed a demonstration of "FM" broadcasting. Just how much time will be consumed in switching the public from the present system to the new method of reception (It will mean an entirely new receiver as present receivers cannot receive "FM" emissions) is a major question. Advantages of the new system are numerous, disadvantages, few.

Among the advantages, are a signal free of background noises, atmospheric static, and all made interference as well as free of inter-station QRM, as a receiver will pick up only the

strongest signal on any given channel. Add to this a range of tone which extends far above and below limitations of the human ear, enabling the music lover to hear symphonies and operas just as if he were present in the concert hall and you have the greatest step forward in radio in many years! Yes sir, DXers, Television and other developments will have to take a back seat for "FM" broadcasting is the fertile field for pioneer DX activities right now. We'd like to hear reader re-action to this new method of broadcasting and would also like to have reports from DXers who have or intend to do any listening on these new types of receivers, which are available now as single units or as combinations to receive the present type of signals as well as "FM" signals.

W5XAU on 26125 kcs. in Oklahoma City relays WKY from 7 a.m. to 11 p.m. daily Reports are requested and veri cards are issued. Reported (Mass.) as the best signal on the band. (Forrest—Okla., Horlick—Ohio, and Caldwell—Mass.)

W5XD on 25300 kcs. in Dallas is heard from 11 a.m. to 2:30 p.m. Also has been reported using facsimile on broadcasts. (Horlick-Ohio, and Caldwell-Mass.)

W8XNW on 15300 kcs. in Cincinnati, O., is heard on Wednesdays from 1-4 p.m. (Horlick-Ohio.)

W9XH on 26050 kcs. at South Bend has been heard very well relaying the programs of WSBT. (Caldwell-Mass.)

W9XLA on 25400 kcs. in Denver is heard very well relaying the programs of station KLZ. Schedule is daily from 11 a.m. to 3:30 p.m. and Saturday from 1-7 p.m. (Caldwell-Mass, Horlick-Ohio, and Hill-D. C.)

W9XOK on 25300 kcs. in St. Louis, Mo. relays KXOK and is heard on Mondays and Wednesdays from 12-1 p.m. (Horlick-Ohio.)

WAVA on 30700 kcs. in Alexandria has been heard operating with at least

two mobile units. (Hill-D.C.)

A New York State Police station is heard here Wednesdays and Fridays on 31500 kcs. from 2-2:30 p.m. (Horlick-Ohio.)

NOT SO SHORT WAVES

We acknowledge a communication from F. R. Rogers, American Legion, Ira Lou Spring Post #149, Jamestown, New York; parts of which are included in the following: WANC is our portable station and is the only special emergency stations operating on the special emergency frequencies, (3190 kcs. for C.W. and 2726 kcs. for phone) which is owned by a disaster relief organization. During the Ohio River flood in 1936-37 we operated in North Vernon, Ind. where WANC worked one week for HQ 76th, Brigade, Ind., National Guard. We sent ten men, truck, trailer, one car, radio station with gas engine and generator, telephone switchboard, field telephones, 300 ft. telephone wire, first aid supplies, two weeks rations for our men, a complete mess outfit, gasoline stove, cots and bedding, etc. . . The FCC has given us special authority to work amateur stations in order to be ready for emergency work in time of disaster. We are on the air for test schedules each Wednesday night from 8-10 p.m. Equipment is designed to operate in our trailer, but except in emergency work it operates from the Legion rooms. We are glad to arrange test schedules with any amateur station. All reception reports will be confirmed if two one-cent stamps are enclosed."

WCYE in Harrisburg, heard in contact with WDGO . . . WHCU is off the air at 9:50 p.m. (Hathaway, Ill.)

WMCM is not the boat Uruguay as stated by Szabo, R1302, in January issue of RADEX. It is the Police Dept. of Montgomery County, Pa., at Morristown. It is on 2366 kcs. with 500 watts. (Bennett—N.J.)

Coast Guard has absorbed the Light House stations so that the calls are now "N's", and the Great Lakes Light House and Guard stations will be on

3404 kcs., and all others on 3410 kcs. The New York district stations will call on 2670 kcs., and answer on 3410 kcs. The three-letter calls of the United and TWA are changed to four-letter calls, beginning with KUAA to KUAY, and I suppose the other aero three-letter calls will also be changed.

HHYB has been identified as a coastal harbor station in Port-Au-Prince, Haiti on 2738 kcs. . . KNLO was listed wrong in my past report—should have been KNJR of Death Valley, Calif. on 3415 kcs. . . Does anyone know what police station on 1690 kcs. is heard giving reports in Spanish evenings near midnight?

VE9CO operating aboard Canadian ships and testing transmitters to be used on the Great Lakes is on 2118 and 2738 kcs. VE9CO contacts W9XTD at Lake Bluff, Ill. on 2514 kcs. (All of preceding from Roman-Ill.)

SHORTWAVES IN REVIEW

Albania

ZAA on 7840 kcs. at Tirana uses a power of 3 kw. Actual schedule is from 6:20 a.m. to 8:30 a.m. on 7840 kcs., and from 7:20 a.m. to 5 p.m. on 6080 kcs. (Jansen—Netherlands)

Angola

CR6BE on 10900 kcs. at Benguela, has been heard here at 3:20 p.m. as a local station. (Butcher—Beira, Portuguese Africa)

Argentina

LRA on 9710 kcs. is heard when QRM is low. Good dance music is heard.

LRU on 15290 kcs. is heard with strong signals from about 8:30-10 a.m. LRX on 9660 kcs. is a good nightly catch for all DXers. They are in from 6-11 p.m. featuring American and Argentine music. (Jewell-Calif.)

Australia

VLR on 9580 kcs. at Melbourne is still heard in the early mornings with R6- signals. News is featured. (Jewell-Calif.)

VLQ-5 on 9680 kcs. at Sydney, operates from 6:30-9 a.m. Reports requested sent to Australia Broadcast Commission, Shortwave station VLQ-

5, Sydney. (Long-Ga., Ksenich-Ohio, Henderson - Pa., Bonifield - N. J., and Shanks-Tenn.)

VLW on 9650 kcs. at Perth, W. Australia comes in with a strong signal daily. (Ksenich-Ohio)

Bahama Islands

ZNS on 6090 kcs. is heard fine from 7:30 p.m. when they relay B.B.C. They announce "This is Nassau calling", just before 8 p.m. (Kempton-Mass.)

Brazil

PSEA (or so it sounded) on 15220 kcs. (approximately) heard with an R9 signal speaking only Spanish. Call letters were announced after each musical selection. They were heard from 11:08-11:58 a.m. (Hankins-Pa.)

Belgium

ORK on 10300 kcs. at Russelede is heard with fair signals from 1:30-3 p.m. ORK has been heard irregularly here of late. It may be due to the situation in Europe, but this station has not been heard nearly as consistent as in the past. (Jewell-Calif.)

Bulgaria

Sofia on 9505 kcs. is heard on the following schedule—from 3:30-5 p.m. They also operate on 6100 kcs. (Shanks-Tenn.)

Canary Islands

"La Voz de Gran Canaria" of Las Palmas is heard with good signals daily. They are low in the 40 meter band until 2 p.m. with their "Emission de la Tarde". They do not announce call letters or frequency. (Jansen-Netherlands)

Chile

CB-1180 kcs. on 11945 kcs., having recently shifted frequency, is about the best heard station from that country. (Williams-N.J.)

China

XMHA at Shanghai was heard with strong signals at 10:30 A.M. on March 18, others heard well on that day are KRZH, KZRM, MTCY, PLP, LKV, LKQ, and TAP. (Hoadley-Ont.)

XGOX at zechwan on 15200 kcs. is heard broadcasting to North America from 8:30 to 10:45 P. M. Listeners are

cordially invited to write, address is "The Voice of China" Station XG-OX, Chungking, China. (Long-Ga., Fisher-Mich., Kempton-Mass., Jewell-Calif., Hoadley-Ont.)

Colombia

HJAG is now transmitting on a second frequency of 9810 kcs. and conducts tests after 6 P. M. irregularly. (Williams-N.J.)

HJCP Bogota, Colombia on 9630 kcs. is a new station, heard giving a test program from 5:03 P.M. to 5:10 P.M. Signal was very strong. (Kastner-Texas)

HJBB on 4815 kcs. is the new call of HC2BAB at Cucuta, Colombia relaying HJBC the former HJ2BAC of the same city. They broadcast until 11 P. M. (Stephenson-Okla.)

Costa Rica

TIPG at San Jose on 9616 kcs. broadcast an English hour every Wednesday and Saturday from 9 to 10 P.M. called The Hour of Costa Rica. (Kastner-Texas)

Cuba

COX 7 on 4290 kcs. Operated by the Cuban Army, with 5 kw, broadcasts every day from 6 to 10:30 P.M. (Rodriguez-Cuba)

COX 4 on 6390 kcs. Operated by the Cuban Army, with 5 kw, broadcasts daily from 2 to 3 P.M. (Rodriguez-Cuba)

COCY on 9230 kcs. Operated by Autran & Carbo with 2 kw., G. No 509 Vevado, Habana, Cuba. They broadcast daily from 5 to 8:30 P.M. and relay CMCY, QRA Cuerpo de Cultura del Ejercito Constitucional, Ciudad Militar, Marianao, Cuba. (Rodriguez-Cuba)

CMY on 8415 kcs. is a new station heard between 4 and 5 P.M. daily. Address is Observatorio del Colegio de Montserrat, Cienfuegos, Cuba. (Williams-N.J.)

COCQ on 6360 kcs. a new frequency COHI heard on 4275 kcs. (Bendes-Pa.)

COBQ (relaying CMBQ) will be the new call of COGF. The new slo-

gan will be "Radioteatro Ideas Pazos" (Ramirez-Cuba)

Denmark

On account of lack of coal in Denmark the transmissions have to finish at 5 p. m. whereas they formerly lasted until 7 p. m. or 7:30 p. m. "Dansmarks Kortwellesender," the Danish shortwave station, relays, but not regularly, the Danish program until 5 p. m. on about 40 meters. (Jansen-Netherlands)

Ecuador

HJCT on 9630 kcs. (new) National Radio heard on inauguration program 8 P.M. February 1st. (Burnham-Mass.)

HCIBJ on 12460 kcs. was heard testing a new 10000 watt transmitter in the afternoon with a strong signal. (Caldwell-Mass.)

Egypt

Station with good signal heard almost daily on about 38 mtrs. from 1:30 A.M. to 3:30 A.M. Signs off with Egyptian National Anthem, so the Nationality is evidently Egyptian. All speech is apparently Egyptian or Arabian as I can recognize what seems to be a station announcement, sounds like "HoonaKahera". At 1:30 A.M. there is the striking of a clock, only the prelude, no strokes indicating the hour. Programs consist of news, plays and Eastern music. (Jansen-Netherlands)

SUX on 7867 kcs. heard with Arabic program with a good signal. (Caldwell-Mass.)

Finland

OFE heard at 10:30 A.M. with a woman announcer and good signal. (Hathaway-Ill.)

Lahti on 16.85 mtrs., 19.75 mtrs., 25.47 mtrs., and 31.58 meters, and Helsinki on 49.02 mtrs., the Finish shortwave stations are still on during the war activities but occasionally close down during an air raid. (Jansen-Netherlands)

France

"Paris Mondial" has been shifting schedules and frequencies often since the war. We present herewith a few

scattered reports on when and where they were heard. On 11843 kcs. from 11:30 a.m. to 12:30 p.m. . . . On 9520 kcs., 11718 kcs., 11885 kcs. from 6 pm. to 12:30 a.m. . . . Heard signing off at 7:45 p.m. on 9520 kcs. . . . on 11843 kcs. news in English has been heard at noon . . . (Harris-Mass., Webb-Teas, Hankins-Pa., Shanks-Tenn., Horlick-Ohio, and Jewell-Calif.)

French Indo China

"RADIO SAIGON" on 11780 kcs. is heard with R8-9 signal between 8-9:30 a.m. They have a lady announcer and use two chimes preceding "Ice Radio Saigon" and one chime after the announcement. This usually comes at 8:15 a.m. Concert music is featured. (Shanks-Tenn.)

French Morocco

CNP on 8795 kcs. is located in Casablanca and is being heard between 3:15 and 4 p.m. daily (Williams-N.J.)

Germany

DJ stations have a new signal which sounds like a church bell. It tolls four times and is followed by four c.w. notes. (Kempton-Mass.)

DJB on 15220 kcs. has news in English from 9:15 a.m. to 9:25 a.m. (Bendes-Pa.)

DJD on 11770 kcs. and DJC on 6020 kcs. have news in English at 2 p.m. They verify by card for an IRC. Bendes-Pa.)

DJE on 17760 kcs. has news in German from 8-8:15 a.m. (Harris-Mass.)

A mystery station believed by the British to be in Dusseldorf transmits in French and English. They announce in French as "La Voix de la Paix" (The Voice of Peace) and transmits daily on 7210, 6270, and 6040 kcs., simultaneously. Programs consist of speeches against the French Government and gramophone records between text of the program. Station urges the necessity of peace for France stressing the force of the adversary, so this is idiction as to the operators. They pretend to be located in France. Signs off with "La Marseillaise" the French anthem and



PaoCS and his rig. He was formerly a trick bicycle rider and racer, and won innumerable medals and prizes throughout Europe for his prowess. He now is a teacher in Menandum, Netherlands.

shouting "Vive La France". Transmits at 12:30 P.M., 1:30 P.M., 2:30 P.M., 3:30 P.M., 4:30 P.M., with each broadcast lasting 20 minutes. (Jansen-Netherlands)

DXG on 6190 kcs. repeating the news in Spanish off DXX at 10 A.M. in synchronization with DJP. (Jansen-Netherlands.)

DXQ on 6170 kcs. on daily with news in English from 2:55 P.M. to 3:05 P.M. and news in French from 3:05 P.M. to 3:15 P.M., In synchronization with Podebrad on 4987 kcs. one of the Praha transmitters. (Jansen-Netherlands.)

DJA give news in Spanish at 3:20 P.M. (Jansen-Netherlands)

Great Britain

GSV on 17810 kcs. now broadcasts a program in English from 10:30 to 11:30 A.M. The news is given at 11:15 and at 11:30 the news is read in Afrikaans. (Bendes-Pa.)

GSP broadcast the news at 7 P.M. along with GSO (Bendes-Pa.)

GSD on 11520 kcs. heard from noon to 3:30 P.M. and 3:52 to 6 P.M. as well as at night 6:22 to 9:20 P.M. and 9:40 P.M. to 12:30 P.M. (Horlick-Ohio, Jewell-Calif.)

GSF on 11860 kcs. heard from 6:30 A.M. to 9 A.M. and from 1 to 3:30 P.M. (Horlick-Ohio)

GSJ on 21530 kcs. is heard from 9:15 to 11:30 a.m. . . GSI on from 11:52 a.m. to 3:30 p.m. and returns again at 6 p.m. . . GSC comes on at 6:22 p.m. until 9:20 p.m. . . GSB also comes on the air at 6:22 p.m. and is on to 9:20 p.m. (Horlick-Ohio)

Guatemala

TGWA on 9685 kcs. is heard with marimba music from 11-11:30 p.m. nightly (Jewell-Calif.) On 19 meter band TGWA is heard with marimba music from 12:45-1:30 p.m. (Woolcott-N.Y.)

TGWB on 6480 kcs. broadcasts simultaneously with TGWC on 2320 kcs., TGW on 1520 kcs., TGWB is the best heard in this section although only 1 kw. as compared to TGWA's 10 kw. (Jewell-Calif.)

TGWC on 2320 kcs. is heard every night at 11 p.m. (Podall-Vt.)

Honduras

HRN on 5875 kcs. at Tegucigalpa sent me their card in short time and signed by Paul John. The card is light grey with red call letters. Relayed by broadcast station on 1250 kcs., their schedule is 7 a.m. to 11 p.m. For those wishing a card—do not send an IRC as they do not accept them, but enclose one dime in an envelope. (Jewell-Calif.)

Hungary

HAD-3 on 11860 kcs. is one of the new Budapest stations and is broadcasting from 5-6:20 p.m. daily (Sullivan-Mass., and Coyle-Pa.)

HAS-3 on 15370 kcs. is heard Sundays from 9-10 a.m. with a good signal.

HAT-4 on 9125 kcs. has been heard daily from 7-8 p.m. and from 6 p.m. on Saturday. Music box chimes are heard five minutes previous to broadcasting. National Anthem is played at sign off. (Jewell-Calif.)

The new Budapest transmitters for HAT-5 on 9650 kcs. is another of South American transmissions. They broadcast from 5:35-7 p.m. (Sullivan-Mass., Coyle-Pa.)

Iceland

The transmission of the Rykjavik shortwave transmitter has been suspended indefinitely due to present conditions on 208 kcs. continues on regular world conditions. The longwave schedule. (Jansen-Netherlands)

India

VUD-2 on 9590 kcs. has been heard from 7 a.m. to 7:45 a.m. WBOS blocks the announcement at 7 and 7:30 a.m., but the English news comes in good. "Here in India" is mentioned often in news items. (Kempton-Mass.)

VUM-2 on 11870 kcs. gives news in English at 7:30 a.m., (along with VUM-2 on 4920 kcs., VUD-2 on 9590 kcs., VUD-2 on 4960 kcs., VUB-2 on 4880 kcs., and VUC-2 on 4840 kcs. (Shanks-Tenn.)

There is an All India Radio Station on the 25 meter band on the air every morning at 6 A.M. with an R6 signal at beginning and increases to an R7 signal at 6:30 A.M. I would like very much to know where it is located. (Long-Ga.) (Must be VUM-2 on 11-870 kcs.—RL)

Ireland

Athlone shortwave station on 9595 kcs. daily relays the medium wave station at Athlone "Radio Eireann" from 6:30 A.M. to 8 A.M. The station comes in here (Netherlands) with a good signal, but frequently sings off at about 8:45 A.M. The only full station identification is made when they come on at 6:30 A.M. On Sundays the shortwave station apparently operates from 6 to 9. (Jansen-Netherlands)

The Irish shortwave station is heard until 5 P.M. - Lady and man announcers. (Shanks-Tenn.)

Athlone on 17840 kcs. from 7:30 to 8:30 A.M. and 9 to 10 A.M. (Dawson-Ont.)

Italy

12RO 3 Rome on 9630 kcs. announces program for Australia and New Zealand 1 A.M. to 2:30 A.M. (Wells-Ont.)

IRF Rome, Italy was heard 7:10 calling WQO in New York with an R8 signal. Also WET in New York was heard lately contacting HBT in Geneva, Switzerland, their signal was with an R6-7 signal. RPQ is located R7 and PRQ also was heard along in Rio de Janeiro, Brazil. (Long-Ga.)

2RO4 on 11810 kcs. Sign off at 1:35 P.M. on Friday and announce schedule for balance of day. (Hankins-Pa.)

2RO6 on 15300 kcs. News in English at 10:45 A.M. and they give station announcements in English at 11 A.M. then continues transmitting in Italian. (Hankins-Pa.)

12RO-3, and 12RO-6 were heard in parallel broadcasting the American Hour at 8 p.m. (Bendes-Pa.)

Unidentified station in Rome on 15-230 kcs. seems to come on the air with the other 2RO stations at 10 a.m. (Webb-Teas)

Japan

JVL on 11660 kcs. heard R7 at 8 a.m. on a Saturday. (Shanks-Tenn.)

JZJ on 11800 kcs. is on from 7:30-8:30 p.m. A program consisting of American fox-trots heard from 9-9:30 a.m. (Hathaway - Ill., Shanks - Tenn., Jewell-Calif.)

JZK on 15160 kcs. is now sending verses. A card was received along with monthly broadcast report for North America. (Forrest-Okla.)

Java

PLP on 1100 kcs. is heard with good signals up to 7:30 p.m. when it fades.

PMN on 10260 kcs. is also heard in parallel, but with much weaker signal. Address for both stations: N.I.R.O.M., Batavia, Java, Netherlands Indies. Verification is a beautiful picture folder. (Jewell-Calif.)

Mexico

XETA on 9555 kcs. is on the air from Monterrey nightly from 5 p.m. to midnight. (Williams-N.J., Webb-Texas)

XEWV on 9500 kcs. is heard with R9 signals nightly up to 11:30 p.m. (Jewell-Calif.)

Mozambique

CR7BE on 9640 kcs. at Lourenço Marques is especially used to send programs to Angola, Portugal, and Europe and is heard beautifully with daily transmissions from 2-4 p.m. Announcements are in Portuguese and English. CR 7BE has a woman announcer and uses chimes for stand by signal. (Jansen-Netherlands)

CR7BE on 9640 kcs. is heard on Saturdays at 2 P. M. comes in as good as any European station with an R9 plus signal no interference as 2RO is not on. (Hathaway-Ill., Kempton-Mass., Caldwell-Mass., and Hoadley-Ont.)

CR7BD on 1966 kcs. and 15255 kcs., CR7BH on 2560 kcs. and 11718 kcs.,

CR7AA on 6035 kcs. and 6137 kcs., CR7BE on 3110 and 9645 kcs., and CR7AB on 8592 kcs. and 3490 kcs., CR 7BG on 1962 and 15285 kcs. are the stations in Lourenço Marques. Transmitter is at Matola and has 10 kw. Stations are intended for World wide coverage. Reports are requested. (Butcher-Port. E. Africa)

Netherlands

PCJ—Persons desiring to tune this station should try 9590 kcs. on Tuesday between 9:20 P.M. and 9:40 P.M. before and after this GSC on 9580 kcs. causes too much interference along with DXB. (Bonifield-N.J.)

Newfoundland

VONF in St. John Newfoundland was heard Thursday night on the 49 meter band with a good signal about and R6-7 with a news program at 6:15 and advertisements and music. The announcer announced VONF and VONG, with VONE relaying VONG. (Long-Ga.)

Norway

Official schedules of stations; LKJ-2 on 6130 kcs. has no schedule indicated as does LLG on 9610 kcs. LKQ on 11735 kcs. is on from 2 to 2:10 A.M. and from 5:15 to 8:50 A.M. LKV on 15170 kcs. is on from 11 A.M. to 1:30 P.M. and LLH on 9645 kcs. from 1:30 P.M. to 4 P.M. (Jansen-Netherlands)

Philippine Islands

KZRH on 9,630 kcs. at Manila is heard with good signals from 7 A.M. on. There slogan is the "Voice of the Philippines". (Kempton-Mass.)

KZIB on 9500 kcs. at Manila verified with a nice long letter stating that thus far I was the only one in Alabama that who had correctly reported the station. KZIB is an American owned station and is located atop the Crystal Arcade Building and owned by I. Beck, Inc., P. O. Box 440, Manila. (Jewell-Calif.)

Portugal

CSW-7 now broadcasts an English program from 3 to 3:30 P.M. on Saturday afternoons. CSW-7 is on 9740 kcs. instead of 9735 kcs. as listed in RADEX. They asked for reports and suggestions. (Jewell-Calif., and Bendes-Pa.)

Salvador

YSD on 7890 kcs. signing off at 10:45 P.M. February 8th with marimba music. (Wells-Ont., Jewell-Calif.)

Spain

EAQ in Madrid, Spain on 9860 kcs. Schedules are; Sunday 5 P. M. to 9 P.M. daily 5 P.M. to 7:30 P.M. and Saturdays from 1 to 3 P.M. There is a new transmission for Africa ending at 2 P.M. Exact schedule is not known. EAQ does not identify as Radio Nacional but rather as Radio Espana. (Long-Ga., Kastner-Texas, Jansen-Netherlands, Dalbow-Mo., and Horlick-Ohio)

EA2BH of Jaca on 7177 kcs., according to date received, is on daily from 10:30 to 11:15 A.M. (Jansen-Netherlands)

Sweden

Would appreciate accurate information on SBP and SBT concerning their "supposed to be" daily schedule at 1 P.M. Have listened for them several times and have heard stations in parallel on those frequencies, but have never been able to get English announcements for positive identification. Also they are not heard everyday but have heard them on Tuesday and Fridays only. (Hankins-Pa.)

RADEX

The Swedish shortwave stations are transmitting, since some time back, every evening from 8 to 9 over SBU on 9535 kcs. and SBP on 11705 kcs. News in English at sign on soon after 8. (Jewell-Calif., Magnuson-R.I.)

Switzerland

HBQ on 6675 kcs. heard February 2nd relaying Belgrade to New York. thru WQO Little Neck, New Jersey. Also on irregular mornings at 7:45 HBH and HBJ Geneva contacts WEB, New York, operating on about 14750 kcs. for the same type of program. (Wells-Ont., Webb-Texas, and Gerran-N.Y.)

Tahiti

FO8AA on 7090 kcs. at Papeete verified just recently after a wait of 17 months! Card is white with large red call letters and blue print. Printed in French, the card is signed by Alf Poroi, President. (Jewell-Calif.)

Turkey

TAP on 9465 kcs. in Ankara is heard in the afternoon from 2:30-4:30 p.m. with a very good signal. Both man and woman announcers are used. Reports were requested to be sent to the Turkish Broadcasting Corporation. (Long-Ga., and Shanks-Tenn.)

Uruguay

CXA-6 on 9625 kcs. at Montevideo, heard between 8:30 and 9 p.m. Spanish announcements only and symphony music featured. (Burnham-Mass., Webb-Texas)

U. S. A.

WCBX on 11830 is on daily from 1-6 p.m. with news in English at 1:30 p.m. (Horlick-Ohio)

WGEA on 15330 kcs. announces they are on from 8 a.m. to 6 p.m. for Europe. (Hathaway-Ill.)

WLWO on 6060 kcs. is on daily from 8 a.m. to 7 p.m. (Horlick-Ohio)

WPIT on 11870 kcs. signs off at 10 p.m. and goes on at 10:03 p.m. on 6140 kcs. (Horlick-Ohio)

WRUL on 6040 kcs. in Boston was heard testing January 21 with TGIX from 2:30-3:05 a.m. They dedicated "South of The Border" to Mr. Spatari

RADEX

and the boys at TGIX. WRUL verifies with a white card and blue lettering. (Wells-Ont., Catalano-Ill.)

U. S. R.

RAN on 9600 kcs. at Moscow heard with news and talks in English from 7 p.m. daily. (Jewell-Calif.)

RKI on 15080 kcs. is heard with English program from 7-8 p.m., but RM has interfered greatly with this broadcast lately. (Jewell-Calif.)

RV-96 on 15182 kcs. was heard with a speech in English about an Italian statesman from 8:30 p.m. A lady announced the program. Songs in Russian followed. (Bendes-Pa.)

Venezuela

YV3RX on 4990 kcs. at Barquisimeto, Venezuela heard from 6:30-9:30 p.m. daily and signs off with "Beer Barrel Polka" (Laudansky-Mass.)

YV1RU on 4810 kcs. (ex YV7R-MO), P. O. Box 100, Maracaibo is known as "Radiodifusora Maraibo". Sr. Luis Mantellini is no longer with the station. Sr. Fera Rincon is now the proprietor, owner and veri singer. Senor Rincon seems very pleasant and writes that he will be glad to receive new reports in the future. (Dissinger-Kans.)

Yugoslavia

"Radio Belgrade" on 9505 kcs. is heard with a good signal from 4-5:30 p.m. (Shanks-Tenn., and Butcher-Portuguese W. Africa)

RADEX REPORTERS

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

R49: Davis Hill, Washington, D. C.

R152: Matty Williams, Newark, N. J.

R451: Chet Roman, Chicago, Ill.

R638 Vt. 5: Edward H. Draper, West Burke, Vt.

R771: Jack Hathaway, Danville, Ill.

R800: Myron Ksenich, Lorain, Ohio.

R803: Chas. Gerran, Jamestown, N. Y.

R834: G. R. Jewell, Jr. Los Angeles, Cal.

R849: Kenneth Brown, Hyde Park, Mass.

R946: Bertram Podall, Gilman, Vt.

R1088: Ralph Kastner, New Braunfels, Texas.

R1132: C. R. Bendes, Pittsburgh, Pa.
R1273: Ga. 5: John D. Long, Dalton, Georgia.

R1312: Lester E. Balcome, Malden, Mass.

R1318: Kyle C. Bonifield, Asbury Park, N. J.

R1319: Alton L. Caldwell, Brockton, Mass.

R1342: Henry Bennett, Collingswood, N. J.

R1404: Bee Catalano, Chicago, Ill.

R1412: Helen H. Lind, Lakewood, Ohio.

R1441: L. F. Dalbow, Kansas City, Kansas.

R1470: Stephenson, Oklahoma City, Oklahoma.

R1566: Roy Woollacott, Rochester, N. Y.

R1632: Clarence Burnham, Gloucester, Mass.

R1661: Dawson Hoadley, Ontario, Canada.

C. R. Bendes, Pittsburgh, Pa.

W. H. Brash, Washington, D. C.

Eric Butcher, Beira Portuguese, East Africa.

Charles L. Carroll, Rahway, N. J.

Isaac T. Davis, Elkhart, Texas.

Ray Dissinger, Lawrence, Kansas.

Forest S. Fisher, Battle Creek, Mich.

Artie Fleming, Parkville, Mo.

Ernest R. Forrest, Oklahoma City, Oklahoma.

Gil Harris, North Adams, Mass.

Joseph H. Horlick, Youngstown, Ohio.

Anton Jenson, Boskoop, Netherlands.

Rudolph D. Juet, Madison, Ind.

A. L. Kempton, Harding, Mass.

Edward Loudansky, Dorchester, Mass.

Gustave A. Magnuson, Providence, P. P. Malley, Pittsburgh, Pa.

R. I.

Charles Meyers, Chicago, Ill.

Alfred Mozzi, Menden, Conn.

Carlos Ramirez G, Havana, Cuba.

F. P. Rogers, Jamestown, N. Y.

John H. Sanders, Williamsport, Pa.

Joseph Schwartz, Bronx, N. Y.

John A. Shanks, Russellville, Tenn.

T. J. Soto, Chicago, Ill.

(Continued on page 53)

The Monthly Frequency Checks

FOR the purpose of checking the frequencies of small stations which cannot be heard satisfactorily on their regular daily transmissions, the Federal Communications Commission requires monthly monitoring broadcasts from a selected group of stations. Following is the latest available. All time is am., Eastern Standard.

Second Monday

2:55-3:10	1310	WBRK	2:45-5:00	1370	KFGQ
		Pittsfield, Mass.			Boone, Iowa
3:00-3:15	1370	WABY	4:50-5:05	1420	KRBC
		Albany, N. Y.			Abilene, Texas
3:05-3:20	1420	WMAS	4:55-5:10	1200	KGHI
		Springfield, Mass.			Little Rock, Ark.
3:10-3:25	1200	WCAX	5:00-5:15	1370	KTEM
		Burlington, Vt.			Temple, Texas
3:15-3:30	1370	WRDO	5:05-5:20	1390	KABR
		Augusta, Maine			Aberdeen, S. D.
3:20-3:35	1420	WAGM	5:10-5:25	1200	KGEK
		Presque Isle, Me.			Sterling, Colo.
3:25-3:40	1210	WHAI	5:15-5:30	1370	KFJZ
		Greenfield, Mass.			Fort Worth, Tex.
3:30-3:45	1390	WQDM	5:20-5:35	1420	WMBH
		St. Albans, Vt.			Joplin, Mo.
3:35-3:50	1310	WMFF	5:25-5:40	1200	WIL
		Plattsburg, N. Y.			St. Louis, Mo.
3:45-4:00	1220	WCAD	5:30-5:45	1370	WOC
		Canton, N. Y.			Davenport, Iowa.
3:45-4:00	1500	KVWC	5:35-5:50	1420	KABC
		Vernon, Texas			San Antonio, Tex.
3:50-4:05	1310	WLNH	5:40-5:55	1200	KADA
		Laconia, N. H.			Ada, Oklahoma
3:55-4:10	1200	WIBX	5:45-6:00	1370	KLUF
		Utica, N. Y.			Galveston, Texas
4:00-4:15	1500	WWRL	5:50-6:05	1190	KTKC
		Woodside, N. Y.			Visalia, Calif.
4:00-4:15	1370	KVRS	5:55-6:10	1400	KHBC
		Rock Springs, Wyo.			Hilo, Hawaii.
4:05-4:20	1310	WMBO	6:00-6:15	1370	KRE
		Auburn, N. Y.			Berkeley, Calif.
4:10-4:25	1210	WBRB	6:05-6:20	1500	KXO
		Red Bank, N. J.			El Centro, Calif.
4:10-4:25	1420	KDNT	6:10-6:25	1200	KGW
		Denton, Texas			Stockton, Calif.
4:15-4:30	1500	KPAB	6:15-6:30	1370	KERN
		Laredo, Texas			Bakersfield, Calif.
4:20-4:35	1310	KVOX	6:20-6:35	1420	KUMA
		Moorhead, Minn.			Yuma, Arizona.
4:25-4:40	1210	KFPW	6:25-6:40	1200	KVCV
		Fort Smith, Ark.			Redding, Calif.
4:30-4:45	1370	WMIN	6:30-6:45	1280	KLS
		St. Paul, Minn.			Oakland, Calif.
4:35-4:50	1420	KNET	6:35-6:50	1040	KYOS
		Palestine, Texas			Merced, Calif.
4:40-4:55	1200	WBBZ	6:40-6:55	1200	KSUN
		Ponca City, Okla.			Lowell, Arizona.
			6:45-7:00	1100	KGDM
					Stockton, Calif.
			6:50-7:05	1450	KIEM
					Eureka, Calif.

RADEX

6:55-7:10	1200	KVEC	4:05-4:20	610	WCLE
		San Luis Obispo			Cleveland, Ohio.
7:00-7:15	1310	KARM	4:10-4:25	1210	KALB
		Fresno, Calif.			Alexandria, La.
7:05-7:20	1420	KGLU	4:10-4:25	1310	WLBC
		Safford, Arizona			Muncie, Indiana.
Second Tuesday					
2:55-3:10	1210	WRAL	4:15-4:30	1370	KELD
		Raleigh, N. C.			El Dorado, Ark.
3:00-3:15	1310	WSJS	4:15-4:30	1500	WOPI
		Winston-Salem, N. C.			Bristol, Tenn.
3:05-3:20	1420	WMFJ	4:15-4:30	1200	WWAE
		Daytona Beach, Fla.			Hammond, Indiana
3:10-3:25	1200	WAIM	4:20-4:35	1420	WACO
		Anderson, S. C.			Waco, Texas.
3:15-3:30	1370	WMFD	4:20-4:35	1410	WBCM
		Wilmington, N. C.			Bay City, Mich.
3:20-3:35	1420	WEED	4:25-4:40	1440	KXYZ
		Rocky Mount, N. C.			Houston, Texas.
3:25-3:40	1200	WJNO	4:25-4:40	1210	WSIX
		West Palm Beach, Florida.			Nashville, Tenn.
3:25-3:40	1210	WJMC	4:25-4:40	1310	WCMI
		Rice Lake, Wis.			Ashland, Ky.
3:30-3:45	1500	WRDW	4:30-4:45	1370	KGKL
		Augusta, Georgia.			San Angelo, Tex.
3:35-3:50	610	WIOD	4:30-4:45	1200	WHBY
		Miami, Florida.			Green Bay, Wis.
3:35-3:50	940	WICA	4:35-4:50	1420	KCMC
		Ashtabula, Ohio.			Texarkana, Texas
3:40-3:55	1200	WAYX	4:35-4:50	1310	KSGN
		Waycross, Ga.			Birmingham, Ala.
3:40-3:55	1210	WLOK	4:35-4:50	1390	WHK
		Lima, Ohio.			Cleveland, Ohio.
3:45-4:00	1500	WDNC	4:40-4:55	1260	KRGV
		Durham, N. C.			Weslaco, Texas
3:45-4:00	1370	WPAY	4:40-4:55	1210	WCOV
		Portsmouth, Ohio			Montgomery, Ala.
3:50-4:05	1250	WAIR	4:40-4:55	1320	WADC
		Winston-Salem, N. C.			Akron, Ohio.
3:55-4:10	1310	KWOC	4:45-5:00	1370	KTOK
		Poplar Bluff, Mo.			Oklahoma City, Okla.
3:55-4:10	1200	WMFR	4:45-5:00	1200	WJHL
		High Point, N. C.			Johnson, City, Tenn.
3:55-4:10	1210	WALR	4:45-5:00	1500	WJBK
		Zanesville, Ohio			Detroit, Mich.
4:00-4:15	1500	WHBB	4:50-5:05	1420	KGFF
		Selma, Alabama.			Shawnee, Okla.
4:00-4:15	550	WKRC	4:55-5:10	1210	KFVS
		Cincinnati, Ohio			Cape Girardeau, Mo.
4:05-4:20	1420	KFAM	5:00-5:15	1370	KMAC
		St. Cloud, Minn.			San Antonio, Texas
			5:05-5:20	1310	KAND
					Corsicana, Tex.

5:10-5:25	1210	KLAAH	Carlsbad, N. Mexico	3:25-3:40	1210	WBAX	Wilkes-Barre, Pa.
5:15-5:30	1370	KIUP	Durango, Colo.	3:30-3:45	1310	WHAT	Philadelphia, Pa.
5:20-5:35	1310	KOCY	Oklahoma City, Okla.	3:35-3:50	1500	WRTD	Richmond, Va.
5:25-5:40	1210	KDLR	Devils Lake, N. D.	3:40-3:55	1210	WBBL	Richmond, Va.
5:30-5:45	1370	KICA	Clovis, N. Mexico	3:45-4:00	1370	WBNY	Buffalo, N. Y.
5:35-5:50	1320	KGMB	Honolulu, Hawaii	3:45-4:00	1310	KOME	Tulsa, Oklahoma.
5:40-5:55	1200	KBTM	Jonesboro, Ark.	3:50-4:05	1410	WHIS	Bluefield, W. Va.
5:45-6:00	1370	KRMC	Jamestown, N. D.	3:50-4:05	1500	KWEW	Hobbs, New Mexico
6:05-6:20	1420	KORE	Eugene, Oregon.	3:55-4:10	1210	WKOK	Sunbury, Pa.
6:10-6:25	1200	KOOS	Marshfield, Ore.	4:00-4:15	1310	WFBG	Altoona, Pa.
6:20-6:35	1500	KPQ	Wenatchee, Wash.	4:05-4:20	1420	KRIC	Beaumont, Texas.
6:25-6:40	1200	KFXD	Nampa, Idaho	4:05-4:20	880	WQAN	Scranton, Pa.
6:30-6:45	1370	KUJ	Walla Walla, Wash.	4:05-4:20	1500	WGIL	Galesburg, Ill.
6:35-6:50	1500	KRNR	Roseburg, Ore.	4:10-4:25	1200	KWNO	Winona, Minn.
6:40-6:55	1200	KVOS	Bellingham, Wash.	4:10-4:25	1400	WHDL	Olean, N. Y.
6:45-7:00	1370	KEEN	Seattle, Wash.	4:15-4:30	1330	KRIS	Corpus Christi, Tex.
6:55-7:10	780	KWLK	Longview, Wash.	4:15-4:30	1310	WEBR	Buffalo, N. Y.
7:00-7:15	1370	KRKO	Everett, Wash.	4:15-4:30	1370	WIBM	Jackson, Mich.
7:05-7:20	1420	KLBM	La Grande, Ore.	4:20-4:35	1500	KBST	Big Spring, Texas
7:10-7:25	1200	KAST	Astoria, Ore.	4:20-4:35	1420	WPAP	Parkersburg W. Va.
Second Wednesday				4:25-4:40	1430	KSO	Des Moines, Iowa
2:55-3:10	1200	WEST	Easton, Pennsylvania	4:25-4:40	1250	WKST	New Castle, Pa.
3:00-3:15	1310	WTEL	Philadelphia, Pa.	4:25-4:40	1200	WCLO	Janesville, Wis.
3:05-3:20	1500	WNBF	Binghamton, N. Y.	4:30-4:45	1310	KROC	Rochester, Minn.
3:10-3:25	1200	WLVA	Lynchburg, Va.	4:30-4:45	780	WPIC	Sharon, Pa.
3:15-3:30	1310	WSAJ	Grove City, Pa.	4:30-4:45	1370	WEOA	Evansville, Ind.
3:20-3:35	1500	WWSW	Pittsburgh, Pa.	4:35-4:50	1500	KDAL	Duluth, Minn.

4:35-4:50	1210	WJLS	Beckley, W. Va.	3:00-3:15	1500	WKAT	Miami Beach, Fla.
4:35-4:50	1420	WELL	Battle Creek, Mich.	3:05-3:20	1200	WJRD	Tuscaloosa, Ala.
4:40-4:55	1120	WTAW	College Sta, Tex.	3:10-3:25	1210	WSOC	Charlotte, N. C.
4:40-4:55	1200	WHBC	Canton, Ohio.	3:15-3:30	1310	WAML	Laurel Miss.
4:45-5:00	1310	KRMD	Shreveport, La.	3:20-3:35	1370	WPRA	Mayaguez, P. R.
4:45-5:00	1370	WSAU	Wausau, Wis.	3:25-3:40	1210	WPAX	Thomasville, Ga.
4:50-5:05	1500	KNEL	Brady, Texas	3:30-3:45	560	WQAM	Miami, Florida.
4:50-5:05	1420	WLAP	Lexington, Ky.	3:35-3:50	1420	WPRP	Ponce, P. R.
4:55-5:10	560	KFDM	Beaumont, Texas.	3:40-3:55	1200	WFTC	Kinston, N. C.
4:55-5:10	1200	WFAM	South Bend, Ind.	3:45-4:00	1240	WKAQ	San Juan, P. R.
5:00-5:15	1310	KPDN	Pampa, Texas.	3:50-4:05	1440	WBIG	Greensboro, N. C.
5:00-5:15	1370	WHLS	Port Huron, Mich.	3:50-4:05	1500	WDAN	Danville, Ill.
5:05-5:20	1500	KPLT	Paris, Texas	3:55-4:10	1210	WFOY	St. Augustine, Fla.
5:05-5:20	1420	WCBS	Springfield, Ill.	4:00-4:15	1370	WAGF	Dothan, Ala.
5:10-5:25	570	KGKO	Fort Worth, Texas	4:05-4:20	1500	KPLC	Lake Charles, La.
5:15-5:30	1310	KFPL	Dublin, Texas.	4:05-4:20	1310	WFDF	Flint, Mich.
5:15-5:30	1370	WDWS	Champaign, Ill.	4:10-4:25	1210	WGRM	Grenada, Miss.
5:15-5:30	1500	KAWM	Gallup, N. Mexico	4:10-4:25	1340	WSPD	Toledo, Ohio.
5:20-5:35	1420	WPAD	Paducah, Ky.	4:15-4:30	1370	WMFO	Decatur, Ala.
5:25-5:40	1210	KGLO	Mason City, Iowa	4:15-4:30	1200	WCPO	Cincinnati, Ohio
5:25-5:40	1200	WJBC	Bloomington, Ill.	4:20-4:35	1500	WKEU	Griffin, Ga.
5:30-5:45	1310	KRRV	Sherman, Texas	4:20-4:35	1420	KFIZ	Fond du Lac, Wis.
5:30-5:45	1370	WGL	Fort Wayne, Ind.	4:25-4:40	1210	WGCM	Gulfport, Miss.
5:35-5:50	1500	KGKY	Scottsbluff, Neb.	4:25-4:40	630	WGBF	Evansville, Ind.
5:40-5:55	1210	WIBU	Poynette, Wis.	4:30-4:45	1310	KFYO	Lubbock, Texas
5:45-6:00	1310	KRBA	Lufkin, Texas.	4:30-4:45	1370	WFOR	Hattiesburg, Miss.

4:30-4:45	940	WAVE	Louisville, Ky.	5:55-6:10	1210	KIUL	Garden City, Kan.
4:35-4:50	1410	KFJM	Grand Forks, N. D.	5:55-6:10	1260	KVOA	Tucson, Arizona
4:35-4:50	1430	WMPS	Memphis, Tenn.	6:00-6:15	1200	KVNU	Logan, Utah.
4:35-4:50	1500	WTMV	East St. Louis, Ill.	6:05-6:20	1310	KHUB	Watsonville, Calif.
4:40-4:55	1240	KGCU	Mandan, N. Dak.	6:10-6:25	1420	KSAN	San Francisco, Calif.
4:40-4:55	1200	WBHP	Huntsville, Ala.	6:15-6:30	1370	KGAR	Tucson, Arizona.
4:40-4:55	1380	KQV	Pittsburgh, Pa.	6:20-6:35	1310	KSRO	Santa Rosa, Calif.
4:45-5:00	1310	KWOS	Jefferson City, Mo.	6:25-6:40	740	KTRB	Modesto, Calif.
4:45-5:00	880	WCOC	Meridian, Miss.	6:30-6:45	1070	KJBS	San Francisco, Calif.
4:45-5:00	1370	WGRC	New Albany, Ind.	6:35-6:50	1310	KSUB	Cedar City, Utah
4:50-5:05	1500	KOTN	Pine Bluff, Ark.	6:40-6:55	1210	KDON	Monterey, Calif.
4:55-5:10	760	WEW	St. Louis, Mo.	6:45-7:00	750	KGU	Honolulu, T. H.
4:55-5:10	1420	WJMS	Ironwood, Mich.	6:50-7:05	1260	KHSL	Chico, Calif.
5:00-5:15	1320	KGHF	Pueblo, Colo.	6:55-7:10	1210	KROY	Sacramento, Calif.
5:00-5:15	1370	WHDF	Calumet, Mich.	3:00-3:15	1370	Second Friday	
5:05-5:20	1500	KGFI	Brownsville, Texas	3:05-3:20	1310	WSVS	Buffalo, N. Y.
5:05-5:20	1310	WTRC	Elkhart, Indiana	3:10-3:25	1210	WJAC	Johnstown, Pa.
5:10-5:25	1210	KHBG	Okmulgee, Okla.	3:15-3:30	1370	WJTN	Jamestown, N. Y.
5:15-5:30	1370	KONO	San Antonio, Tex.	3:20-3:35	1420	WBLK	Clarksburg, W. Va.
5:20-5:35	1500	KGKB	Tyler, Texas.	3:25-3:40	1280	WLEU	Erie, Pa.
5:25-5:40	1210	KASA	Elk City, Okla.	3:25-3:40	1210	WCAP	Asbury Park, N. J.
5:30-5:45	1370	KFRO	Longview, Texas	3:30-3:45	550	WSAY	Rochester, N. Y.
5:35-5:50	1500	KNOW	Austin, Texas	3:30-3:45	1310	WDEV	Waterbury, Vt.
5:40-5:55	1210	WMFG	Hibbing, Minn.	3:35-3:50	1500	WGH	Newport News, Va.
5:45-6:00	1420	KRLH	Midland, Texas.	3:35-3:50	1420	WCNW	Brooklyn, N. Y.
5:50-6:05	1310	KCRJ	Jerome, Arizona	3:40-3:55	1210	WMBS	Uniontown, Pa.
						WFAS	White Plains, N. Y.

3:40-3:55	1350	WMBG	Richmond, Va.	4:45-5:00	1310	WEXL	Royal Oak, Mich.
3:45-4:00	1430	WOKO	Albany, N. Y.	4:50-5:05	1500	WOMI	Owensboro, Ky.
3:45-4:00	1310	WRAW	Reading, Penn.	4:55-5:10	1200	KFJB	Marshalltown, Ia.
3:50-4:05	1500	WSYB	Rutland, Vt.	5:00-5:15	1230	KGGM	Albuquerque, N. M.
3:50-4:05	1370	WDAS	Philadelphia, Pa.	5:00-5:15	1310	WBEO	Marquette, Mich.
3:55-4:10	1210	KWJB	Globe, Arizona.	5:05-5:20	1420	KGIW	Alamosa, Colo.
3:55-4:10	1290	WNBZ	Saranac Lake, N. Y.	5:05-5:20	1500	WKBV	Richmond, Ind.
3:55-4:10	570	WSYR	Syracuse, N. Y.	5:10-5:25	1200	KGDE	Fergus Falls, Minn.
4:00-4:15	1310	WBRE	Wilkes-Barre, Pa.	5:15-5:30	1370	KGFL	Roswell, N. Mexico
4:05-4:20	1500	WNLC	New London, Conn.	5:15-5:30	1310	WEMP	Milwaukee, Wis.
4:05-4:20	1370	WBTM	Danville, Va.	5:20-5:35	1420	KEUB	Price, Utah.
4:10-4:25	1210	WGBB	Freeport, N. Y.	5:25-5:40	1200	WCAT	Rapid City, S. D.
4:10-4:25	1430	WHEC	Rochester, N. Y.	5:35-5:40	1210	WEBQ	Harrisburg Ill.
4:15-4:30	1200	WTHT	Hartford, Conn.	5:30-5:45	1370	KWYO	Sheridan, Wyoming
4:15-4:30	1420	WAZL	Hazleton, Pa.	5:35-5:50	1420	KIDW	Lamar, Colo.
4:20-4:35	1500	WMBQ	Brooklyn, N. Y.	5:40-5:55	1200	KFXJ	Grand Junction, Colo.
4:20-4:35	1370	WRAC	Williamsport, Pa.	5:45-6:00	1230	KGBX	Springfield, Mo.
4:25-4:40	1220	WGNV	Newburg, N. Y.	5:50-6:05	1310	KVSF	Santa Fe, N. Mexico
4:25-4:40	1310	WBOW	Terre Haute, Ind.	5:55-6:10	1370	KOKO	La Junta, Colo.
4:30-4:45	1200	WJBL	Decatur, Ill.	Second Saturday			
4:35-4:50	1420	KATE	Albert Lea, Minn.	3:30-3:45	1420	WGNC	Gastonia, N. C.
4:35-4:50	1500	WKBB	Dubuque, Iowa.	3:30-3:45	1200	WTOL	Toledo, Ohio.
4:35-4:50	1370	WBTH	Williamson, W. Va.	3:35-3:50	1500	WKBZ	Muskegon, Mich.
4:40-4:55	890	KARK	Little Rock, Ark.	3:40-3:55	1210	WJW	Akron, Ohio.
4:40-4:55	1210	WJIM	Lansing, Mich.	3:45-4:00	1420	WNOE	New Orleans La.
4:45-5:00	1370	WHLB	Virginia, Minn.	3:45-4:00	1430	WBNS	Columbus Ohio.
				3:50-4:05	1200	WOLS	Florence S. C.

3:50-4:05	1450	WGAR
		Cleveland Ohio.
3:55-4:10	1500	KSAM
		Huntsville Tex.
3:55-4:10	1310	WLAK
		Lakeland, Fla.
3:55-4:10	1210	WCOL
		Columbus, Ohio.
4:00-4:15	1360	WQBC
		Vicksburg, Miss.
4:00-4:15	1070	WCAZ
		Carthage, Ill.
4:05-4:20	1120	WJBO
		Baton Rouge, La.
4:05-4:20	1380	WING
		Dayton, Ohio.
4:10-4:25	1500	KUTA
		Salt Lake City, Utah.
4:10-4:25	1310	WTAL
		Tallahassee, Fla.
4:10-4:25	1210	WOMT
		Manitowoc, Wis.
4:15-4:30	1370	KIUN
		Pecos, Texas.
4:15-4:30	1290	WNEL
		San Juan, P. R.
4:15-4:30	570	WOSU
		Columbus, Ohio.
4:20-4:35	1420	WMSD
		Muscle Shoals City, Ala.
4:20-4:35	1020	WDZ
		Tuscola, Ill.
4:25-4:40	1500	KYSM
		Mankato, Minn.
4:25-4:40	1310	WGTM
		Wilson, N. C.
4:25-4:40	1210	WHBU
		Anderson, Ind.
4:30-4:45	1450	KCMO
		Kansas City, Mo.
4:30-4:45	1200	WJBW
		New Orleans, La.
4:30-4:45	570	WKBN
		Youngstown, Ohio.
4:35-4:50	1010	WNAD
		Norman, Okla.
4:35-4:50	1420	WGCP
		Albany, Georgia.
4:35-4:50	1240	WXYZ
		Detroit, Mich.
4:40-4:55	1500	KOVC
		Valley City, N. D.

RADEX

4:40-4:55	1310	WTJS
		Jackson, Tenn.
4:40-4:55	1210	WTAX
		Springfield, Ill.
4:45-5:00	1290	KLCN
		Blytheville, Ark.
4:45-5:00	1370	WMBR
		Jacksonville, Fla.
4:45-5:00	1200	WMPC
		Lapeer, Mich.
5:50-5:05	1270	KGCA
		Decorah, Iowa.
4:50-5:05	1420	WSLI
		Jackson, Miss.
4:50-5:05	1050	WEAU
		Eau Claire, Wis.
4:55-5:10	1210	KOCA
		Kilgore, Texas.
4:55-5:10	1310	KVOL
		Lafayette, La.
5:00-5:15	1500	KBIX
		Muskogee, Okla.
5:05-5:20	1260	KPAC
		Port Arthur, Tex.
5:05-5:20	1370	WHBQ
		Memphis, Tenn.
5:10-5:25	1210	KANS
		Wichita, Kansas
5:10-5:25	1310	WROL
		Knoxville, Tenn.
5:15-5:30	1290	KTRH
		Houston, Texas
5:15-5:30	1200	KMLB
		Monroe, La.
5:20-5:35	1360	KLPM
		Minot, N. Dak.
5:20-5:35	1420	WHMA
		Anniston, Ala.
5:25-5:40	1210	KVSO
		Ardmore, Okla.
5:25-5:40	1500	WSTP
		Salisbury, N. C.
5:30-5:45	1270	KWLC
		Decorah, Iowa
5:35-5:50	1310	KTSM
		El Paso, Texas
5:40-5:55	1210	KWTN
		Watertown, S. Dak.
5:45-6:00	760	WLB
		Minneapolis, Minn.
5:50-6:05	1370	KOHB
		Rapid City, S. Dak.

RADEX

5:55-6:10	1210	KPFA
		Helena, Mont.
6:00-6:15	1250	KIT
		Yakima, Wash.
6:05-6:20	900	KGBU
		Ketchikan, Alaska
6:10-6:25	1210	KFJI
		Klamath Falls, Ore.
6:15-6:30	1310	KGEZ
		Kalispell, Mont.
6:25-6:40	1210	KGy
		Olympia, Wash.

6:30-6:45	1310	KXRO
		Aberdeen, Wash.
6:35-6:50	1450	KGCX
		Wolf Point, Mont.
6:40-6:55	1120	KFIO
		Spokane, Wash.
6:45-7:00	1430	KINY
		Juneau, Alaska
6:50-7:05	780	KFQD
		Anchorage, Alaska
6:55-7:10	1390	KRLC
		Lewiston, Idaho

DXer's Appointment Calendar

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

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

Regular DX Programs

First day of month, 4-4:30 am, WPAY, 1370 kcs., Portsmouth, Ohio.
Last day of month, 3-5 am, KWSC, 1220 kcs., Pullman, Wash.
Every Saturday, 2-3 am, WMBI, Chicago, Ill., 1080 kcs.
Every Saturday, 2:30-2:45 am, KLS, 1280 kcs., Oakland, Calif.
Every Saturday, 10:15-10:30 am, WEEU, 830 kcs., Reading, Pa.
Every Saturday at 10 pm, YN3DG, 13900 kcs., Leon, Nicaragua. (Spartari—10c for veries).
Every Saturday, 4:15-4:45 pm, W2XJI, 26300 kcs., Newark, N. J. (NNRC tips).
Every Saturday, 10 pm, YN3DG, 13900 kcs., Leon, Nicaragua. (Spartari program).
Every Sunday, 2-2:30 am, TG1 on 1310 and TG2 on 6190 kcs., Guatemala City, Guat.
Every Sunday, 3-5 am, CKLN, Nelson, B. C., 1420 kcs.
Every Sunday, 10:15-10:45 am, CFCO, 630 kcs., Chatham, Ont.
Every Sunday, 3-5 am, XEAC, 980 kcs., Tijuana, B. Cfa.
Every Sunday, 12:30-1 am, TGQA on 6400 and TGO on 1450 kcs., Quesaltenango, Guatemala. (Spartari program, all reports verified free).
First Sunday, at 1 am, YN3DG, 13900 kcs., Leon, Nicaragua. (Spartari program).

First and Third Sunday, 2-4 am, WJBO, 1120 kcs., Baton Rouge, La.
Every Tuesday, 11:45 am-noon, W9XA, 24450 kcs., Kansas City, Mo.
Every Wednesday, 12:30 am, KOY, 1390 kcs., Phoenix, Ariz.

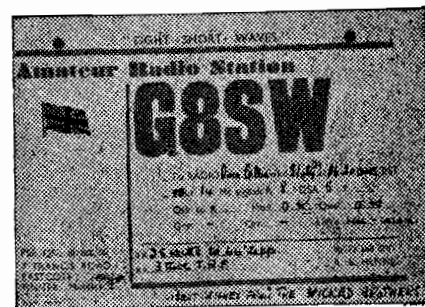
First and Third Wednesday, 1:45-2 pm, WTAR, 780 kcs., Norfolk, Va.
Every Thursday, 2:45-3 am, KSL, 1130 kcs., Salt Lake City, Utah. (Spartari announcements).

1st to 7th, midnight to 6 am, KPAB, 1500 kcs., Laredo, Tex. (Mexico Tourist Program; Mexican souvenirs sent to reporters).

8th to 14th, midnight to 2 am, KPAB, 1500 kcs., Laredo, Tex. (Mexico Tourist Program; Mexican souvenirs sent to reporters).

15th to 31st, midnight to 6 am, KPAB, 1500 kcs., Laredo, Tex. (Mexico Tourist Program; Mexican souvenirs sent to reporters).

Second Friday, 12:30-1 am, WJAG, 1060 kcs., Norfolk, Nebr.



The QSL card of "The Wicked Brothers," Bob and Frank Hennig, of Middlesex, England.

The SHORTWAVE STATIONS

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

Time is Eastern Standard.

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

- 2320 TGWC Guatemala City, Guat. 1 kw. See TGWA. Sun, 10:30 am-5:15 pm; 7 pm-midnight. Other days 7:45-9 am; 12:45-3:45 pm; 7:30 pm-12:15 am.
- 2340 HOA Panama City, Panama. "Ron Dalley." Salvador Graziani, Box 1121. (6-10 pm).
- 2437 HRN Tegucigalpa, Honduras. 500 w. Noon-1:30 pm; 7-10:30 pm. "La Voz de Honduras."
- 3400 YV5RW Caracas, Venez. "Radio Turmerito," Cesar Banula.
- 3450 YV6RC Barcelona, Venez. Gobierno Edo Anzoategui.
- 3480 YV3RF Acarigua, Venez. "La Voz del Llano," Pausides Sigala.
- 3480 2ZB Wellington, New Zealand. 200 w. At 7 am.
- 3488 XZZ Rangoon, Burma. 50 w. W. J. Byrnes, Burma Independent Wireless Sub-Division, Strand Road. (Sun, 8:30-10:30 pm; Daily 5:30-9 am; 8:20-10:30 pm).
- 3490 CR7AB Lourenco Marques, Mozambique. Sun, 5-7 am; 10 am-2 pm; Weekdays, midnight to 1 am; 4:30-6:30 am; 9:30-11 am; noon-4 pm. Radio Club de Mocambique, Box 594.
- 3500 YV5RV La Guaira, Venez. "Emisora Vargas," Gonzalo Veloz Mancera.
- 4002 CT2AJ Ponta Delgada, Azores. Wed, Sat, 5-7 pm.
- 4107 HCJB2 Quito, Ecuador. 1 kw. 7-8:15 am; 11:30 am-2:30 pm; 2:45-10:15 pm. "Broadcasting Provincial," Clarence W. Jones, Casilla 691.
- 4273 RVI5 Khabarovsk, U.S.S.R. 20 kw. 4-10 am. Miss Rowena Meyer, Radio Committee. Dunedin, New Zealand. 30 w. At 6 am.
- 4300 4ZB Maracaibo, Venez. "La Voz de la Fe," Pedro A. Bermudez V.
- 4770 YV1RT Trujillo, Venez. "Radio Trujillo," Pedro J. Torres.
- 4780 YV1RO Barranquilla, Colombia. 600 w. Relays HJ1ABA, "La Voz de Barranquilla," Apartado 715. Interval signal, 3 chimes.
- 4790 YV5RY Caracas, Venez. "La Voz de la Esfera," Edmundo Suegart.
- 4795 HJ3CAF Bogota, Colombia. 750 w. La Voz de Bogota.
- HJ6FAI Ibague, Colombia. 501 w. "Ecos del Combeima."
- 4800 YV1RV Maracaibo, Venez. "Ecos del Zulia," Luis Garcia.
- 4805 HJ6FAB Manizales, Colombia. 501 w. "Radio Manizales."
- 4810 YV1RU Maracaibo, Venez. "Radio-difusora Maracaibo," Luis Mantellini H.
- 4815 HJ2BAB Cucuta, Colombia. 600 w. Relays HJ2BAC, "La Voz de Cucuta."
- 4820 YV3RN Barquisimeto, Venez. "Radio Barquisimeto," Amilcar Segura.
- 4825 HJ5EAD Cali, Colombia. 720 w. "La Voz del Valle."
- 4830 YV5RH Caracas, Venez. Relays YV5RG, "Ondas Populares," Gonzalo Veloz Mancera, Aptdo. 1931.
- 4835 HJ1ABE Cartagena, Colombia. 525 w. Relays HJ1ABF, "La Voz de los Labs. Fuentes," Apartado 31.
- 4840 VUC2 Calcutta, India. 10 kw. 7:30 am-1 pm. All-India Radio.
- YV4RX Maracay, Venez. "Radio Maracay," Luis Croquer.
- 4845 HJ3CAD Bogota, Colombia. 720 w. "Nueva Granada."
- 4850 YV1RZ Trujillo, Venez. "Radio Valera," L. Febres Jelambi.
- 4860 YV1RL Maracaibo, Venez. 300 w. Relays YV1RK, "Radio Popular," sign off "National Emblem March." Jose A. Higuera, Apartado 247. (6-11 pm).
- 4865 HJ2BAJ Santa Marta, Colombia. 751 w. 10:30 am-2 pm; 5-11 pm. "La Voz de Santa Marta."
- 4870 YV2RN San Cristobal, Venez. "La Voz del Tachira," Jesus Diaz Gonzalez.
- 4875 HJ6FAH Armenia, Colombia. 600 w. 9 am-2 pm; 6-11:30 pm. "La Voz de Armenia."
- 4878 ZTD Durban, Union of S. Africa. Sec. "Johannesburg." (11:45 pm-12:50 am).
- 4880 VUB2 Bombay, India. 10 kw. 8 am-1 pm. All-India Radio.
- YV6RU Ciudad Bolivar, Venez. "Ecos del Orinoco," E. Torres Valencia.
- 4885 HJ4DAP Medellin, Colombia. 501 w. Relays HJ4DAQ. 9 am-2 pm; 7 pm-midnight. "Emisora Claridad."
- 4890 YV1RX Maracaibo, Venez. "Ondas del Lago," Nicolas Vale Quintero.
- 4895 HJ3CAH Bogota, Colombia. 720 w. "La Voz de la Victor." Relays HJ3CAI. Almacenes Victor, Aptdo 565.
- 4900 YV6RT Ciudad Bolivar, Venez. "Radio Bolivar," Miranda & Behrens.
- 4910 YV1RY Coro, Venez. "Radio Coro," Roger Leyba.
- 4920 VUM2 Madras, India. 10 kw. 7:30 am-1 pm. All-India Radio.

RADEX

- YV5RU Caracas, Venez. "Estudios Universo," Mario Garcia Arocha.
- 4930 YV4RP Valencia, Venez. "Radio Valencia," Luis Croquer.
- 4940 YV5RO Caracas, Venez. "La Voz de Venez.," Marquis y Linarea.
- 4950 YV4RO Valencia, Venez. "La Voz de Carabobo," Herman Degwitz.
- 4960 VUD2 Delhi, India. 10 kw. 7:30 am-1 pm. All-India Radio.
- YV5RS Caracas, Venez. "Radio Libertador," Victor M. Soto.
- 4975 YV1RJ Coro, Venez. "Radio Falcon," J. A. Mendoza.
- 4980 YV5RT Caracas, Venez. "Gobierno Nacional."
- 4990 YV3RX Barquisimeto, Venez. "La Voz de Lara," Arturo Ramos Maggi.
- 5000 YV5RK Caracas, Venez. Gobierno Nacional.
- 5010 YV5RM Caracas, Venez. "Radio-difusora Venez." Degwitz y Sibletz.
- 5020 YV4RQ Puerto Cabello, Venez. "Radio Pto. Cabello," Rafael A. Segura.
- 5040 YV5RN Caracas, Venez. Radio Caracas, "Almacen Americano."
- 5146 PMY Bandoeng, Java, N. E. I. 1 kw. Sat, 8 pm-3:30 am. Sun, 5:30 am-noon. Other days, 5:30 am-noon; 7 pm-3 am.
- 5300 ZIK3 Belize, Brit. Honduras. (8:30-8:50 pm).
- 5713 TGS Guatemala City, Guat. 200 w. Wed, Thur, Sat, 6-9 pm. Radiotransmisora de la Casa Presidencial."
- 5824 TIGPH San Jose, Costa Rica. 1 kw. "Alma Tica," Gonzalo Pinto H., Aptdo. 800. (7 pm-midnight).
- 5875 HRN Tegucigalpa, Honduras. 500 w. "La Voz de Honduras," Mr. Paul John. Interval, notes from national anthem, and signs off with "Goodnight Waltz." 8 pm-midnight.
- 5880 ZEA Salisbury, Southern Rhodesia. 325 w. Gen'l. P. O., Station Sec'y., Box 792. Sun, 3-5 am.
- 5940 PJC1 Willemstad, Curacao. 150 w. "Radio Curum," Curacaoche Radio Vereeniging, Emmastad, Curacao. 7:45-9:35 pm.
- 5945 TG2X Guatemala City, Guat. 200 w. "Policia Nacional." Tue, Wed, Fri, 11 am-1 pm. Sat, 11 am-3 pm.
- 5975 CS2WD Lisbon, Portugal. 250 w. Radio Renascenca, Rua do Capelo 5-2 esq.
- OAX4P Huancayo, Peru. 250 w. "Radio Andina Junin," J. Alberto Maduana, Cuzco 25.
- 5980 VONG St. John's, Newfoundland. Newfoundland Brdcatg. Corp. Relays VONF. 8:30 am-12:30 pm; 4:30-9:30 pm.
- 5984 HJ4DAG Quito, Colombia. 150 w. "La Voz del Choco."
- 5995 VUD2 Delhi, India. 10 kw. All-India Radio. 7:30 am-12:30 pm.
- 6000 CXA2 Montevideo, Uruguay. 5 kw. Cia. de Radio Publicidad Continental, J. C. Gomez 1431. 10 am-10 pm.
- HH2S Port-au-Prince, Haiti. Societe Haitienne de Radiodiffusion, Box 103. (7-10 pm).
- RV59 Moscow, U.S.S.R. 7-9:15 pm. Mexico City, D. F. 500 w. Interval signal, cuckoo call, and sign off with "Liebestraume." El Buen Tono, S. A., Apartado 79-44. 11 am-1 am.
- 6005 CFCX Montreal, P. Q. 75 w. Relays CFCF. Canadian Marconi Co., Ltd., Box 1690. Sun, 10 am-11:15 pm. Weekdays 7:45 am-1 am.
- HP5K Colon, Panama. 200 w. Relays HOK, "La Voz de La Victor, Apartado 33. Noon-2 pm; 6 am-midnight.
- 6007 XYZ Rangoon, Burma. 1500 w. Burma Independent Wireless Sub-Division, W. J. Byrnes, Strand Road. Sun, 8:30-10:30 pm; Daily 5:30-9 am; 8:20-10:30 pm).
- ZRH Pretoria, Union of So. Africa. 5 kw. See "Johannesburg." Sat, 9:30 am-4:45 pm; Sun, 8:40 am-noon; 12:15-3:15 pm; Other days, 9:30 am-3:30 pm; 11:45 pm-12:50 am.
- 6010 CJCX Sydney, N. S. I. kw. Relays CJCB. Eastern Broadcasters, Ltd., Radio Bldg. Sun, noon-1:30 pm; Weekdays 9 am-2:30 pm.
- PRA8 Recife, Brazil. 5 kw. "A Voz do Norte," Radio Club do Brasil, Avenida Cruz Cabuga 394. Time signals at Noon and 7 pm Brazil Time. Sign off with national anthem. 9 am-noon; 1-3 pm; 4-9 pm.
- 6015 HI3U Santiago de los Caballeros, D. R. 100 w. "La Voz del Comercio," Fernando Bertran, Apartado 23. Sign off "Mario la O" on organ and national anthem. 7:15-9 am; noon-2 pm; 4:45-8 pm.
- KEWI Mexico City, D. F. 400 w. Institucion Municipal de la V. I., Mina 56.
- 6020 DJC Berlin, Germany. 50 kw. See "Berlin." 11:30 am-4:25 pm.
- XEUV Veracruz, Ver. C. 20 w. "El Eco de Sotavento desde Veracruz," Av. Independencia 98. Verifies for 3c USA stamp. 8 am-midnight.
- 6025 HI1J San Pedro de Macoris, D. R. 100 w. Fausto M. Donastorg, Aptdo 204. (8-11 pm).
- 6030 CFVP Calgary, Alta. 100 w. Voice of the Prairies, Ltd., Toronto General Trusts Bldg. (Thur, 9 am-1 am; Sun, noon-midnight.)
- HP5B Panama City, Panama. 100 w. Estacion Radiodifusora Miramar de la Radio Panama, Apartado 910. 5-10 pm.
- 6035 TI7RVM Las Juntas, C. Rica. 500 w. "La Voz del Guanacasto," Ruben Venegas M.

RADEX

- 6040 KZIB Manila, Philippines. 1. Beck Inc., Box 440. (4-10 am; 6 pm-12:30 am).
 WSLA Boston, Mass. 20 kw. See WSLA.
 WDJM Miami, Fla. 5 kw. 10 pm-1 am. Relays WIOD. Ruth Richardson, Isle of Dreams Broadcasting Corp.
 YDA Tandjong Priok, N.E.I. 10 kw. NIROM. Sign off, "End of a Perfect Day."
 6042 HJ1ABG Barranquilla, Colombia. 600 w. Relays HJ1ABH. "Emisora Atlantico," Aptdo. 445. Villarrica, Paraguay. 1 kw. "Radio Cultura."
 6044 ZP14 Tampico, Tams. 100 w. Relays XEFW, Flores y Martinez, Francisco I. Madero 204 Ote. Sun, 10 am-4 pm. Weekdays, 10 am-10 pm.
 6045 XETW M. V. "Kanimbla." 50 w. Sign off "God Save the King." McIlwraith & McEachern, Ltd., Melbourne, Australia. (7:15 am).
 6053 VK9MI Pereira, Colombia. 501 w. "La Vox de Pereira." 25 kw. Bern, Switzerland. 25 kw. See eBrn.
 6054 HJ6FAB Nairobi, Kenya. Cable & Wireless, Ltd., Box 777. 11 am-2:30 pm.
 6055 Philadelphia, Pa. 10 kw. See "WCAB." (Sun, 6:30-11 pm; Tu, F, 6:30-11 pm; Wed, 6:30-8:30 pm).
 6060 VQ7LO Cincinnati, Ohio. 10 kw. See "WLWO."
 6065 SBO Stockholm, Sweden. 500 w. 5:15-5 pm. Telegrafverket Tjanstebrev 5.
 6070 CFRX Toronto, Ont. 1 kw. Sun, 10:30 am-midnight. Weekdays 7:30 am-midnight. Relays CFRB. Rogers Radio Broadcasting Co., 622 Fleet St.
 6079 DJM Berlin, Germany. 50 kw. See Berlin.
 6080 CKFX Vancouver, B. C. 10 w. Relays CKFC Standard Brcdstg. Sys., 1504 Sun Bldg. 2 pm-midnight.
 HP5F Colon, Panama.
 XEQQ Mexico City, D. F.
 6082 OAX4Z Lima, Peru. 10 kw. Radio Nacional. Relays OAX4A, Av. Petit Thouars 447.
 6090 ZNS Nassau, Bahamas. Superintendent of Telegraphs, Box 48 (No postage required for veries).
 6097 1/2 ZRJ Johannesburg, Union of So. Africa. 200 w. See "Johannesburg." Sat, midnight to 12:50 am; 3:15-7 am; 8:30-11:30 am; Sun, 3:30-4:30 am (or 4-5 am); 5:30-7 am; 8:40-11:30 am; Other days, 3:15-7 am; 9 am-1:30 pm; 11:45 pm-12:50 am.
 ZRK Capetown, Union of So. Africa. 5 kw. See "Johannesburg." Sun, 3:30-4:30 am (or 4-5 am); 5:30-7 am; 9 am-11:45 am; noon-3:20 pm; Weekdays, 3:20-7:20 am; 9:11-4:55 am; noon-4 pm; 11:45 pm-12:50 am.
 6100 KZRH Manila, Philippines. "Radio Heacock," Escolta (5-11 pm).
 W9XF Chicago, Ill. 10 kw. Relays NBC-WENR. Audience Mail Dept., NBC, Inc., Merchandise Mart. Sat, 1:05-2 am; 4-5:30 pm; Sun, 1-5:45 pm; Other days, 1:05-2 am; 4-5:45 pm.
 YUA Belgrade, Yugoslavia. 1 kw. 12:45 am-5:30 pm. "Radio Beograd," Bureau Central de Presse, Poste Emetteur a Ondes Courtes. Announce in Serbian, Italian, English, German, Turkish, Hungarian, Albanian, and Greek. (12:45 am-5:05 pm).
 6105 HI3C La Romana, D. R. 30 w. A. Herrero Hernandez.
 6110 GSL London, Gt. Britain. "L for Liberty." See "London."
 XEGW Mexico City, D. F. 250 w. Jose G. Garza Fox, San Juan de Letran 81.
 6116 Saigon, Fr. Indo-China. "Radio Saigon." (6 am).
 6120 WCBX New York, N. Y. 10 kw. See "WCBX." (Midnight-2 am).
 6122 HI8T San Cristobal, D. R. 30 w. Raul Henriques.
 FK8AA Noumea, New Caledonia. Relays RFP. Announces, "Ici Noumea," and signs off with Marseillaise. 44 rue de l'Alma. Tues, Sat, 2:30-3:30 am.
 HJ3CAX Bogota, Colombia. 750 w. Relays HJ3CAZ, La Vox de Colombia, Aptdo. 772. (Heard on 6012 kcs). (Sun, Noon-1:30 pm; 6-11 pm; Other days 10:30 am-2 pm; 5:30-11:30 pm).
 TGWB Guatemala City, Guat. 1 kw. Sun, 10:30 am-5:15 pm; 7 pm-midnight. Weekdays, 7:45-9 am; 12:45-3:45 pm; 7:30 pm-12:15 pm. See TGWA.
 6130 CHNX Halifax, N. S. 500 w. Sat, 8 am-11:30 pm; Sun, noon-11:15 pm; other days, 7 am-11:15 pm. Maritime Broadcasting Co., Lord Nelson Hotel.
 COCD Havana, Cuba. 250 w. Relays CMCD. "La Vox del Aire," S. A., Sr. J. Benitez, Aptdo. 2294.
 LKJ Oslo, Norway, 5 kw. See "Oslo."
 6132 VP3BG Georgetown, British Guiana. Brit. Guiana United Brcdstg. Co., Box 11. (10:30 am-11:30 am; 4-8 pm).
 XEXA Mexico City, D. F. 100 w. Depto. de Publicidad y Propaganda, Sr. Jose Rivera.
 6137 OR7AA Lourenco Marques, Port. East Africa. Radio Club de Mocambique, Caixa Postal 594. Sun, 5-7 am; 10 am-2 pm; Weekdays, midnight-1 am; 4:30-6:30 am; 9:30-11 am; noon-4 pm.

RADEX

- 6140 KZRF Manila, Philippines. "Radio Filipinas," Insular Life Bldg. (5:30-11 pm).
 13 WPIT Pittsburgh, Pa. 40 kw. See "WPIT." (11 am-noon).
 6145 HJ4DAE Medellin, Colombia. 700 w. "La Vox de la Antioquia."
 6147 1/2 ZRD Durban, Union of So. Africa. 200 w. See "Johannesburg." Sat, 3:30-7:30 am; 9-11:15 am; Sun, 5:30-7 am; 9-11:16 am; Weekdays, 11:45 pm-12:50 am.
 6150 CJRO Winnipeg, Man. 2 kw. James Richardson & Sons, Ltd., 157 Royal Alexandra Hotel.
 TIEMC San Jose, C. Rica. 250 w. "Radio El Mundo," Rafael Hinc Ch.
 6165 TILS San Jose, Costa Rica. 2 kw. "Para Ti," Luis Saenz Mata, Aptdo. 3.
 Bern, Switzerland. 25 kw. See "Bern."
 6170 HI4V San Francisco de Macoris, D. R. 100 w. Luis R. Betances R.
 6174 XEXA Mexico City, D. F. Relays XEXM, Departamento Autonomo de Prensa Publicidad (DAPP). Sign off, "March of the Toys." 8:30 am-midnight.
 6185 HI1A Santiago de los Caballeros, D. R. 75 w. "La Vox del Vaque," Rafael Western. (Weekdays, 8-10 pm).
 6190 HVJ Vatican City. 15 kw. Mon, Thur, Sat, 2-3:30 pm; Tues, Fri, 2-3 pm; Wed, 2:2-30 pm; 3-3:30 pm. See HVJ.
 KGEI San Francisco, Calif. 20 kw. See "KGEI."
 TG2 Guatemala City, Guat. 200 w. "Radio Morse," Director General of Electrical Communications. (Sat, 7:30-9 am; 6 pm-1 am; Sun, 7:30-11 am; 3-8 pm; Other days, 7:30-9 am; 6-11 pm).
 WGEO Schenectady, N. Y. 40 kw. See "WGEO."
 6200 COKG Athlone, Ireland. Santiago de Cuba. 1200 w. Relays CMKG. "Ask For Bacardi." Sres. Grau y Caminero, Aptdo. 137. Daily exc. Sat, 9 am-11 pm.
 XEXS Mexico City, D. F. 100 w. Departamento de Salubridad Publica.
 ZGE Kuala Lumpur, F.M.S. Institute of Medical Research. Sun, Tue, Fri, 6:40-8:40 am. Saigon, Fr Indo-China. "Radio Boy-Landry." Etablissements Boy-Landry. 5:30-9 am.
 6235 HRD2 La Ceiba, Honduras. 250 w. 8-11 pm. "La Vox de Atlantida."
 6243 HI1N Trujillo, D. R. 700 w. Weekdays, noon-2:30 pm; 5:45-10 pm. Sign off national anthem. Relays HIN. J. M. Bonetti Burgos.
 6280 HI1G Trujillo, D. R. 200 w. Relays HIG. Andres Cordero Puello.
 6282 COHB Sancti-Spiritus, Cuba 150 w. Relays CMHB, V. E. Wiesse y O. Ramirez, Calle Independencia 33. 9-11 pm.
 6295 OAX4G Lima, Peru. 400 w. Relays OAX4B, "Radio Grellaud," Roberto Grellaud y Cia., Sen Abenay 915-23 (7-9:30 pm). Villarrica, Paraguay, 1 kw. "Radio Cultura."
 6312 ZP14 Trujillo, D. R. 100 w. Relays HIZ. Frank Hutton.
 6330 COCW Havana, Cuba. 7 am-midnight. Relays CMW. "La Vox de las Antillas," Apartado 130.
 6335 OAX1A Chiclayo, Peru. 200 w. "La Vox de Chiclayo," Elias Aguirre 171, Casilla 9. Sign off, "Good Night Waltz." (Sat, 10 pm-midnight; Other days, 8-11 pm).
 6340 HI1X Trujillo, D. R. 900 w. Relays HIX. J. R. Saladin. (Tues, Fri, 8-10 pm).
 6351 HRP1 San Pedro Sula, Honduras. 100 w. 12:30 pm-12:30 am. "El Eco de Honduras."
 6355 IAC Rome, Italy. See "Rome." (3-3:35 pm).
 6380 ZIZ Basseterre, St. Kitts. (Reported on 6384). Daily 4-5 pm; Wed, 7-7:30 pm.
 6383 HI9B Santiago, D. R. 200 w. Jacinto L. Sanchez, Aptdo. 95.
 6420 HI1S Santiago de los Caballeros, D. R. 200 w. "La Vox de la Hispaniola." Generoso Sarnelli. (6-11 pm).
 TGQA Quezaltenango, Guat. 200 w. Relays TGG. "La Vox de Quezaltenango," Director General of Electrical Communications. (Sat, 10 pm-1 am; Sun, 1-3 pm; Other days, 9-11 pm).
 6425 W2XGB Hicksville, N. Y. 10 kw. Press Wireless, Inc.
 6480 HI1L Santiago, D. R. 100 w. "Emisora Nacional," Maria J. Tavaraz, Calle Pres. Trujillo 97. (6:30-8 am; 5:30-7 pm; 8-9:45 pm).
 6480 TGWB Guatemala City, Guat. 1 kw. (Reported on 6495). See TGWA.
 6500 HIL Trujillo, D. R. 60 w. J. C. Teixido, Aptdo. 623.
 6550 TIRCC San Jose, C. Rica. 500 w. Accion Catolica, Prbo. Carlos Borge, Aptdo. 1064.
 6565 HI5P Puerto Plata, D. R. 30 w. J. M. Modesto.
 6590 COCU Havana, Cuba. Jorge Garcia Serrra, Estrada a Pima 25, Vibora. (Sun, 6:55 am-midnight; Weekdays, 6:55 am-1 pm).
 6600 HI6P Trujillo, D. R. 100 w. Emilio Garden, Jr.
 6622 PRADO Rio Bamba, Ecuador. Fabrica de Tejidos de "El Prado." Aptdo. 98. (Thur, 9-11 pm).
 6630 HIT Trujillo, D. R. 100 w. "La Vox de la RCA-Victor," F. A. Saubata, Aptdo. 1105. Interval, bells; sign off, na-

tional anthem. (Sun, 10:45 pm-12:45 am; Weekdays, 5:45-8:45 pm).

6638 HC2RL Guayaquil, Ecuador. 200 w. "Quinta Piedad," Dr. Roberto Levi, Casilla 759. Interval, "Hello, America," sign off, national anthem. (Sun, 5:30-7:30 pm; Tues, 9-11 pm).

6660 HI6Y Trujillo, D. R. 30 w. Alfonso Cuervo.

6675 HBQ Geneva, Switzerland. "Radio Nations." (Sun, 1:45-2:45 pm).

6690 VK8SK Broken Hill, Australia. At 2:30 am. Australian Aerial Medical Service.

6700 TIEP San Jose, C. Rica. 1 kw. "La Voz del Tropico." Eduardo Pinto H., Aptdo. 257. (4-11 pm).

6710 PMH Bandoeng, Java, N.E.I. 1500 w.

6780 HIIH San Pedro de Macoris, D. R. 250 w. "La Voz de Higuanamo," Domingo Dominguez.

6800 PZH Paramaribo, Surinam.

6960 Z2B Wellington, New Zealand. 200 w.

7000 to 7300 Amateurs.

7006 FETI Valladolid, Spain. 7:30 am-5:30 pm.

7010 XPSA Kwei-yang, China. 10 kw. (Reported on 6970 and 7140). (5:30-10:55 am).

7088 PI1J Dordrecht, Netherlands. 50 w. Technical College. (Sat, 10 am-12:50 pm).

7090 FO8AA Papeete, Tahiti. Radio Club Oceanien. (Tues, Fri, 11 pm-midnight).

7100 EA9BJ Spanish Morocco.

7177 CR6AA Lobito, Angola. (Wed, Sat, 2:45-4:30 pm).

7200 EA8AE Las Palmas, Canaries. (Reported on 7150).

7220 12RO11 Rome, Italy. 100 kw. See "2RO."

7222 YV9AB In Venezuela on Gulana-Brazil Border. Expedicion Tecnico de Minería y Geología, Ministerio de Fomento, Caracas.

7260 FET8 Spanish Morocco. (5-7 pm).

7270 EA8AS Tenerife, Canaries. Relays EAJ43. (Wed, 4-5 pm).

7300 VIG Port Moresby, Papua. Relays 4 pm. A call sign, not time.

7310 Madrid, Spain. "Radio Nacional."

7380 XECR Mexico City, D. F. 20 kw. Secretaria de Relaciones Exteriores. (Sun, 6-8 pm).

7435 FG8AH Pointe-a-Pitre, Guadeloupe. "Radio Guadeloupe," Box 125. (6-7:30 pm).

7500 EAJ43 Santa Cruz de Tenerife, Canaries. Relays "Radio Nacional de Burgos." (8-9 am).

7510 JVP Tokyo, Japan. 50 kw. See "Tokyo" at end of list.

7797 HBP Geneva, Switzerland. "Radio Nations." (Sat, 5:30-6:30 pm).

7894 YSD San Salvador. Relays YSS, "Alma Cuscatleca." Director General de Telegrafos, Telefonos, y Radio Nacionales.

RADEX

8650 HJ4DAU Medellin, Colombia. 250 w. Universidad Antioquia.

8664 COJK Camaguey, Cuba. 1 kw. 11:30 am-12:30 pm; 8-10 pm. (Reported on 8660 and 8680). Relays CMJK, "Radio Zenith," Jones Castillon y Cie., Finlay #3.

8700 COCO Havana, Cuba. 1 kw. Relays CMCK, Luis Casas Romero, Aptdo 98.

8820 HCJB Quito, Ecuador. 1 kw. "La Voz de los Andes," Clarence.

8830 COCQ Havana, Cuba. 1 kw. Relays CMQ, "De La RCA Victor," Calle 25 No. 225. (Reported on 8850).

9030 COBZ Havana, Cuba. 250 w. Relays CMBZ, "Radio Salas," Aptdo. 866. Opens, nightingales and canaries; interval, 4 chimes; closes, national anthem. (6:45 am-1 am).

9100 COBX Havana, Cuba. Relays CMBX, Alberto Alvarez, San Miguel 194.

9125 HAT4 Budapest, Hungary. 20 kw. Sun, Wed, 7-8 pm; Sat, 6-7 pm. Radiolabor, Kiserleti Allomasa, Gyalui-ut 22, Budapest IX.

9125 HC2CW Guayaquil, Ecuador. "Ondas del Pacifico," Aptdo 1166.

9163 HC1GQ Quito, Ecuador. "Radiodifusora Nariz del Diabolo." Sign off, "Blue Danube Waltz." Guayaquil & Quito R. R. Co., Aptdo. 159. (8:30-11 pm).

9234 Bucuresti, Romania. 2 kw. "Radio Experimental." Societatea Romana de Radiodifuziune, Str. Gral. Berthelot 60.

9290 HI2G Trujillo, D. R. 200 w. Relays HIG. Andres Cordero Puello.

9295 XTC Shanghai, China. (8-9 am).

9350 HS8PJ Bangkok, Thailand (formerly "Siam"). Post and Telegraph Dept.

.... Fort de France, Martinique. "Radio Fort de France."

9363 COBC Havana, Cuba. Relays CMBC, "El Progreso Cubano," Aptdo 132. (6:55 am-midnight). (Reported on 10000).

9400 Saigon, Fr. Indo-China. 10 w. "Radio Michel-Robert." (Weekdays, 7-8:30 am).

9415 PJC2 Willemstad, Curacao. "Radio Curom," Emmastad.

9415 PLV Bandoeng, Java, N.E.I. 80 kw. Governments Radio-Dienst.

9437 COCH Havana, Cuba. 5 kw. Cadena Azul de Radio, Prado 63. (Sun, 8 am-10 pm; other days, 8 am-midnight).

9465 TAP Ankara, Turkey. 20 kw. 11:30 am-5 pm. See "Ankara."

9500 KZIB Manila, P. I. 1 Beck, Inc. (4-10 am; 6 pm-12:30 am).

9500 OFD Lahti, Finland. 1 kw. See "Lahti." (Weekdays, 5-6:30 am; 10 am-5 pm.)

RADEX

9500 PRF5 Rio de Janeiro, D. F., Brazil. 12 kw. "A Voz do Brasil." Cia. Radio Internacional do Brasil, Marapicu, D. F. (4:45-5:45 pm).

XEWX Mexico City, D. F. 10 kw. 8:55 am-midnight. "La Voz de la America Latina desde Mexico." Aptdo. 2516. Relays XEW. Cadena Radio-difusora Mexicana.

XGOY Lungtso, China.

9503 XEXA Mexico City, D. F. 100 w. (until 1 am).

9510 CXA8 Colonia, Uruguay. 2500 w. Relays, L.R. "Real de San Carlos." (6 am-10 pm).

9510 GSB London, Gt. Britain. 20 kw. "B for Broadcasting." See "London." (1:30-3:50 am; 6:20-9:15 pm; 9:40-11:30 pm).

HS8PJ Bangkok, Thailand (formerly "Siam"). Opening and interval signals, 3 ascending chimes. Post and Telegraph Dept., Col. Phra Aram.

VK3ME Melbourne, Australia. 5 kw. Weekdays, 4-7 am. Amalgamated Wireless, (A/sia), Ltd., 167 King St.

9520 OZF Copenhagen, Denmark. 6 kw. 2-6 pm; 10-11 pm. Statradiofonien, Heibergsgade 7.

XEDQ Guadalajara, Jal. 100 w. "Hablando a los Continentes desde Guadalajara." Relays XED, Aptdo. 197. Interval, 4 chimes; sign off, "Jarabe Tapatio."

9523 ZRG Pretoria, Union of So. Africa. 5 kw. See "Johannesburg." (Sat, 5-7 am; 9:30 am-4:45 pm; 11:45 pm-12:50 am; Sun, 5:30-7 am; 8:30 am-noon; 12:15-3:15 pm; Other days, 5-7 am; 9:30 am-3:30 pm; 11:45 pm-12:50 am).

9524 Luxembourg. "Radio Luxembourg." (11 am-1 pm).

9525 ZBW3 Hong Kong. 2500 w. Hong Kong Broadcasting Committee, Box 200.

9530 KGEI San Francisco, Calif. 20 kw. See "KGEI." (3-9 am).

9530 LKC Oslo, Norway. 5 kw. See "Oslo."

VUC2 Calcutta, India. 10 kw. 2:30-4:30 am. All-India Radio.

WGEO Schenectady, N. Y. 40 kw. See "WGEO."

9535 JZI Tokyo, Japan. 20 kw. See "Tokyo." (4:40-5:30 pm).

.... Bern, Switzerland. 25 kw. See "Bern."

9536 VPD2 Suva, Fiji. 2 kw. Amalgamated Wireless, (A/sia), Ltd. (5:30-7 am).

9540 DJN Berlin, Germany. 50 kw. (12:05-2:30 am; 4:50-10:50 pm). See "Berlin" at end of list.

9544 HH2S Port-au-Prince, Haiti. Societe Haitienne de Radiodiffusion, Boite Postal 103.

9550 HVJ Vatican City. 15 kw. Wed, 2:30-3 pm; Sun, 5-3:30 am. See "HVJ."

TPB11 Paris, France. 25 kw. 11:15 pm-6 pm. See "Paris" at end of list.

VUB2 Bombay, India. 10 kw. 12:30-4 am; 5-7:30 am; 10-11 pm.

WGEO All India Radio. Schenectady, N. Y. 25 kw. See "WGEO."

9560 DJA Berlin, Germany. 50 kw. See "Berlin." (6:30-10:30 pm).

9562 OAX4T Lima, Peru. 10 kw. "Radio Nacional." Relays OAX4A. (Reported on 9560). Peruvian Gov't, Av. Petit Thouars 447. (7-8 am; 11:30 am-1:30 pm).

9570 KZRM Manila, Philippines. 5 kw. "Radio Manila," Far Eastern Bldg. (4-10:30 am; 4:30-7 pm; 11 pm-12:30 am).

9570 WBOS Springfield, Mass. 10 kw. Relays NBC-WBZ-WBZA. Westinghouse Electric & Mfg. Co.

WPIT Pittsburgh, Pa. 40 kw. See "WPIT."

9580 GSC London, Gt. Britain. 20 kw. "C for Corporation." See "London." (1:30-4 pm; 4:20-6 pm; 6:25-9:20 pm; 9:40-11:30 pm).

VLR Melbourne, Vic., Australia. 2000 w. 3:15-9:45 am. See VLR.

9585 KZEH Manila, Philippines. Box 119.

9590 HP5J Panama City, Panama. 1 kw. (Reported on 9610). 6:30-11 pm. "La Voz de Panama." Apartado 867.

PCJ Huizen, Netherlands. 60 kw. See "Hilversum." (Sun, 1:40-3 pm; 7:15-9:50 pm; Tu, 1:45-3:30 pm; 7-10:15 pm; W, 7:15-8:40 pm; F, 8-9 pm).

VK2ME Sydney, Australia. 20 kw. Sun, 1-3 am; 5-11 am. Signatures, laughing notes of kookaburra. Amalgamated Wireless, (A/sia), Ltd., 47 York St. (Sun, midn't-2 am; 4:30-8:30 am; 11:30 am-1:30 pm).

VK6ME Perth, Australia. 5 kw. Weekdays, 6-8 am. Amalgamated Wireless, (A/sia), Ltd.

VUD2 Delhi, India. 10 kw. 2-4:15 am; 8 am-1 pm; 10 pm-midnight. All-India Radio.

VUD3 Delhi, India. 5 kw. 8 am-1 pm. All-India Radio.

9590 WCAB Philadelphia, Pa. 10 kw. See "WCAB." (M, Th, Sat, 6:30 pm-2 am; Wed, 9 pm-2 am).

WLWO Cincinnati, Ohio. 10 kw. See "WLWO."

9595 HBL Geneva, Switzerland. 20 kw. "Radio Nations."

9600 CB960 Santiago de Chile. (6 pm).

9600 ZEYU Mexico City, D. F. (9-11 pm).

9606 ZRL Capetown, Union of So. Africa. 5 kw. See "Johannesburg." (Sun, 3:30-4:30 am (or 4-5 am); 5:30-7 am; 9-11:45 am; noon-3 pm; Weekdays, 3:20-7:20 am; 9-11:45 am; noon-3 pm; 11:45 pm-12:50 pm).

9615 TIPG San Jose, C. Rica. 2 kw. "La Voz de la Victor," Claudia Martinez. (Reported on 9610). (7 am-11:30 pm; English hour Wed, Sat, 9-10 pm).

9616 HJ1ABP Cartagena, Colombia. 608 w. 4:30-10:30 pm. "Radio Cartagena," Aptado 37.

9620 HAD Budapest, Hungary. (6-9 pm).

9630 HJ7GAD Bucaramanga, Colombia. 650 w. Relays HJ7GAE. "Radio Bucaramanga."

9630 I2RO3 Rome, Italy. 100 kw. See "Rome." (12:07-12:56 pm; 1:01-2:55 pm; 5:30-9 pm).

9645 HH3W Port-au-Prince, Haiti. 30 w. 1-2 and 7-8 pm. C Ricardo Widmaier, Box A-117.

9645 JLT2 Tokyo, Japan. See "Tokyo." (8-8:30 pm).

9650 IABA Addis Ababa, Ethiopia. 1 kw. E. I. A. A. (Sun, 3:30-3:55 am).

9650 WCBX New York, N. Y. 10 kw. See "WCBX." (10:30-11:30 pm).

9660 CR6AA Lobito, Angola. HVJ Vatican City. 15 kw. Wed, 2:30-3 pm; Sun, 5-5:30 am. See HVJ.

9670 I2RO9 Rome, Italy. 100 kw. See "Rome." (12:40-5:30 pm; 6-6:30 pm).

675 DJX Berlin, Germany. 10:35 am-4:25 pm. See "Berlin" at end of list.

9685 TGWA Guatemala City, Guat. 10 kw. See "TGWA." (Sun, 7 pm-midnight; Weekdays, 7:30 pm-12:15 am).

9690 HMF Baghdad, Iraq. Casr-El-Lahoor Brdcstg. Station. (3 pm).

9692 TI4NRH Heredia, Costa Rica. 750 w. Sun, 7-8 am; Tu, Th, Sat, 9-10 pm. Amando Cespedes Marin, Apartado 40.

9700 "Radio Martinique," Fort de France, Martinique 1500 w. 1:15-2:45 pm; 6-10 pm. Sign off with Marseillaise. Poste Seri. Boite 136.

9730 CB970 Valparaiso, Chile. (Reported on 9710). 6:30-11 pm.

9735 CSW7 Lisbon, Portugal. (8 pm).

9755 ZRO Durban, Union of So. Africa. 200 w. See "Johannesburg." (Sat, 3:30-7:30 am; 9-11:15 am; 11:20 am-4 pm; Sun, 5:30-7 am; 9-11:15 am; 11:20 am-3:20 pm; Other days, 3:30-7:30 am; 9-11:15 am; 11:20 am-3:45 pm).

9835 IRF Rome, Italy. 20 kw. See "Rome." (5:20-5:40 am; noon-12:25 pm; 12:40-1 pm; 1:50-2:30 pm; 6-9 pm).

9860 EAO Madrid, Spain.

9925 JDY Dairen, Kwantung. 10 kw. 7-8 am. Manchuria Telephone and Telegraph Co.

9985 COCM Havana, Cuba. 1 kw. Relays CMCN, "Trans Radio Columbia," 23 No. 1113, Vedado.

RADEX

10220 PSH Rio de Janeiro, Brazil. 12 kw. Relays PRF4; signs off with Brazilian National Hymn. Cia. Radio Internacional do Brasil, Caixa Postal 709. (Weekdays, 6-7 pm; M, 8-8:30 pm; F, 7-7:30 pm).

10330 ORK Brussels, Belgium. 11 kw. 1:30-3 pm.

10660 JVN Tokyo, Japan.

10740 JVM Tokyo, Japan.

11402 HBO Geneva, Switzerland. "Radio Nations," Sun, 7-7:45 pm.

11660 JVL Tokyo, Japan.

11673 IQY Rome, Italy. See "Rome." (5:20-5:40 am; 12:07-12:56 pm; 1:50-2:30 pm).

11700 HP5A Panama City, 300 w. Sun, 9 am-1 pm; 6-10 pm. Weekdays, 11:45 am-1 pm; 6-10 pm. "Radio Teatro Estrella de Panama." Sign off with "Anvil Chorus." Radio Teatro, Aptdo. 954.

11705 JLG3 Tokyo, Japan. See "Tokyo." (8-8:30 pm).

11705 SBP Stockholm, Sweden. 500 w. Sun, 1:15-4:15 pm; Wed, Sat, 8-9 pm; Daily 1-4:15 pm. Telegrafverket Tjanstebrev 5.

11718 CR7BH Lourenco Marques, Port. E. Agric. 200 w. Radio Club de Mocambique, Caixa 594. (Sun, 5-7 am; 10 am-12 pm; Weekdays, midn't-1 am; 4:30-6:30 am; 9:30-11 am; noon-4 pm).

11718 TPB6 Paris, France. 7-9:15 pm. See "Paris."

TPA4 Paris, France. 7-9:15 pm; 9:30 pm-midnight. See "Paris."

11720 CJRX Winnipeg, Man. 2 kw. James Richardson & Sons, 157 Royal Alexandra Hotel.

11721 ZP14 illarrica, Paraguay. "Radio Cultura." (7:07-9:07 pm).

11730 PHI Huizen Netherlands. 23.6 kw. See Hilversum.

WSLA Boston, Mass. 20 kw. See "WSLA."

11730 WSLR Boston, Mass. 20 kw. See "WSLA."

11735 LKQ Oslo, Norway. 5 kw. See "Oslo." (11 am-2 pm).

11740 HVJ Vatican City. 15 kw. Tues, 8:30-9 am. See HVJ.

11750 GSD London, Gt. Britain. 20 kw. "D For Daventry." See "London." (1:30-3:50 am; 12:35-4 pm; 4:20-6 pm; 6:20-9:15 pm; 9:40-11:30 pm).

11753 COCX Havana, Cuba. Relays CMX, "Casa Lavin," Box 32. Sun, 6-9 pm; weekdays, 8 am-midnight).

11760 TGWA Guatemala City, Guat. 10 kw. Sun, 12:45-5:15 pm; Weekdays, 12:45-1:45 pm. See TGWA.

RADEX

11770 DJD Berlin, Germany. 50 kw. 11:30 am-4:30 pm; 4:50-10:50 pm. See "Berlin."

11770 MTCY Hsingking, Manchukuo. Strasbourg. (10-11:30 pm).

11776 ... "Radio Luxembourg." Cie. Luxembourgaise de Radiodiffusion, (1 hour daily, same hour for three days then advanced an hour for next 3-day period).

11780 HP5G Panama City, Pan. 750 w. "Ron Dalley." Opens, closes, with Prelude from "Traviata." Salvador Graziani, Box 1121. (6-10 pm).

11780 Saigon, Fr. Indo-China. "Radio Saigon." (6 am).

11790 WSLA Boston, Mass. 20 kw. See "WSLA."

11800 JZJ Tokyo, Japan. 50 kw. See "Tokyo." (7-9:30 am; 2:30-4 pm).

11801 DJZ Vienna, Germany. 50 kw. See "Berlin." (4:50-10:50 pm).

11810 I2RO4 Rome, Italy. 100 kw. See "Rome." (4:30-4:55 am; 5-7:25 am; 7:30-8:45 am; 10 am-3 pm; 6-9 pm).

11820 GSN London, Gt. Britain.

11830 WCBX New York, N. Y. 10 kw. See "WCBX." (Sun, 3-6 pm; Daily exc. Sun, 4-6 pm; Daily 6:30-10 pm).

11840 KZRM Manila, Philippines. Erlanger & Gallinger, Inc., David St.

11840 OLR4A Prague, Bohemia. 35 kw. "Radio Podebrady." (M, Tu, W, Th, F, 8-10:30 am; Sun, 7:15-9:55 pm).

11850 HAD Budapest, Hungary. (2-6 pm).

11870 VUM2 Madras, India 10 kw. 4-4:30 am. All-India Radio.

11870 WPIT Pittsburgh, Pa. 40 kw. See "WPIT." (2-11 pm).

11870 ... Strasbourg, France. "Radio Melbourne, Australia. 1-3 am. See VLR."

11885 TPA3 Paris, France. 25 kw. 2-5 am; 11:15 am-6 pm. See "Paris."

18 TPB7 Paris, France. 25 kw. 9:30 pm-midnight. See "Paris."

11900 I2RO13 Rome, Italy. 100 kw. See 2RO.

11900 XGOY Chungking, China. Central Brdcstg. Station. (5:30-10:30 am; 11-11:30 am; 4-4:30 pm).

11900 XMHA Shanghai, China. 445 Racecourse Road. (Reported on 11840 and 11857). (6 am).

11900 Hanoi, Fr. Indo-China. "Radio Hanoi II." 20 rue de la Pepiniere. (Sat, 8:30-10:30 pm; Sun, 12:01-9:30 am; Other days, 12:01-2:30 am; 6-9:30 am).

11930 PPH Rio de Janeiro, Brazil. (5:30 am).

11960 HI2X Trujillo, D. R. 900 w. Relays HIX. J. R. Saladin, Gobierno Dominicano. (Sun, 7:40-10:40 am).

12230 COCE Havana, Cuba. "La Voz del Transporte." Prado 18. (8 am-midn't).

12235 TFJ Reykjavik, Iceland. 7500 w. Sun, 1:45-2:30 pm Icelandic State Broadcasting Service, Box 547.

12460 HCJB Quito, Ecuador. (Reported on 12450). Clarence W. Jones, Casilla 691. (Daily exc. Mon, 10-11 pm).

13900 YN3DG Leon, Nicaragua. (Verifies for 10c). (Sat, Sun, 10 pm).

14125 YV9AB In Venezuela on Guiana-Brazil Border. Expedition de la Gran Sabana, Ministerio de Fomento, Caracas.

14795 IQA Rome, Italy. See "Rome." (4:30-4:55 am).

14935 PSE Rio de Janeiro, Brazil. W, 4-4:10 pm; Th, Sat, 3-3:30 pm).

15110 DJL Berlin, Germany. 50 kw. 12:05-2 am; 8-9 am; 10:35 am-4:25 pm. See "Berlin."

15120 HVJ Vatican City. 15 kw. Tues, 10:30-11 am; Sun, 1-1:30 pm. See HVJ.

15130 TPB11 Paris, France. 25 kw. 2-5 am. See "Paris."

WSLA Boston, Mass. 20 kw. See "WSLA."

15130 WSLR Boston, Mass. 20 kw. See "WSLA."

15140 GSF London, Gt. Britain. 15 kw. "F For Fortune." See "London." (5:45-8:50 am; 9 am-noon; 4:20-6 pm; 6:20-9:15 pm).

15160 JZK Tokyo, Japan. 50 kw. See "Tokyo." (Midnight-1:30 am; 7-9:30 am; 2:30-4 pm).

VUD3 Delhi, India. 5 kw. 2-4:15 am; 10 pm-midnight. All-India Radio.

XEWW Mexico City, D. F. 10 kw. "La Voz de la America Latina desde Mexico," Aptdo. 2516.

15170 LKV Oslo, Norway. 5 kw. See Oslo.

15170 TGWA Guatemala City, Guat. 10 kw. See "TGWA." (Sun, 12:01-1 am; 10:30 am-5:15 pm; Weekdays, 7:45-9 am; 12:45-3:45 pm).

15180 GSO London, Gt. Britain. "O For Ocean." See "London." (4:20-6 pm; 6:25-9:20 pm).

15195 TAQ Ankara, Turkey. 20 kw. Turkish Brdcstg. System. Daily 5:30-7 am.

15200 DJB Berlin, Germany. 8 kw. See "Berlin." (5-11 am; 4:50-10:50 pm; Sun, 11:10 am-12:25 pm).

15210 WPIT Pittsburgh, Pa. 40 kw. See "WPIT." (9 am-2 pm).

15220 PCJ2 Hilversum, Netherlands. 60 kw. See "Hilversum." (Sun, 7:40-9:05 am; M, Th, 7:40-9 am; Tu, 1-2:30 am; W, 9:30-11:30 am; Tu, W, F, Sat, 7:40-8:45 am).

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

RADEX

- 21565 DJJ Berlin, Germany. 6-7:50 am. See "Berlin."
- 21570 WCBX New York, N. Y. 10 kw. See "WCBX." (8 am-12:30 pm).
- 21680 HAD Budapest, Hungary. (11 am-2 pm).

Addresses

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

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

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

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

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

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

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

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

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

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

RADEX

- KGEI—Transmitter at Treasure Island. General Elec. Co., 235 Montgomery St., San Francisco, Calif.
- TGWA—Radiodifusora Nacional, "La Voz de Guatemala." Relay TGW. Return postage is not necessary for verifications.
- VLK—Transmitter at Lyndhurst. Australian Broadcasting Commission (Victorian Division), P. O. Box 1686, GPO, Melbourne, Vic., Australia.
- WCAI—Trans. at Newton Square. Relays GBS-WCAU. WCAU Brdestg. Co., 1622 Chestnut St., Philadelphia, Pa.
- WCBI—"The Voice of Labor." Transmitter, York Township. Relays NBC-WCFL. Sign off in English, French, German, Norwegian, Polish, Russian and Spanish. Chicago Federation of Labor, 666 Lake Shore Drive, Chicago, Ill.
- WCBX—Transmitter at Wayne Twp., N. J. Relays CBS-WABC. Sign off, "Star Spangled Banner." Columbia Broadcasting Sys., 485 Madison Ave., New York City.
- WGEA—Transmitter at South Schenectady. Relays NBC-WGY. Programs commence with discharge of man-made lightening. General Elec. Co., 1 River Road.
- WLWO—Transmitter at Mason. Relays NBC-WLW. Crosley Corp., 1320 Arlington St., Cincinnati, Ohio.
- WNBI—Transmitter at Bound Brook, N. J. Relays NBC-WJZ. Sign off with "Star Spangled Banner." NBC, Inc., 30 Rockefeller Plaza, New York, N. Y.
- WPIT—Transmitter at Saxonburg. Relays NBC-KDKA. Westinghouse Electric & Mfg. Co., Grant Bldg., Pittsburgh, Pa.
- WSLA—"Dedicated to Enlightenment." World Wide Broadcasting Corp., Educational Director, University Club, Boston, Mass.



A San Francisco DXer, George Toni-son, tuning his new Hallicrafters receiver. George is one of the most active DX reporters on the west coast.

SHORTWAVES

(Continued from page 35)

Martin W. Sullivan, Lynn, Mass.
H. L. Tomkinson, Mt. Holly, N. J.
Murray Vaughan, St. Matins, N. B.
Pat Webb, San Antonio, Texas
Bill Wells, Ontario, Canada
John H. Wheeler, Mystic, Conn.



G. R. Jewell, Jr., formerly of Alabama but now of San Diego, Calif. He says so many of his pen pals have asked to see his picture that he has to have it printed in Radex to satisfy them all. Has been interested in radio since the crystal days.

XERB heard testing around 8 A.M. but have been unable to hear them at night even after KMOX signs off. They stated they were located at "The beautiful Rosarito Beach Hotel". (Pat Webb, San Antonio, Texas and Farnk Susoreny, R1421, E. Chicago, Ind.)

CMCM's card is a beauty. It shows a waterfront view of Havana and an inset photo of Cuba's capital building. (Allen G. Verrill, Brockton, Mass.)

CMCY sends a post card view of a tobacco plantation. CMBZ beard on both 940 and 1010 kcs. (C. R. Bendes, Pittsburgh, Pa.)

CMBZ is now 5000 watts on 1010 kcs. ... CMBQ is on 1150 kcs. (Wm. Cunningham, Hollywood, Calif.)

CMAB with 200 watts has been re-installed in Pinar del Rio. It belongs to Martine Rodriguez and uses 1240 kcs. ... CMBG will increase from 200-1500 watts ... CMAN is a 1000 watt transmitter owned by Compania Radio Havana and is testing. (Carlos Ramirez G., Havana, Cuba.)

CMBH on 1600 kcs. with 5 kw. sign off at 11 p.m. and are owned by A. Alvarez, San Miguel 570. Verify promptly. (Franis T. Coradetti, R884, Narbeth, Pa.)

The WORLD'S Radio Stations

(Continued From March-April Issue)

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

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

8600	HC1EC	B	....	Quito, Ecuador.
	PHF4	C	....	Panama City, Panama
8620	WVD	T	....	Seattle, Wash. Alaskan Telephone Co., 517 Federal Office Bldg.
8630	CMA5	C	1000	Havana, Cuba. Cuba Transatlantic Radio Corp., Obispo y Aguiar
	VJI	SEM	....	Cloncurry, Qsld., Australia. Australian Airways Medical Service.
	VOWQ	FA	....	Northwest River, Labrador. Newfoundland Skyways, Ltd.
8650	HJ4DAU	B	250	Medellin, Colombia.
8653	W8XUK	GE	10	Portable. W. Va. University Dept. of Physics.
	W8XUL	GE	10	Portable. Same as above.
8655	KDKC	..	....	Los Angeles, Calif. James Wallington, CBS, Columbia Sq.
	KHRH	RB	100	NC-19904. Howard R. Hughes, NYC.
	K5FM	RB	....	New York City. NBC, Inc.
	R6XAK	GE	1500	Kaena Point, Oahu, T. H. Globe Wireless, Ltd
	WCBN	RB	....	New York City. CBS, Inc.
	WNBM	RB	....	New York City. NBC, Inc.
	W2XYR	GE	125	Wilmington, N. Y. Whiteface Mountain Meteorological Observatory.
	W4XID	E1	50	W. Palm Beach, Fla. Gray Radio Co.
	W6XQW	GE	1000	Palo Alto, Calif. Stanford University
	W8XT	GE	5000	Portable. Press Wireless, Ltd.
	W7XBA	E	15	Portable. Northern Radio Co.
	W7XEY	E1	60	Seattle, Wash. Radio Labs., Inc.
	W7KEZ	E1	60	Seattle, Wash. Radio Labs., Inc.
	W9XEI	GE	400	Lake Bluff, Ill. Thorne Donnelly
	W10XDA	E1	100	"Efie M. Morrissey." Donald Elias Clark, New York City.
	W10XJJ	GE	25	Portable. Harvey Radio Labs., Inc.
8663	COJK	B	1000	Camaguey, Cuba
8680	GBC	T	....	Rugby, Gt. Britain
8690	VK8US	SEM	....	Alice Springs, Australia. Australian Airways Medical Service.
	VWZ	T	10000	Kirkee, Poona India. Indian Radio & Cable Communications Co., Poona 6.
8700	COCO	B	1000	Havana, Cuba
8710	KBB	C	....	Manila, Philippines.
8720	CFU	C	....	Annapolis, B. C., Canada. Consolidated Mining & Smelting Co.
	CZ5Y	C	....	Anyox, B. C. Same as CFU
8730	GCI	C	....	Rugby, Gt. Britain
8740	WXV	T	....	Fairbanks, Alaska
8750	VK8UB	SEM	....	Kalgoorlie, W. A., Australia. Australian Airways Medical Service.
8770	ICEJ	S	....	S. S. "Rex." Italian Lines, 1 State St., NYC.
8790	WWMA	G	....	Detroit, Mich. U. S. Immigration Border Patrol.
	WWMB	G	....	Buffalo, N. Y. Same as WWMA
	WWMD	G	....	Derby Line, Vt. Same as WWMA
8798	HKV	..	....	Bogota, Colombia
8810	IBLI	S	....	S. S. "Conte di Savoia." Italian Lines 1. State St., NYC.
8820	HCJB	B	1000	Quito, Ecuador.
	WOGK	S	100	Yacht "Mako." Thorne Donnelly.
8830	COCQ	B	1000	Havana, Cuba
	VK8SI	SEM	....	Wyndham, Australia. Australian Airways Medical Service.
8840	ZMBJ	S	....	I. S. S. "Awatea." Union Steam Ship Co. of New Zealand, Ltd.
8850	VQB4	C	....	Sandakan, British North Borneo
8960	TPZ	T	....	Alger, Algiers. Directeur du Service de la Telegraphie sans fil, 5 rue Froidevaux, Paris.
9010	KEJ	C	....	Bolinas, Calif. R. C. A. Communications Inc.
9020	GCS	T	15000	Rugby, Gt. Britain.

RADEX

9030	COBZ	B	250	Havana, Cuba
9038	VWY	T	....	Kirkee, Poona, India.
9040	TYA2	T	10000	Pontoise, France. Service de la TSF, 5 rue Froidevaux, Paris XIV
9045	VWY	C	....	Kirkee, Poona, India.
9050	NPO	Time	....	Cavite, Philippines.
9080	XTK	..	....	Hankow, China
9100	COBX	B	....	Havana, Cuba.
9120	CPQ5	C	....	LaPaz, Bolivia
	YCP	..	....	Bandoeng, Java, N.E.I.
9125	HAT4	B	20000	Budapest, Hungary
	HC2W	B	....	Guayaquil, Ecuador
9130	CY2Q	C	....	Atlin, B. C., Canada. B. C. Provincial Police.
	CZC	P	....	Bralorne, B. C. Same as CY2Q
	CZ7A	C	....	Alert Bay, B. C. Same as CY2Q
9135	KRTA	E	125	Snow Cruiser, Little America. Byrd Antarctic Expedition
	KRTC	E	125	East Base, Little America. Same as KRTA
	KRTK	E	125	West Base, Little America. Same as KRTA
	W2XGB	GE	10000	Hicksville, N. Y. Press Wireless, Inc.
	W10XJF	E	....	Yacht "Mako." Thorne Donnelly.
9160	CZ4B	T	....	Armstrong, Ont. Ontario Dept. of Lands and Forests.
	CZ5C	T	....	Basswood, Ont. Ontario Dept. of Lands and Forests.
9163	HC1GQ	B	....	Quito, Ecuador
916	YVR	T	....	Maracay, Venezuela
9180	ZSR	T	....	Kliphevel, Union of So. Africa. Overseas Communications of So. Africa, Ltd., Box 962, Capetown.
9234	...	B	2000	Bucaresti, Romania.
9250	Naa	Time	....	Arlington, Va.
9280	GCB	C	15000	Rugby, Gt. Britain
	XGU	..	....	Shanghai, China
9290	H12G	B	200	Trujillo, D. R.
9295	XTC	B	....	Shanghai, China
9300	KNGU	B	50	Managua, Nicaragua
9310	KGJW	A	....	Brownsville, Texas. Pan-American Airways
9330	OAX4J	..	....	Lima, Peru
9350	H88PJ	B	....	Bangkok, Thailand.
	XTR	C	....	Canton, China. Chinese Government Radio Administration
9355	WNO	B	....	Fort de France, Martinique
9363	COBC	..	....	Hialeah, Fla.
9400	...	B	10	Havana, Cuba
9415	PTC2	B	....	Saigon, French Indo-China
	PLV	C	80000	Willemstad, Curacao
9425	NAA	Time	....	Bandoeng, Java, N.E.I.
9437	COCH	B	5000	Arlington, Va.
9445	HC2RA	B	....	Havana, Cuba
9448	WES	C	....	Guayaquil, Ecuador
9460	ICK	..	2000	Rocky Point, N. Y.
	WKJ	C	....	Tripoli
9465	TAP	B	20000	New Brunswick, N. J. R.C.A. Communications
9470	PJC1	B	150	Ankara, Turkey
	WET	C	....	Willemstad, Curacao
9475	EAH	B	....	Rocky o'Pint, N. Y.
9480	KES	C	....	Madrid, Spain
9490	OAX5C	B	....	Bolinas, Calif. RCA Communications
	XTV	B	....	Ica, Peru
9500	CLX	..	250	Canton, China
	KZIB	B	....	Havana, Cuba. Observatorio Nacional, Casa Blanca
	OFD	B	1000	Manila, Philippines
	PRF5	B	12000	Lahti, Finland
	XEWV	B	10000	Rio de Janeiro, Brazil
	XGOY	..	....	Mexico City, D. F.
	XGW	..	....	Lungtso, China
	XEXA	B	100	Shanghai, China
9503	...	B	....	Mexico City, D. F.
	OLR3B	B	35000	Tananarive, Madagascar
9505	JLG2	T	....	Prague, Bohemia
	CSA8	B	2500	Nazaki, Japan. Nippon Hoso Kyokai, Shibaku, Tokyo
9510	GSB	B	20000	Colonla, Uruguay
	H88PJ	B	....	London, Gt. Britain
	VK3ME	B	5000	Bangkok, Thailand
	...	B	....	Melbourne, Vic., Australia
9520	OAX4J	B	500	Hanoi, rFench Indo-China
	...	B	500	Lima, Peru

	OZF	B	6000	Copenhagen, Denmark
	TPB13	B	25000	Paris, France
	XEDQ	B	100	Guadalajara, Jal. Mexico
	YSH	B	....	San Salvador, El Salvador
9523	LYZ2	B	....	Kaunas, Lithuania
	ZRG	B	5000	Pretoria, Union of So. Africa
9524	....	B	....	Luxembourg
9525	JU2	T	....	Nazaki, Japan. Nippon Hoso Kyokai, Shiba-ku, Tokyo
	ZBW3	B	2500	Hong Kong
9530	KGEI	B	20000	San Francisco, Calif.
	VUC2	B	10000	Oslo, Norway
	WGEO	B	40000	Calcutta, India
	LKC	B	5000	Schenectady, N. Y.
	ZHP	B	400	Singapore, Straits Settlements
9535	JZI	B	20000	Nazaki, Japan
	....	B	25000	Bern, Switzerland
9536	VPD2	B	2000	Suva, Fiji
9540	DJN	B	50000	Berlin, Germany
9544	HH2S	B	....	Port-au-Prince, Haiti
9550	HVJ	B	15000	Vatican City
	TPB12	B	25000	Paris, France
	VUBA2	B	10000	Bombay, India
	WGEA	B	25000	Schenectady, N. Y.
	XEFT	B	12	Veracruz, Ver. C., Mexico
9560	DJA	B	50000	Berlin, Germany
	YDB	B	1000	Sourabaya, Java, N.E.I.
9562	OAX4T	B	10000	Lima, Peru
9570	KZRM	B	5000	Manila, Philippines
	TPB11	B	25000	Paris, France
	WBOS	B	10000	Springfield, Mass.
	WPIT	B	40000	Pittsburgh, Pa.
9580	GSC	B	2000	London, Gt. Britain
	VLR	B	2000	Melbourne, Vic., Australia
9585	KZEH	B	....	Manila, Philippines
	TPB10	B	25000	Paris, France
9590	HP5J	B	1000	Panama City, Panama
	PCJ	B	60000	Hilversum, Netherlands
	VK2ME	B	20000	Sydney, NSW, Australia
	VK6ME	B	5000	Perth, W.A., Australia
	VUD2	B	10000	Delhi, India
	VUD3	B	5000	Delhi, India
	WCAB	B	10000	Philadelphia, Pa.
	WLWO	B	10000	Cincinnati, Ohio
9595	....	..	....	Athlone, Ireland
	HBL	B	20000	Geneva, Switzerland
	RAN	B	....	Moscow, U.S.S.R.
9600	CB960	B	....	Santiago, Chile
	GRY	B	....	London, Gt. Britain
	XEYU	B	....	Mexico City, D. F., Mexico
9605	JLP	T	....	Nazaki, Japan
9606	ZRL	B	5000	Capetown, Union of So. Africa
9610	YDB	B	1000	Sourabaya, Java, N.E.I.
9615	TIPG	B	2000	San Jose, Costa Rica
9616	HJ1ABP	B	608	Cartagena, Colombia
9620	HAD	B	....	Budapest, Hungary
9630	HJ7GAD	B	650	Bucaramanga, Colombia
	12R03	B	100000	Rome, Italy
9636	IFO	B	....	Itabashi, Taiwan
9645	HH3W	B	30	Port-au-Prince, Haiti
	JLT2	B	....	Tokyo, Japan
9650	LABA	B	1000	Addis Ababa, Ethiopia
	WCBX	B	10000	New York City
9655	JLS	T	....	Nazaki, Japan
9660	CR6AA	..	....	Lobito, Angola
	HVT	B	15000	Vatican City
	LRX	B	5000	Buenos Aires, Argentina
9670	12R09	B	100000	Rome, Italy
	W3XAL	B	35000	New York City
9675	DJX	B	....	Berlin, Germany
	JVW2	T	....	Nazaki, Japan
9685	TGWA	B	10000	Guatemala City, Guatemala
9690	GRX	B	....	London, Gt. Britain
	HMF	B	....	Baghdad, Iraq
	LRA	B	5000	Buenos Aires, Argentina
	ZHP	B	....	Singapore, Straits Settlements
9692	T14NRH	B	750	Heredia, Costa Rica
9700	COCA	B	....	Havana, Cuba
	....	B	1500	Fort de France, Martinique

9730	CB970	B	....	Valparaiso, Chile
9735	CSW7	B	....	Lisbon, Portugal
9750	WDL	C	20000	Ocean Gate, N. J. American Telephone & Telegraph Co.
	WOF	C	....	Lawrenceville, N. J.
9755	ZRO	B	200	Durban, Union of So. Africa
9790	CPP5	C	....	Viacha, Bolivia
	CPX4	C	....	Yacuiba, Bolivia
9835	IRF	B-E	20000	Rome, Italy
9850	VEW	C	....	Calgary, Alta. Dominion Government
9860	EAQ	C	....	Madrid, Spain
9870	WON	C	....	Lawrenceville, N. J.
9890	LSN2	T	....	Buenos Aires, Argentina
9925	IDY	B	10000	Dairen, Kwang Tung
9940	WCT	T	400	San Juan, Puerto Rico. Radio Corp. of P. R.
9950	COCU	B	15000	Havana, Cuba
	GCU	T	15000	Rugby, Gt. Britain
995	COCM	B	1000	Havana, Cuba
9990	KAZ	T	40000	Manila, Philippines. Radio Corp. of the Philippines
10000	WWV	G	1000	Beltsville, Md. National Bureau of Standards, Washington, D. C.
10042	DZB	T	....	Berlin, Germany
10055	SUV	T	10000	Cairo, Egypt
	ZFB	T	1500	Hamilton, Bermuda
10065	CON	T	....	Macau, Portuguese China
	TDE	T	....	Shinkio, Manchukuo. Manchukuo Telegraph & Telephone Co., Ltd.
10070	HRI2	C	400	La Lima, Honduras. Tela R. R. Co.
10080	RIR	..	....	Tiflis, U.S.S.R.
10105	TDB	T	20000	Shinkio, Manchukuo. Manchukuo Telegraph & Telephone Co., Ltd.
10110	VQA5	C	....	Jesselson, British North Borneo
10135	OPM	T	....	Leopoldville, Belgian Congo
10200	VBQ5	..	....	Sandakan, British North Borneo
10220	PSH	B	12000	Rio de Janeiro, Brazil
10230	CEB	T	....	Antofagasta, Chile. Cia. de Telefonos de Chile
10250	LSK3	T	5000	Buenos Aires, Argentina. Cia. Internacional de Radio, S. A. Defensa 143
10260	PMN	B	1500	Bandoeng, Java, N.E.I.
	PWH	C	....	Abrolhos, Brazil
10290	DZC	B	....	Berlin Germany - 377
10300	LSL2	T	....	Buenos Aires, Argentina. Cia. Internacional de Radio, Defensa 143
10310	PPM	T	....	Rio de Janeiro, Brazil
10330	ORK	T	11000	Brussels, Belgium
10335	ZFD	T	1500	St. George, Bermuda. Imperial and International Communications, Ltd.
10350	LSX	T	20000	Buenos Aires, Argentina. Cia. Radio-telegrafica Argentina, San Martin 329
10370	EAJ43	B	23000	Santa Cruz de Tenerife, Canaries
10400	KEZ	C	....	Bolinas, Calif.
10420	XGW	B	....	Shanghai, China
10430	TYE3	T	....	Pontoise, France
10465	WAT	C	1600	Hialeah, Fla. Tropical Radio Telegraph Co.
10480	KNR	C	....	Clearwater, Calif. Mackay Radio & Telegraph Co.
10535	JIB	B	6000	Taihoku Taiwan
	KGW	A	....	Brownsville, Texas. aPn-American Airways
10600	ZIK2	B	....	Belize, British Honduras
10610	WEA	T	40000	Rocky Point, N. Y.
10660	JVN	T	10000	Nazaki, Japan
10670	CEC	T	4000	Santiago, Chile. Cia. Internacional de Radio, Casilla 16-D
10740	JVM	T	20000	Nazaki, Japan
10770	GCP	T	15000	Rugby, Gt. Britain
10840	KWV	C	20000	Dixon, Calif.
10855	KGTY	FA	....	Butte, Mont. Aeronautical Radio, Inc.
	WAJE	FA	300	Birmingham, Ala. Same as KGTY
	WAQY	FA	300	Charleston, S. C. Same as KGTY
10890	CMA5	..	....	Havana, Cuba
10900	VEW	C	....	Calgary, Alta. Dominion Government
10960	....	B	....	Tananarive, Madagascar
10965	KNCV	FA	400	Miles Center, Mont. Aeronautical Radio, Inc.
10990	ZLT	T	....	Wellington, New Zealand
11000	PLP	B	1500	Bandoeng, Java, N.E.I.
	ZLT4	T	....	Wellington, New Zealand. Jost & Telegraph Dept.
11040	KHCIY	A	100	NC-18997. American Export Airlines.

11060	KRTA	E	125	Snow Cruiser, Little America. Byrd Antarctic Expedition
	KRTC	E	125	East Base, Little America. Same as KRTA
	KRTK	E	125	West Base, Little America. Same as KRTA
11180	PWH	..	....	Abrolhos, Brazil
11370	WMI	..	....	Lorain, Ohio. Lorain County Radio Corp.
11390	WYK	..	....	Montgomery, Ala.
11402	HBO	E	20000	Geneva, Switzerland
11410	XTB	C	....	Shanghai, China
11470	XTS	C	....	Swatow, China
11500	PMK	..	....	Bandoeng, Java, N.E.I.
11510	WMEC	C	....	St. John, Ind. Mackay Radio and Telegraph Co., Inc.
11540	XGR	T	....	Shanghai, China
11560	CMA5	B	1000	Havana, Cuba
11595	VRR4	T	....	Stony Hill, Jamaica
11660	JVL	T	....	Nazaki, Japan
11670	IGY	B	....	Rome, Italy
	PPQ	B	....	Rio de Janeiro, Brazil
11673	IOY	B	....	Rome, Italy
11680	KIO	C	....	Kahuku, Hawaii
11690	XTJ	B	....	Hankow, China
11700	CB1170	B	1000	Santiago de Chile
	HP5A	B	300	Panama City, Panama
11705	JLG3	B	....	Tokyo, Japan
	SBP	B	500	Stockholm, Sweden
11710	XEWB	B	....	Saigon, French Indo-China
	YSM	..	15	Guadalajara, aJL, Mexico
11718	CR7BH	B	200	San Salvador, El Salvador
	TPA4	B	....	Lourenco Marques, Portuguese East Africa
11720	CJRX	B	2000	Paris, France
	TPB9	B	25000	Winnipeg, Man., Canada
11721	ZP14	B	....	Paris, France
11725	YVW3	B	....	Villarrica, Paraguay
11730	PHI	B	23600	Nazaki, Japan
	WSLA	B	20000	Hilversum, Netherlands
	WSLR	B	20000	Boston, Mass.
1735	LKQ	B	5000	Boston, Mass.
11740	HP5L	B	350	Oslo, Norway
	HVJ	B	15000	David, Panama
	....	B	....	Vatican City
11750	GSD	B	20000	Athlone, Ireland
11753	COCX	B	....	London, Gt. Britain
11760	I2RO15	B	....	Havana, Cuba
	TGWA	B	10000	Rome, Italy
	XETA	B	1000	Guatemala City, Guatemala
11770	DJD	B	50000	Monterrey, N. L., Mexico
	WTCY	B	....	Berlin, Germany
11776	....	B	....	Hsingking, Manchukuo
11780	HH2X	B	....	Luxembourg
	HP5G	B	750	Port-au-Prince, Haiti
	OFE	B	....	Pana City, Panama
	....	B	....	Lahti, Finland
11790	WSLA	B	20000	Saigon, French Indo-China
11795	DJO	B	....	Boston, Mass.
11796	OAX5A	B	100	Berlin, Germany
11800	COGF	B	1000	Ica, Peru
	I2J	B	50000	Matanzas, Cuba
11801	DJZ	B	50000	Tokyo, Japan
11810	I2RO4	B	100000	Vienna, Germany
	XGOK	B	....	Rome, Italy
11820	GSN	B	....	Canton, China
	XEBR	B	150	London, Gt. Britain
11830	WCBX	B	10000	Hermosillo, Son., Mexico
11840	KZRM	B	....	New York City
11845	TPB8	B	25000	Manila, Philippines
11850	HAD	B	....	Paris, France
11855	DJP	B	50000	Budapest, Hungary
11860	GSE	B	20000	Berlin, Germany
	YDB	B	1000	London, Gt. Britain
11870	VUM2	B	10000	Sourabaya, Java, N.E.I.
	WLWO	B	10000	Madras, India
	WPIT	B	40000	Cincinnati, Ohio
	....	B	....	Pittsburgh, Pa.
11880	VLR3	B	2000	Strasbourg, France
	XEUZ	B	100	Melbourne, Vic., Australia
	XEXA	B	100	Mexico City, D. F., Mexico
11885	TPB7	B	25000	Mexico City, D. F., Mexico
	....	B	....	Paris, France

11895	HP5I	B	....	Aguadulce, Panama
11900	CD1190	B	....	Valdivia, Chile
	I2RO13	B	100000	Rome, Italy
	LYZ3	B	....	Kaunas, Lithuania
	TPA3	B	....	Paris, France
	XEWI	B	400	Mexico City, D. F., Mexico
	XGOY	B	....	Chungking, China
	XMHA	B	....	Shanghai, China
	....	B	....	Hanoi, French Indo-China
11905	HRM2	C	400	Tela, Honduras. Tela Railroad Co.
11910	KIKL	FA	....	Los Angeles, Calif. Aeronautical Radio, Inc.
	WGLP	FA	150	Portable. Same as KIKL
	WMEP	FA	....	Suffield, Ohio. Same as KIKL
	WMEW	FA	....	Portable. Same as KIKL
	WQEP	FA	....	Portable. Same as KIKL
	WQEQ	FA	....	Portable. Same as KIKL
11920	T12XD	B	....	San Jose, Costa Rica
11930	PPH	B	....	Rio de Janeiro, Brazil
11955	IUC	B	....	Addis Ababa, Italian East Africa
11960	HI2X	B	900	Trujillo, Dominican Republic
	KBRN	FA	3000	Brownsville, Texas. Aeronautical Radio, Inc.
	WAHY	FA	1000	Memphis, Tenn. Same as KBRN
	WOET	FA	1000	Charlotte, N. C. Same as KBRN
	WSJM	FA	400	Tampa, Fla. Same as KBRN
11965	CB1180	B	....	"Radio Nacional y Cultural," Chile
	HRA2	C	400	Puerto Castilla, Honduras. Tela R. R. Co.
11970	CPP7	C	....	Viacha, Bolivia
12000	RNE	B	20000	Moscow, U.S.S.R.
12120	TPZ	B	....	Alger, Algeria. L'Enferieur en Chef des P.T.T., 137 rue de Constantine, Alger.
12150	GBS	T	15000	Rugby, Gt. Britain
12195	K7XFU	..	....	Juneau, Alaska. Alaska Aeronautics and Communications Commission
12230	COCF	B	....	Havana, Cuba
12235	TFJ	B	7500	Reykjavik, Iceland
12290	GBU	T	....	Rugby, Gt. Britain
12320	VOAC	FA	....	Grand Falls, Newfoundland. Nfld. Airport, Squadron Leader H. A. L. Pattison.
12330	WAQI	FA	....	Port Washington, N. Y. Pan-American Airways, Inc.
12420	KHCIY	A	100	NC-19997. American Export Airlines
12460	HCB	B	....	Quito, Ecuador
12508	PPR	C	....	Rio de Janeiro, Brazil
12630	NAA	Time	....	Arlington, Va.
12675	....	B	....	Guayaquil, Ecuador
12680	....	..	....	Duala, French Cameroons
12682	W2XGB	GE	10000	Hicksville, N. Y. Press Wireless, Inc.
12765	VP2LO	B	500	St. Kitts, British West Indies
12830	CNR	T	12000	Rabat, Morocco. Direction de l'Office des PTT.
12840	WOO	T	20000	Ocean Gate, N. J. American Teleph. & Teleg. Co., 32 Sixth Ave., NYC.
12862	KRTA	E	125	Snow Cruiser, Little America. Byrd Antarctic Expedition.
	KRTC	E	125	East Base, Little America. Same as KRTA
	KRTK	E	125	West Base, Little America. Same as KRTA
1262 1/2	KHRH	RB	100	NC-19904. Howard R. Hughes, NYC.
	KFSM	RB	....	New York City. NBC Inc.
	K6XAK	GE	1500	Kaena Point, Hawaii. Globe Wireless, Ltd.
	WCBN	RB	....	New York City. CBS, Inc.
	WNBW	RB	....	New York City. CBS, Inc.
	W2XAA	..	....	Portable. Bell Telephone Labs.
	W4XID	EI	50	W. Palm Beach, Fla. Gray Radio Co.
	W4XIJ	FA	1000	Coral Gables, Fla. Pan-American Airways
	W6XQW	GE	1000	Palo Alto, Calif. Standard University
	W6XXT	GE	5000	Portable. Press Wireless, t.Ld.
	W7XBA	E	15	Portable. Northern Radio Co.
	W7XEY	EI	60	Seattle, Wash. Radio Labs., Inc.
	W7XEX	EI	60	Seattle, Wash. Radio Labs., Inc.
	W8XUK	GE	10	Portable. W. Va. Univ. Dept. of Physics.
	W8XUL	GE	10	Portable. W. Va. Univ. Dept. of Physics.
	W9XDH	GE	1000	Elgin, Ill. Press Wireless, Inc.
	W9XEI	GE	400	Lake Bluff, Ill. Thorne Donnelley
	W10XJF	E	....	Yacht "Mako." Thorne Donnelley
	W10XJJ	GE	25	Portable. Harvey Radio Labs., Inc.
12870	VVS	B	1500	Mingaladon, Burma
12885	NPG	Time	....	San Francisco, Calif.
12980	WFB	C	800	New Orleans, La. Tropical Radio Teleg. Co.
12998	TYC1	C	....	Ste. Assise, France
13000	CR6AA	B	....	Lobito, Angola

13060	HRE3	C	400	Tegucigalpa, Honduras. Tropical Radio Telegraph Co.
13075	HRI3	C	400	La Lima, Honduras. Tela R. R. Co.
13075	VPD	B	....	Suva, Fiji
13200	CFU	C	....	Annabie, B. C. Consolidated Mining & Smelting Co.
13260	VVN	..	750	Fort Madras, India
	ZMBJ	B	....	T.S.S. "Awatea." Union Steam Ship Co. of New Zealand, Ltd.
13337	YVQ	T	....	Maracay, Venezuela
13380	IDU	T	....	Asmara, Eritrea
13410	HHS	T	....	Port-au-Prince, Haiti
	WCT	T	....	San Juan, Puerto Rico. Radio Corp. of P. R.
13530	TDH	T	400	Shinkio, Manchukuo
13585	GBF	T	....	Rugby, Gt. Britain
13650	HRU5	C	400	Puerto Castilla, Honduras. Tela R. R. Co.
13690	KKZ	..	....	Bolinas, Calif.
13705	WOAD	C	1000	Creston, Ind. R.C.A. Communications.
13745	CGA2	T	....	Drummondville, P. Q.
13760	TYE2	T	20000	Pontoise, France. Societe Francaise Radio-Electrique, 79 Blvd. Haussmann, Paris.
13780	KKW	..	....	Bolinas, Calif.
13810	HRM	C	400	Tela, Honduras. Tela R. R. Co.
13815	SDE	..	....	Varberg, Sweden
13820	SUZ	T	....	Cairo, Egypt
13880	VJZ	T	....	Raboul, New Guinea
13900	WQP	T	....	Rock Point, N. Y.
	YN3DG	B	....	Leon, Nicaragua
13950	LSB	C	....	Buenos Aires, Argentina
13980	TDC	T	....	Shinkio, Manchukuo. Man. Telegraph & Telephone Co., Ltd.
13990	CLX	G	250	Havana, Cuba. Observatorio Nacional, Casa Blanca
	GBA2	T	....	Rugby, Gt. Britain
13995	CLA5	G	200	Havana, Cuba. Direccion de Radio, Secretaria de Comunicaciones, Oficios 40
14000	to			Amateurs
1440				
14050	EA9AH	B	500	Tetuan, Spanish Morocco
14122	YV9AB	..	....	In Venezuela on Guiana-Brazil Border Expedition Tecnico de Minería y Geología, Ministerio de Fomento, Caracas
14125	YV9AB	..	....	Same as above.
14150	KC4USA	..	500	West Base, Little America. Byrd Antarctic Expedition
	KC4USA	..	500	East Base, Little America. Same as KC4USA
	KC4USC	..	500	Snow Cruiser, Little America. Same as KC4USA
14164	PIIJ	B	50	Dortrecht, Netherlands
14420	HC1JB	B	....	Quito, Ecuador
14440	GBW	T	15000	Rugby, Gt. Britain.
14460	DZH	T	....	Berlin, Germany
14470	WDO	T	20000	Ocean Gate, N. J.
	WMF	T	....	Lawrenceville, N. J.
14480	YNA	T	....	Managua, Nicaragua
14485	HJA3	T	....	Bogota, Colombia
	HPF	T	....	Panama City, Panama
	HRF	T	400	Tegucigalpa, Honduras. Tropical Radio & Telegraph Co.
	YSJ	T	....	San Salvador, E. S. Telegrafos, Telefonos y Radio Nacionales
14500	LSM2	T	....	Buenos Aires, Argentina. Cia. Internacional de Radio, Defensa 143
14530	LSN1	T	....	Buenos Aires, Argentina. Cia. Internacional de Radio, Defensa 143.
14535	HBJ	B	....	Geneva, Switzerland
14545	TGF	T	....	Guatemala City, Guatemala
	TIU	T	....	Cartago, Costa Rica. Cia. Radiografica Internacional de C. R.
14590	WMN	T	80000	Lawrenceville, N. J.
14595	PVA3	..	....	Alcobaca, Brazil
14635	GBL	T	....	Rugby Gt. Britain
14640	IVH	T	20000	Nabaki, Japan
14695	KNR	C	....	Clearwater, Calif. Mackay Radio and Telegraph Co.
14736	IQH	..	....	Rome, Italy, Italo Radio
14795	IOA	B	....	Rome, Italy
14797 1/2	W2XYR	GE	125	Wilmington, N. Y. Whiteface Mountain Meteorological Observatory

14800	WQV	..	....	Rocky Point, N. Y.
14845	OCT2	T	....	Lima, Peru
14900	LZA	B	1500	Sofia, Bulgaria
14910	JVG	T	....	Nazaki, Japan
14930	HJB	T	....	Bogota, Colombia
14935	PSE	B	....	Janeiro, Brazil
14940	HIR	T	....	Trujillo, Dominican Republic.
	HJA3	T	....	Barranquilla, Colombia
14950	CPP8	C	....	Viacha, Bolivia
	CPX3	C	....	Yacuiba, Bolivia
14960	YSL	C	....	San Salvador E. S. Telegrafos, Telefonos y Radio Nacionales
1490	KAY	C	....	Manila, Philippines
15000	WWV	G	....	Beltsville, Md.
15040	RKI	B	....	Moscow, U.S.S.R.
	WYG	FA	....	Kelly Field, Texas
15055	WNC	T	400	Hialeah, Fla.
15080	RKI	B	....	Moscow, U.S.S.R.
15100	I2RO12	B	100000	Rome, Italy
15105	JLG4	T	....	Nazaki, Japan
15110	DJL	B	50000	Berlin, Germany
15115	JLR2	T	....	Nazaki, Japan
15120	HVJ	B	15000	Vatican City
	....	B	....	Athlone, Ireland
15130	TPB6	B	25000	Paris, France
	WSLA	B	20000	Boston, Mass.
	WSLR	B	20000	Boston, Mass.
15135	JLU3	T	....	Nazaki, Japan
15140	GSF	B	15000	London, Gt. Britain
15150	YDC	T	3000	Bandoeng, Java, N.E.I.
15155	SM5SX	B	500	Stockholm, Sweden
15160	JZK	B	50000	Delhi, India
	VUD3	B	5000	Mexico City, D. F., Mexico
	XEWV	B	10000	Montevideo, Uruguay
15170	CXA14	B	....	Oslo, Norway
	LKV	B	5000	Guatemala City, Guatemala
	TGWA	B	10000	London, Gt. Britain
15190	OIE	B	....	Moscow U.S.S.R.
15180	GSO	B	....	Lahti, Finland
15200	DJB	B	8000	Ankara, Turkey
	RW96	B	100000	Berlin, Germany
15195	TAQ	B	20000	Lungtso, China
	XGOX	B	....	Pittsburgh, Pa.
15210	WPIT	B	40000	Hilversum, Netherlands
15220	PCJ2	B	60000	Nazaki, Japan
15225	JLT3	T	....	Nazaki, Japan
15235	JVW4	T	....	Lourenco Marques, Mozambique
15240	JR7BD	B	....	Paris, France
	TPB5	B	25000	Paris, France
15250	WSLA	B	20000	Boston, Mass.
15260	GSI	B	....	London, Gt. Britain
15270	WCAB	B	10000	Philadelphia, Pa.
	WCBZ	B	10000	New York City

(To be continued in the next issue)

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.
GEO—Geophysical.	CC—Coastal Telegraph.
RC—Circular radiobeacon.	CH—Coastal harbor.
RD—Directional radiobeacon.	CHC—Coastal harbor telegraph.
RG—Direction finding station.	CHT—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 that station, as for example: WRHD MP 250 Louisville, Ky. (2 units-12 w).

Applications to the FCC

CP—Construction permit.
mod.—modification.
lic.—license.
ltd.—limited time.
unltd.—unlimited time.
S. H.—specified hours.

KDON, Monterey, CP 500(1), 1440 kcs.
KEEN, Seattle, CP 1370 kcs. to 1420 kcs.
KFBB, Great Falls, mod. of lic. for 900 kcs., 5 kw.
KFIO, Spokane, CP 950 kcs., 1 kw. unltd.
KFNF, Shenandoah, mod. of CP to move to Council Bluffs.
KFPW, Ft. Smith, CP 1370 kcs.
KFRU, Columbia, to 1370 kcs., 250 w. unltd.
KFYO, Lubbock, to 1380 kcs., 500(1).
KGDH, Stockton, 1530 kcs., 1 kw. unltd.
KMAC, San Antonio, CP 930 kcs., 1000 w. unltd.
KOVX, Valley City, CP 1340 kcs., 500(1).
KOY, Phoenix, mod. of lic. for 550 kcs.
KRBC, Abilene, CP 940 from 1420; 1 kw.
KRRM, Jamestown, CP 900 kcs., 1 kw.
KRRV, Sherman, CP 880 kcs., 1 kw. unltd.
KSD, St. Louis, CP 630 kcs.
KSEI, Pocatello, CP 600 kcs., 1 kw. unltd.
KTBS, Shreveport, CP 620 kcs., 1000(5) unltd.
KWK, St. Louis, CP 630 kcs.
KXL, Portland, CP 730 kcs., 10 kw. unltd.
KXOK, St. Louis, CP 630 kcs., 1000(5).
KXYZ, Houston, CP 710 kcs.; 10 kw.
KYOS, Merced, CP 1390 from 1040; 500(1) unltd.
WAPI, Birmingham, CP 1050 kcs., kw.
WCAD, Canton, CP Watertown, N. Y.
WCOL, Columbus, to 1200 kcs., 250 w. unltd.
WGBF, Evansville, CP 1250 kcs., 1000(5) unltd.
WGRC, New Albany, CP 880 kcs., 250 w. unltd.
WHA, Madison, CP 670 kcs. 50 kw. unltd. (facilities of WMAQ).
WIBC, Indianapolis, mod. lic. 1130 from 1050; 1 kw.
WJJD, Chicago, CP 1040 from 1130; 1000(25) unltd.
WKAQ, San Juan, CP 620 kcs. 5 kw.
WLAP, Lexington, CP 1270 kcs. 1 kw. unltd.
WMBC, Detroit, CP 600 kcs.
WREN, Lawrence, CP Kansas City.
WROL, Knoxville, CP 620 kcs. 500(1).
WSBT, South Bend, CP 930 kcs. 500 w. unltd.
WSFA, Montgomery, CP 1410 kcs. 1 kw. unltd.
WSPR, Springfield, CP 1240 from 1140; 500 w. unltd.
WTJS, Jackson, CP 1380 from 1310; 1 kw.; mod. lic. 250 unltd.
WWVA, Wheeling, CP 1140 from 1160; 50 kw.
Applications for New Stations
Albamarle, N. C., Albamarle Brdcastg. Station, 1370 kcs. 100 w. days.
Arlington, Va., Arlington Brdcastg. Corp., 1420 kcs. 250 unltd.
Asheville, N. C., Publix-Bamford Theaters, Inc., 1430 kcs. 1 kw. unltd.
Atlantic City, N. J., Atl. City Brdcastg. Co., 1100 kcs. 5 kw. sharing with WBIL.

Atlantic City, N. J., Neptune Brdcastg. Corp., 1420 kcs. 100(25).
Bainbridge, Ga., Post Search Light Co., 1500 kcs., 100(25).
Bellingham, Wash., Bell Brdcastg. Co., Inc., 1200 kcs. 100(25).
Birmingham, Ala., B. News Co., 590 kcs. 1 kw. unltd.
Boston, Mass., Mayflower Brdcastg. Corp., 1410 kcs. 500(1).
Bridgeport, Conn., Chas. Greenblatt, 1190 kcs. 250 w. ltd.
Bridgeport, Conn., Harold Thomas, 1420 kcs. 250 unltd.
Brownwood, Tex., Brown County Brdcastg. Co., 990 kcs. 1 kw. days.
Burlington, Iowa, Burlington Brdcastg. Co.
Burlington, N. C., Burlington Brdcastg. Co., 1420 kcs., 100 D.
Burlington, N. C., Central Carolina Brdcastg. Co., 1420 kcs., 250 unltd.
Cedar Rapids, Iowa, The Gazette Co., 1420 kcs. 100 w. unltd.
Cheyenne, Wyo., Western Brdcastg. Co., 1210 kcs. 100(25).
Cleveland, Ohio, Cuyahoga Valley Brdcastg. Co., 1500 kcs. 100 w. days.
Clinton, Iowa, Clinton Brdcastg. Corp.
Columbus, Miss., Birney Imes, 1370 kcs. 100(25) unltd.
Ely, Nev. Eastern Nev. Brdcastg. Co., 1500 kcs. 100 days.
Everett, Wash., Cascade Brdcastg. Co., 1420 kcs. 100(25) unltd.
Ft. Myers, Fla., Palm Radio Co., 1210 kcs., 250 unltd.
Greenville, Tex., Hunt Brdcastg. Assn., 940 kcs., 1 kw D.
Hannibal, Mo., Courier Post Pub. Co.
High Point, N. C., High Point Brdcastg. Co., 1120 kcs., 250 unltd.
Jacksonville, Ill., Stephenson, Edge & Kormeyer, 1370 kcs., 250 unltd.
Kosciusko, Miss., P. K. Ewing, 1500 kcs., 100(25). unltd.
Las Vegas, Nev., Las Vegas Brdcastg. Co., 1420 kcs. 100(25).
Las Vegas, Nev., Nev. Brdcastg. Co., 1370 kcs. 100(25) unltd.
Lookout Mt., Ga., Lookout Mt. Corp., of Ga., 1370 kcs., 100(25).
Louisville, Ky., Gateway Brdcastg. Co., 880 kcs. 500 unltd.
Miles City, Mont., E. E. Krebsbach 1310 kcs., 100(25).
Miles City, Mont., Star Printing Co., 1310 kcs., 250 unltd.
Norfolk, Va., Colonial Brdcastg. Corp., 1370 kcs. 100(26).
North Sacramento, Calif., Grant Union High School District, 1530 kcs., 1 kw.
Pawtucket, R. I., Pawtucket Brdcastg. Co., 1390 kcs. 1 kw. unltd.
Pontiac, Mich., King-Trendle Brdcastg. Corp., 1440 kcs. 250 unltd.
Riverside, Calif., Brdcastg. Corp. of America, 1390 kcs. 1 kw.
Riverside, Calif., Richard T. Sampson, 1390 kcs. 250 days.
Rochester, N. Y., Edward J. Doyle, 1270 kcs. 500 days.
Salina, N. Y., Sentinel Brdcastg. Corp., 620 kcs. 1 kw. unltd.
Sandusky, Mich., Thumb Brdcastg. Co., 880 kcs. 1 kw. days.
San Diego, Calif., Jack Hazard, 1450 kcs., 500 w. unltd.
San Juan, P. R., Enrique Abarca Sanfells, 580 kcs. 1 kw. unltd.

San Juan, P. R., United Theaters, Inc., 580 kcs. 1 kw. unltd.
Santa Monica, Calif., A. E. Austin, 1160 kcs. 100(25).
Shelby, N. C., Jos. A. Lattimore, 1370 kcs. 100(25) unltd.
Springfield, Ohio, Radio Voice of Springfield, 1310 kcs. 100 unltd.
Springfield, Ohio, S. Radio Corp., 1310 kcs. 100 unltd.
Springfield, Ohio, S. Radio Service, 780 kcs. 250 days.
Steubenville, Ohio, Valley Brdcastg. Co., 930 kcs., 1 kw D.
Tacoma, Wash., Tacoma Brdcastg. Co., 1420 kcs. 100(25).
Tacoma, Wash., Michael J. Mingo, 1400 kcs. 250 unltd.
Traverse City, Mich., Northern Brdcastg. Co., 570 kcs. 500 days.

Valdosta, Ga., John F. Arrington, Jr., 1230 kcs. 250 unltd.
Watertown, N. Y., Black River Valley Brdcastg. Co.
Watertown, N. Y., Watertown Brdcastg. Corp.
Watertown, S. Dak., Midland Brdcastg. Co., 1210 kcs., 100(25).
Wisconsin Rapids, Wis., Wm. F. Huffman, 1310 kcs., 100(25).
Worcester, Mass., Winfield A. Schuster, 1200 kcs. 100 unltd.
Worcester, Mass., C. T. Sherer Co., Inc., 1200 kcs. 100(25).

Stations Using Special Frequencies

Call	City	Assigned	Using
KTHS	Hot Springs	1040	1060
KWKH	Shreveport	850	1100
WTIC	Hartford	1060	1040

The Month's Changes in Station Data

1210	WSAY	Rochester, new MBS
1210	WTMA	Charleston, new NBC
1310	WSAV	Savannah, new NBC
1370	WATL	Atlanta, new MBS
		Delete
1120	KTBC	Austin, Texas
1310	KAND	Corsicana, Texas
1310	KRBA	Lufkin, Texas
1420	KNET	Palestine, Texas
1500	KGKB	Tyler, Texas
1500	KSAM	Huntsville, Texas
		Permit to Change Power
550	WSVA	Harrisonburg to 1000
560	KLZ	Denver to 5000
590	WKZO	Kalamazoo to 2500(1)
610	KFRC	San Francisco, to 5000
610	WIP	Philadelphia, to 5000
630	WMAL	Washington, to 5000
740	WHEB	Portsmouth, to 1000
760	KXA	Seattle, to 1000
770	KFAB	Lincoln, to 50,000
850	WKAR	E. Lansing, to 5000
880	WRNL	Richmond to 1000
880	WSUI	Iowa City, to 1000(5)
890	KFNF	Shenandoah, to 1000(5)
900	KGBU	Ketchikan, to 1000
940	KOIN	Portland, to 5000
950	KMBC	Kansas City, to 5000
950	WRC	Washington, to 5000
990	XEK	Mexico City, to 500
1120	KRSC	Seattle, to 1000
1200	KADA	Ada, to 250
1200	WJBW	New Orleans, to 250
1200	WSKB	McComb, to 250
1210	KFPW	Fort Smith, to 250
1210	WCOL	Columbus, to 250
1210	WHIZ	Zanesville, to 250
1210	WJEF	Hagerstown to 250
1220	WCAE	Pittsburgh, to 5000
1220	WDAE	Tampa, to 5000
1300	WFBC	Greenville, to 5000
1310	KRRV	Sherman, to 1000
1310	KTSM	El Paso, to 500
1310	WNBH	New Bedford to 250
1320	KGMB	Honolulu, to 5000
1320	WADC	Akron to 5000
1320	WSMB	New Orleans, to 5000
1330	KGB	San Diego, to 5000
1330	KSCJ	Sioux City, to 5000
1330	WDRG	Hartford to 5000
1330	WSAI	Cincinnati, to 5000
1330	WTAQ	Green Bay, to 5000
1340	WSPD	Toledo, to 5000
1350	KWK	St. Louis, to 5000
1350	WMBG	Richmond, to 1000(5)
1370	KERN	Bakersfield, to 1000
1370	KFRO	Longview, to 1000
1370	WMSL	Decatur, to 250
1370	WPRA	Mayaguez, to 1000(2.5)

1200	WBOW	Terre Haute Ind., from 1310
1220	KPAC	Port Arthur, Tex., from 1260
1370	KFVS	Cape Girardeau Mo., from 1210
		Power
590	WEEI	Boston, 5000 from 1000(5)
630	WPRO	Providence, 1000(5) from 500(1)
710	KMPC	Beverly Hills, 1000(5) from 500
940	WICA	Ashtabula, 500 from 250
1120	WJBO	Baton Rouge, 1000 from 500
1200	KVCV	Redding, 250 from 100
1200	KVNU	Logan, 250 from 100
1200	WBOW	Terre Haute, 250 from 100(25)
1200	WJRD	Tuscaloosa, 100(25) from 250 D.
1200	WTOL	Toledo, 250 from 100
1210	KANS	Wichita, 250 from 100
1210	KHBG	Okmulgee, 250 from 100
1260	KHSL	Chico, 500(1) from 250
1310	KWOC	Poplar Bluff, 250 from 100
1310	WGTM	Wilson, 250 from 100
1370	KVFD	Fort Dodge, 250 from 100(25)
1370	KVGB	Great Bend, 250 from 100
1420	WMFJ	Daytona Beach, 250 from 100
1500	KROD	El Paso, 250 from 100
1500	KUTA	Salt Lake City, 250 from 100
		Call Letters
1370	WORD	Spartanburg S. C., from WHTR
		Location
1200	WHBY	Appleton Wis., from Green Bay
		Network
550	WGR	Buffalo, new MBS
710	KMPC	Beverly Hills, new CBS
1200	WCAX	Burlington, new CBS

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 but using this power under Special Authorization.
K—Licensed for facsimile.
L—Limited time.
M—Mutual Network.

N—National "Red" and "Blue" Networks.
P—Has Construction Permit only.
Q—Station not in use.
R—National "Red" Network.
S—Synchronized.
X—Has Permit to change power.
Y—Has Permit to change location.
Z—Has Permit to change frequency.
a-b-c—Small letters show stations using same transmitter.

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

540 kcs. (552.2 m.)

CBK F 50000

a Watrous, Sask.

550 kcs. (545.1 m.)

CFNB F 1000
 CMW ... 2500
 KFYO 2 500(1)
 KFYO N 1000(5)
 KOAC 2R 1000
 KSD 2R 1000(5)
 KTSA C 1000(5)
 WDEV D 1000
 WGR CM 1000(5)
 WKRC 1000(5)
 WSWA DX 500

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

Herman Hohenstein Mgr.
 W. R. Griffin, DX Ann'cr.
 Luke L. Roberts, Mgr.
 Geo. Burbach, Mgr.
 G. W. Johnson, Mgr.
 Melvin Stickles, Ch. Eng.
 I. R. Lounsbury, Gen. Mgr.
 Vera Tyson
 Wendell Siler Prog. Dir.

560 kcs. (535.4 m.)

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

a Beaumont, Texas
 a Denver, Colo.
 a San Francisco, Calif.
 a Springfield, Mo.
 a Philadelphia, Pa.
 a Gary, Ind.
 a Columbia, S. C.
 a Miami, Fla.

Bernice Anderson, Sec'y.
 G. W. Meyer, Mgr.
 Philip G. Lasky, Mgr.
 Ralph D. Foster, Mgr.
 Roger W. Clipp, Gen. Mgr.
 Kenneth Shirk, Ch. Eng.
 Floyd Rodgers, Prog. Dir.
 Norman MacKay, Prog. Dir.

570 kcs. (526 m.)

KGKO N 1000(5)
 KMTR ... 1000
 KVI ... 1000(5)
 TISCV 575 100
 WKBN C1 500(1)
 WMAM D 250
 WMCA ... 1000
 WNAX ... 1000(5)
 WOSU G1 1000
 WSYR Ba 1000
 WSYU Ba 1000
 WWNC C 1000
 P 1000

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

Harold V. Hough, Mgr.
 Kenneth Tinkham, Mgr.
 J. W. Wallace, Ch. Eng.
 Carlos Vidache A.
 C. L. Lindberg
 F. Hapton
 Clifton Todd, Ch. Eng.
 A. Hammerschmidt, Ch. Eng.
 Armand G. Belle Isle Chi. Eng.
 Armand G. Belle Isle Chi. Eng.
 G. B. Hoskins Ch. Eng.

580 kcs. (516.9 m.)

CFPR ... 50
 CHRC ... 100
 CKCL ... 100
 CKPR F 1000

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

Felix E. Batt

RADEX

CKUA F 500
 KMJ EKN 1000
 KSAC 2 500(1)
 WCHS 500(5)
 WDBO C 1000(5)
 WIBW CZ 1000(5)
 WILL D 5000
 WTGW R 1000
 XEMU ... 250

590 kcs. (508.2 m.)

CMCY ... 15000
 KHQ ER 5000
 WEEI C 5000
 WKZO BDX 1000
 WOW R 5000

600 kcs. (499.7 m.)

CFCF BF 500
 CFQC F 1000
 CJOR ... 500
 FON 609 250
 KFSD B 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
 KFAR ... 1000
 KFRC MX 1000(5)
 WCLE DM 500
 WDAF R 5000
 WIOD Na 1000
 WIP X 1000
 WMBF Qa 1000

620 kcs. (483.6 m.)

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

630 kcs. (475.9 m.)

CFCO F 100
 CFYC F 1000
 CJRC F 1000
 CKOV F 1000
 CMCD ... 15000
 KFRU 1 500(1)
 KGFX D 200
 KVOD B 1000
 WGBF NI 500(1)
 WMAL BX 250(5)
 WPRO C 1000(5)
 XEZ ... 2000

640 kcs. (468.5 m.)

HOK ...
 KFI R 50000
 VONF ... 12500
 WGAN CL 500
 WHKC LM 500
 WOI D 5000
 XEBX ... 250
 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.
 a Bridgeport, Conn.
 a Cedar Rapids, Iowa
 a Memphis, Tenn.

a New Carlisle, P. Q.
 z Fairbanks, Alaska
 b San Francisco, Calif.
 a Cleveland, Ohio
 a Kansas City, Mo.
 a Miami, Fla.
 a Philadelphia, Pa.
 a Miami, Fla.

a Portland, Ore.
 a Phoenix, Ariz.
 z Wichita Falls, Tex.
 b San Jose Costa Rica
 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 Denver, Colo.
 a Evansville, Ind.
 a Washington, D. C.
 a Providence, R. I.
 a Merida, Yuc.

z Colon, Panama
 f Los Angeles, Calif.
 a St. John's, Nfld.
 a Portland, Maine
 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.
 James E. Yarbrough Ch. Eng.
 Ren Ludy, Gen. Mgr.
 A. James Ebel, Ch. Eng.
 Lillian Murphy, Prog. Dir.

A. Valdes, Gen. Mgr.
 Harvey Wixson, Mgr.
 Margaret Grady
 John Fetzer, Gen. Mgr.
 Wm. Kotera, Ch. Eng.

Kenneth Paul, Ch. Eng.
 A. A. Murphy, Gen. Mgr.
 D. E. Laws, Mgr.
 G. Salomon
 Leah McMahon, Prog. Dir.
 Gonzalo Pinto H.
 M. W. Lewis
 aGro Ray, Ch. Eng.
 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.
 J. A. Flaherty, Ch. Eng.
 Ruth Richardson
 James Allen Prog. Dir.
 RADEX GAL 1

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 Beardsall
 John Q. Adams, Ch. Eng.
 G. A. Titus, Mgr.
 James Browne, Ch. Eng.
 J. Benitez, Mgr.
 Robert Haigh, Ch. Eng.
 Robt. Dye, Ch. Eng.
 T. C. Ekrem, Mgr.
 Pat Roper, Prog. Dir.
 A. E. Johnson, Ch. Eng.
 Margaret O'Rourke
 Jorge Palomeque

Dorothy Roe
 C. E. Gatchell
 J. E. Anderson, Ch. Eng.
 W. E. Stewart, Ch. Eng.
 Benito Garzo O.

650 kcs. (461.3 m.)

TIGPH P
WSM KN 50000

660 kcs. (454.3 m.)

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

670 kcs. (447.5 m.)

WMAQ R 50000
XELO ... 50000
.... P 1000

680 kcs. (440.9 m.)

CMHW ... 200
KFEQ ... 500(2.5)
KPQ R 50000
VAS 685 2000
WLAW D 1000
WPTF JN 5000

690 kcs. (434.5 m.)

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

700 kcs. (428.3 m.)

VOWR ... 500
WLW KN 50000
WBXO Exp 500000

710 kcs. (422.3 m.)

CMGH ... 200
CMKS ... 200
KIRO ... 1000
KMPC C 1000(5)
WOR KM 50000
.... P 1000

720 kcs. (416.4 m.)

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

730 kcs. (410.7 m.)

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

740 kcs. (405.2 m.)

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

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

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

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

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

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

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

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

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

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

a Grand Island, Nebr.
a Modesto, Calif.
a Portsmouth, N. H.
a Atlanta, Ga.
a Monterrey, N. L.
z Guantanamo, Cuba

Gonzalo Pinto H.
Harry Stone, Gen. Mgr.

Rodolfo Gonzales S.
Juan Fernandez D.
W. F. Myers, Mgr.
Audience Mail Dept.
....

Audience Mail Dept.
....
....

Guillermo Domenech G.
J. Wesley Koch, Ch. Eng.
Audience Mail Supervisor
....
Geo. R. Leckley, Ch. Eng.
Graham Poyner, Prog. Dir.

H. Sedgwick, Man. Dir.
R. H. Henderson, Ch. Eng.
O. Fernandez
Gonzalo Garcia
....

Wilfred Guenther, Mgr.
Wilfred Guenther, Mgr.

H. J. Quilliam, Mgr.
L. A. Schamblin, Mgr.
J. R. Poppele, Ch. Eng.
....

Fausto Mentiel
Amando Cespedes Marin
Quinn A. Ryan, Gen. Mgr.
....

L. J. Yorke, Ch. Eng.
W. T. Cranston, Mgr.
Leonard Spencer, Ch. Eng.
J. M. Marroqui II
....

Randall Ryan, Mgr.
Don R. Stevens
C. R. McTammany, Mgr.
T. F. Daugherty, Ch. Eng.
Constantino de Ternava
....

RADEX

RADEX

750 kcs. (399.8 m.)

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

760 kcs. (394.5 m.)

KXA X 250(5)
WBAL BHMS 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
CMQ N 25000
KECA ... 1000(5)
KFDY D 1000
KFO D 250
KGHL N 1000(5)
KWLK D 250
WEAN BM 1000(5)
WMC JR 5000
WPIC D 250
WTAR N 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
XEDF ... 100

820 kcs. (365.6 m.)

WHAS C 50000
XEBG ... 1000

830 kcs. (361.2 m.)

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

a Havana, Cuba
a Honolulu, Hawaii
z San Jose, Costa Rica
a Detroit, Mich.
a Mexicali, B. Cfa.
z Matamoros, Tam.

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 Longview, Wash.
a Providence, R. I.
a Memphis, Tenn.
a Sharon, Pa.
a 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 Nuevo Laredo, Tam.

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

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

Laureano Suarez
Marion A. Mulroney, Mgr.
Narciso Garcia
Geraldine Elliott, Prog. Dir.
Alberto Gonzalez
Manuel L. Salinas

Florecen 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
A. Boyes

Jack Pilling, Ch. Eng.
W. E. Mason
Miguel Gabriel, Adm.
Jack Gross, Mgr.
S. W. Jones, Mgr.
R. E. McDonald, Mgr.
Ed Yocum, Mgr.
M. F. Woodling, Mgr.
Rose M. Powers
J. C. Eggleston, Mgr.
John MacDonald, Eng.
Lee Chadwick, DX
Correspondent
Guillermo de la 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.
Irvin Gross, Mgr.
Geo. R. Lenhart, Ch. Eng.

Oscar Gutierrez
Hugh McCartney, Ch. Eng.
Issac Brimberg, Ch. Eng.
....
Ruperto Villarreal

Credo Fitch Harris, Dir.
Angel B. Fernandez

....
T. E. Stepp
Eduardo Pinto H.
M. Leonard Savage, Eng.
M. Bresnahan
Joseph 'Weil, Ch. Eng.
Carlos Dragome Narro

840 kcs. (356.9 m.)

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

850 kcs. (352.7 m.)

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

860 kcs. (348.6 m.)

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

870 kcs. (344.6 m.)

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

880 kcs. (340.7 m.)

CBO F 1000
CFJC F 1000
CMX ... 15000
KFKA M2 500(1)
KLX ... 1000
KPOF 2 1000
KVAN D 250
TILS ... 500
WCOC C 1000
WGBI CI 500(1)
WQAN I 500(1)
WRNL DX 500
WSUI X 500(1)

890 kcs. (336.9 m.)

KARK N 1000
KFNF X2 500(1)
KFPY C 5000
KTKC M 1000
KUSD 2 500
WBAA ... 500(1)
WGST C 1000(5)
WJAR R 1000(5)
WMMN C 1000(5)
XEW ... 100000

900 kcs. (333.1 m.)

HIG ... 250
KGBU X 500
KHJ M 1000(5)
KSEI N 250(1)
TIAFB ... 600
WBEN R 1000(5)
WFMD D 500
WJAX N 1000(5)
WKY N 1000(5)
WLBL D 5000
WTAD D 1000

910 kcs. (329.6 m.)

CBF FN 50000
CJAT F 1000
CKY F 15000
CMBO ... 5000

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

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

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

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

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

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.

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.
a Quincy, Ill.

a Montreal, P. Q.
a Trail, B. C.
a Winnipeg, Man.
a Havana, Cuba

W. C. Little, Ch. Eng.
....
Don Howard

V. Montes
David H. Cannon
True McLean, Ch. Eng.
Norris Grover, Ch. Eng.
J. D. Bloom, Ch. Eng.

Rafael Valdes
Rafael Hine Ch.
....
M. H. Straight, Mgr.
Fernando Federico Ferreira

....
T. L. Rowe, Ch. Eng.
Jesus Quintanilla
....

Lillian E. de Olloqui
L. Irwine, Ch. Eng.
Raoul Karman, Dir.
H. E. Green, Mgr.
P. D. Allen, Mgr.
Wesley O. Lomlin, Anne'r.
Paul W. Spargo, Ch. Eng.
Luis Saenz Mata
John B. Rogers, Ch. Eng.
K. R. Cooke, Ch. Eng.
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Walter R. Selden, Ch. Eng.
Sylvanus Ebert, Ch. Eng.

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 Akeman, Ch. Eng.
Thomas Prior, Ch. Eng.
J. R. Heck, Ch. Eng.
....

Andres Cordero Puella
James A. Britton, Mgr.
Lewis Allen Weiss, Mgr.
R. A. Fletcher, Prog. Dir.
Maya 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.

RADEX

CMKD ... 1000
XENT Q 50000

920 kcs. (325.9 m.)

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

930 kcs. (322.4 m.)

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

940 kcs. (319 m.)

CMBZ ... 200
KOIN CX 1000(5)
TIO ... 500
WAAT D 500
WAVE N 1000
WCHS R 1000(2.5)
WDAY N 1000(5)
WHA D 5000
WICA DX 250
XEFO ... 5000

950 kcs. (315.6 m.)

CBV F 1000
CJRM F 1000
CMKL ... 200
KFWB E 5000
KMBC CX 1000(5)
VOAR ... 25
WHAL DP 500
WRC RX 1000(5)
WTRY DP 1000

960 kcs. (312.3 m.)

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

970 kcs. (309.1 m.)

CMCK ... 5000
KJR B 5000
WCFL N 5000
WIBG D 100

980 kcs. (306 m.)

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

990 kcs. (302.8 m.)

WBZ BS 50000
WBZA BS 1000

a Santiago de Cuba
a Nuevo Laredo, Tam.

z Trinidad, Cuba
z Havana, Cuba
z 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.
z Camaguey, Cuba
a Shenandoah, Iowa
a Oakland, Calif.
a Birmingham, Ala.
a Roanoke, Va.
a New Haven, Conn.
a Hermosillo, Son.

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

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

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

z Havana, Cuba
a Seattle, Wash.
a Chicago, Ill.
a Glenside, Pa.

b Pittsburgh, Pa.
a Tijuana, B. Cfa.
z Nuevo Laredo, Tam.

a Boston, Mass.
a Springfield, Mass.

Francisco Meneau
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.
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E. S. Long, Ch. Eng.
Ty Tyson

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R. H. Thomson
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Vincente Salgado
J. Rapp, Mgr.
H. P. Drey, Mgr.
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Carlos Balderrama

Manuel Salas
B. J. Parrish, Mgr.
Guillermo Castro S.
Paul H. LaStayo, Mgr.
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G. Fred Crandon, Ch. Eng.
Julius Hetland, Ch. Eng.
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C. A. Rowley
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Alberto Alvarez Ferrera
Harry Maizlish, Mgr.
Arthur B. Church, Mgr.
....
Audience Mail Dept.
....

Luis Casas R.
Audience Mail Dept.
Maynard Marquardt, Ch. Eng.
....

A. E. Nelson-Mgr.
Jorge I. Rivera
Rafael T. Carranza

Dwight Myer, Ch. Eng.
H. E. Randol, Mgr.

XEAF ... 750
XEX ... X 100
XES ... P 250
.... 1000

1000 kcs. (299.8 m.)

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

1010 kcs. (296.9 m.)

CHML F 100
CKCD F 100
CKCK F 1000
CKCO F 100
CKIC ... 50
CKWX F1 100
CMCU M2 200
KGGF M2 1000
KOW M 1000(5)
WHN ... 1000(5)
WNAD 2 1000
WNOX C 1000(5)
XEFQ ... 50
XEU ... 500

1020 kcs. (293.9 m.)

CMHO ... 200
CMJK ... 10000
KYW R 1000
WDZ D 1000
XEU ... 1000

1030 kcs. (291.1 m.)

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

1040 kcs. (288.3 m.)

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

1050 kcs. (285.5 m.)

CBA F 50000
CMCH ... 50
HIT ... 5000
KFB1 LY2 50000
KNX C 1000(5)
WEAU LZ 1000
WIBC D 1000

1060 kcs. (282.8 m.)

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

1070 kcs. (280.2 m.)

CMJW ... 200
KJBS L 500
TINBC P 5000
WCAZ D 100
WTAM R 50000

a Nogales, Son.
a Mexico City, D. F.
a Tampico, Tam.
z Pinar del Rio, Cuba

z Santiago de Cuba
z Los Angeles, Calif.
z San Jose, C. Rica
a Des Moines, Iowa
a Aguascalientes, Ags.

a Hamilton, Ont.
a Vancouver, B. C.
a Regina, Sask.
a Ottawa, Ont.
a Wolfville, N. S.
a Vancouver, B. C.
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.

z Sagua la Grande, Cuba
a Camaguey, Cuba
a Philadelphia, Pa.
a Tuscola, Ill.
a Juarez, Chih.

a Calgary, Alta.
a Rimouski, P. Q.
a Windsor, Ont.
z Santiago de Cuba
z San Jose, C. Rica
a Mexico City, D. F.
z Santiago de Cuba

a Dallas, Texas
a Portland, Ore.
a Merced, Calif.
z St. John's, Nfld.
a Hartford, Conn.
z Matanzas, Cuba

a Sackville, N. B.
z Havana, Cuba
z Trujillo, D. R.
a Abilene, Kans.
a Los Angeles, Calif.
a Eau Claire, Wis.
a Indianapolis, Ind.

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

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

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Fernando Sada
Arturo Martinez
....

Frank Burke, Mgr.
Francisco Ariel
Paul A. Loyat, Ch. Eng.
Pedro C. Rivas

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Dr. G. H. Geldert
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Jorge Garcia Serra
Hugh J. Powell
C. S. Harper, Mgr.

T. M. Beaird, Prog. Dir.
Pedro L. Diaz

Fernando Pazos S.

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Leslie W. Joy, Mgr.
Mark C. Spies, Ch. Eng.
Pedro Meneses, Jr.

E. Marshall
J. A. Brilliant

Claudio Alvarez Soriano
Guillermo Zuniga R.

John W. Runyon
Art Morey, Ann'cr.
John W. Crews, Mgr.

T. C. McCray

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A. L. Pichardo
Donald Thornburgh, Mgr.

Mary F. Loyd, Sec'y.
Gerald Cooke, Ch. Eng.
Art Thomas, Mgr.

M. Caymares Silva
Miriam Ford, Traffic Dept.
Oscar Martinez N.
....
May Draxell

1080 kcs. (277.6 m.)

CMBX ... 200
CMKM ... 200
WBT C 50000
WCBD LI 5000
WBBI LI 5000
XEBI ... 20
XEBK ... 100
XEDP ... 500

1090 kcs. (275.1 m.)

CMHA ... 200
HIN ... 100
KMOX C 50000
XERB ... 50000

1100 kcs. (272.6 m.)

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

1110 kcs. (270.1 m.)

CMCJ ... 200
KSOO LN 5000
WRVA CM 50000
XECL ... 1000

1120 kcs. (267.7 m.)

CBJ F 100
CHLP F 100
CHSJ F 100
CKOC F 500(1)
CKX F 1000
CMGF ... 200
KFIO D 100
KFSG a 1000(5)
KRKD a 1000(5)
KRSC EX 250
KTBC DG2 1000
WCOP D 500
WDEL R 250(1)
WISN C 250(1)
WJBO BX 500
WTAW G2 500

1130 kcs. (265.3 m.)

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

1140 kcs. (263 m.)

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

1150 kcs. (260.7 m.)

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

a Havana, Cuba
a Manzanillo, Cuba
a Charlotte, N. C.
a Chicago, Ill.
a Chicago, Ill.
z Guzman, Jal.
z Nuevo Laredo, Tam.
a Mexico City, D. F.

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

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

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

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

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

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

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

Alberto Alvarez
Jesus Armesto
....
A. P. Frye, Ch. Eng
Javier Velasco
J. M. Cortes
....

Abelardo Menocal
J. M. Bonetti
G. L. Tevis, Ch. Eng.
....

....
A. H. Green, Mgr.
John McCormack, Mgr.
Robert E. Study, Ch. Eng.
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....
....

Rafael Rodriguez
....
Los Frake
Alfonso A. Lacarra

....
....
Bernabe de la Torre
Arthur L. Smith, Mgr.
Ruth Pritchard
Dr. Giles N. Knight, Mgr.
Robt. E. Priebe, Mgr.
Whitman Hall
J. E. Mathiot, Ch. Eng.
D. A. Weller, Ch. Eng.
Wilbur Gelson, Eng.
H. C. Dillingham, Ch. Eng.

Gilberto Gesse Lopez
E. G. Pack; Earl J. Glade
J. L. Allabough
....
Salvador Monterrubio R.

John J. Stowers
Wm. B. Way, Mgr.
N. McFarland
Hillis W. Holt

John J. Long, Ch. Eng.
Manuel Cano M.
Luis F. Encisco
Hector Silva Canto
....
....
....

1160 kcs. (258.5 m.)

CMHJ	...	200
KEX	...	5000
WOWO	B1	10000
WWVA	C1	5000
XEAS	...	100
XED	...	2500
XEFM	...	500
KEP	...	500

1170 kcs. (256.3 m.)

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

1180 kcs. (254.1 m.)

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

1190 kcs. (252 m.)

CMKX	...	200
WOAI	EN	50000
WSAZ	L	1000

1200 kcs. (249.9 m.)

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

CKNX	...	100
CKTB	F	100
CKVD	...	100
CMCO	...	200
KADA	EMX	100
KAST	...	250
KBTM	...	100(25)
KELO	N	250
KFJB	...	250
KFXD	...	250
KFXJ	...	250
KGDE	...	100(25)
KGEK	...	100
KGFI	...	100
KGHI	...	250
KHAS	P	250
KHBC	CM	250
KMLB	...	250
KOOS	M	250
KSUN	E	250
KVCV	M	250
KVEC	M	250
KVNU	...	250
KVOS	M	250
KWBD	DP	100
KWG	BE	100
KWNO	E	250
TIRCC	...	500
WABI	C	250
WAIM	C	100
WAYX	...	250
WBAB	P	100(25)
WBBZ	M	250
WBHP	...	100
WBOW	N	250
WCAT	D	100
WCAX	C	250
WCLO	...	250
WCPO	...	250
WDLP	P	100(25)
WDSM	M	100
WENY	M	250
WEST	...	250
WESX	...	100

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.

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

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

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

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

a Wingham, Ont.
a St. Catharines, Ont.
z Val d'Or, P. Q.

a Havana, Cuba
a Ada, Okla.
a Astoria, Ore.
a Jonesboro, Ark.

a Sioux Falls, S. Dak.
a Marshalltown, Iowa
a Nampa, Idaho
a Grand Junction, Colo.

b Fergus Falls, Minn.
f Sterling, Colo.
a Los Angeles, Calif.
a Little Rock, Ark.

z Hastings, Nebr.
a Hilo, Hawaii
a Monroe, La.
a Marshfield, Ore.

a Lowell, Ariz.
a Redding, Calif.
a San Luis Obispo, Calif.
z Logan, Utah

z Bellingham, Wash.
z Plainview, Texas
a Stockton, Calif.
a Winona, Minn.

z San Jose, C. Rica
a Bangor, Maine
a Anderson, S. C.
a Waycross, Ga.

z Atlantic City, N. J.
a Ponca City, Okla.
a Huntsville, Ala.
a Terre Haute, Ind.

a Rapid City, S. Dak.
a Burlington, Vt.
a Janesville, Wis.
a Cincinnati, Ohio

z Panama City, Fla.
z Superior, Wis.
d Elmira, N. Y.
a Easton, Pa.

Richardo Ugalde
H. C. Singleton, Ch. Eng.

E. A. Hadden, Eng.
Manuel R. Rodriguez

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Enrique Artalejo
J. G. Leitch

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Dr. Geo. W. Young

Oscar Vidal Benitez
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G. Thomas Desjardins

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Enrique Lasanta
Warren Moore, Prog. Dir.
Lawrence King, Ch. Eng.

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Joseph Henkin, Mgr.
Homer Griffith, Mgr.

Edward Hurt, Mgr.
Rex Howell, Mgr.
Mat E. Wakz, Ch. Eng.

Elmer G. Beehler
Thelma Kirchner, Prog. Dir.
R. G. Terrill, Mgr.

Webley Edwards, Mgr.
J. C. Liner, Jr., Mgr.
Roger L. Spaulgh, Ch. Eng.

Carleton W. Morris, Mgr.
Harold Smithson, Mgr.
Earl Travis, Ch. Eng.

J. M. Reeder, Ch. Eng.
W. B. Dennis
George Ross, Mgr.

A. E. Mickel, Mgr.
Carlos Borge
Ralph Wallace, Mgr.
Ennis Bray, Mgr.

Jack Williams
Don Mitchell, Ch. Eng.
C. M. Rowe, Prog. Dir.
James Tierney, Ch. Eng.

Charles Brannen, Ch. Eng.
Glen A. Davis, Ch. Eng.
Fred A. Baxter
J. E. Mathiot, Ch. Eng.

WFAM	4	100
WFTC	...	250
WHBC	...	250
WHBY	E	250
WHOP	...	250
WIBX	C	250
WIL	...	250
WJBC	...	250
WJBW	X	100
WJHL	...	250
WJNO	C	250
WJRD	E	100(25)
WKBO	N	100(25)
WLVA	...	250
WMFR	...	250
WMOB	D	100
WMPC	G	250
WOLS	N	250
WRBL	C	250
WSAM	GP	100(25)
WSKB	X	100
WSOO	P	100(25)
WTHT	M	100
WTOL	...	250
WWAE	4	100
...	DP	100
...	P	250
...	P	100(25)
...	P	250

1210 kcs. (247.8 m.)

CHLT	...	100
CJCS	...	50
CJOC	F	100
CKBI	F	100
CKCH	F	100
CKMC	...	50
CKNB	F	100
CMHK	...	200
KALB	...	250
KANS	N	250
KASA	M	100
KDLR	...	250
KDON	M	250
KFJI	...	100
KFOR	EM	100(25)
KFPW	XZ	100
KFXM	M2	100
KGLO	C	250
KGY	M	100
KHBG	...	250
KIUL	...	100
KLAH	...	250
KOCA	...	250
KOVO	...	250
KPFA	EN	250
KPPC	2	100
KROY	C	100
KVSO	M	100(25)
KWAT	P	250
KWJB	...	250
KXOX	...	250
KYUM	P	100(25)
WBAX	AM	100
WBBL	5	100
WBRB	3	100
WCOL	NXZ	100
WCOU	M	250
WCOV	...	100
WCRW	4	100
WEBO	...	250
WEDC	G4	250
WFAS	3	100
WFOY	...	250
WFTM	P	250
WGBB	3	100
WGCM	...	100(25)
WGRM	Y	250
WHA1	M	250

a South Bend, Ind.
a Kinston, N. C.
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 Tuscaloosa, Ala.
a Harrisburg, Pa.
a Lynchburg, Va.
a High Point, N. C.
a Mobile, Ala.
a Lapeer, Mich.
a Florence, S. C.
a Columbus, Ga.
a Saginaw, Mich.
z McComb, Miss.
z Saul Ste. Marie, Mich.
a Hartford, Conn.
a Toledo, Ohio
a Hammond, Ind.
z Logan, W. Va.
z Orlando, Fla.
z Phoenix, Ariz.
z Roanoke Rapids, N. C.

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
James R. Doss, Jr.
Charles Myers, Ch. Eng.

J. T. Orch, Eng.
E. J. Day, Ch. Eng.
A. B. Quigley
Hollis F. Hayes, Ch. Eng.

O. Lee Stone
Oliver Hely, Ch. Eng.
Richard K. Blackburn
Michael Kent, Mgr.

Robert Myers, Ch. Eng.
Marcel Provst, Mgr.
Frank M. Squires
H. R. Carson

Gerald Prest
R. L. MacAdam
C. S. Chapman, Mgr.
R. G. Gonzalez

Virgil Evans, Prog. Dir.
Herbert Hollister, Mgr.
Lyman Brown, Prog. Dir.
Merle Bjork, Ch. Annc'r.

Howard Walters, Mgr.
Geo. Kincaid, Mgr.
Don Searle, Mgr.
Dorothy Gibson, Mgr.

J. C. Lee, Mgr.
F. C. Eighmey, Mgr.
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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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Al Thompson, Ch. Eng.

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J. R. Tate, Ch. Eng.
Caleb Frisk, Ch. Eng.
Selma Seitz, Prog. Dir.

Bradley Overton, Ch. Eng.
Harry H. Carman
C. H. Dyess, Ch. Eng.
C. A. Perkins, Ch. Eng.

James L. Spates, Mgr.
Greenfield, Mass.

WHBU	...	100(.25)
WHIZ	NX	100
WIBU	...	250
WINN	P	100(.25)
WJBY	E	250
WJEJ	X	100
WJIM	B	250
WJLS	...	250
WJMC	D	250
WJTN	B	250
WJW	...	250
WKOK	...	100
WLOK	...	100
WMFG	C	250
WOCB	P	250
WOMT	...	100
WPAX	...	250
WPID	P5	250
WRAL	M	250
WSAY	M	250
WSBC	G4	250
WSIX	M	250
WSNJ	...	250
WSOC	MN	100(.25)
WTAX	...	100
WTMA	N	250
XEAT	...	250
XEE	...	50
XEFV	...	50
XETH	...	100

1220 kcs. (245.8 m.)

KFKU	a	1000(5)
KFAC	...	500
KTMS	BE	1000
KTW	2	1000
KWSC	...	1000(5)
TIGPH	1225	1000
WCAD	D	500
WCAE	MRX	1000(5)
WDAE	CX	1000(5)
WGNV	D	250
WREN	aB	1000(5)
XEBL	...	500
XEDA	...	200
XETF	...	12

1230 kcs. (243.8 m.)

CMCB	...	200
CMJE	...	200
KGBX	N	500
KGGM	C	1000
KYA	E	1000(5)
WFBM	C	1000(5)
WNAC	R	1000(5)
WOL	M	1000
XECA	...	250
XEG	...	250
XEHK	...	125

1240 kcs. (241.8 m.)

CJCB	F	1000
CMAB	...	200
CMHB	...	200
KFJZ	M	1000
KGCU	...	250
KTFI	N	1000
WHBF	C	1000
WKAQ	B	1000
WXYZ	...	1000(5)
XEAD	...	500
XEBG	...	100
XEBU	...	50
XECW	...	250
XEDL	...	250
XEKL	A	500
XEKS	...	100
XEME	...	50

a	Anderson, Ind.
a	Zanesville, Ohio
z	Poyntette, Wis.
z	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.
z	Hyannis, Mass.
z	Manitowoc, Wis.
a	Thomasville, Ga.
z	Petersburg, Va.
z	Raleigh, N. Y.
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, Chih.
a	Durango, Dgo.
a	Juarez, Chih.
a	Puebla, Pue.

a	Lawrence, Kans.
a	Port Arthur, Texas
z	Santa Barbara, Calif.
z	Seattle, Wash.
a	Pullman, Wash.
b	San Jose, C. Rica
a	Canton, N. Y.
a	Pittsburgh, Pa.
a	Tampa, Fla.
a	Newburgh, N. Y.
z	Lawrence, Kans.
z	Mazatlan, Sin.
z	Mexico City, D. F.
a	Veracruz, Ver. C.

a	Havana, Cuba
z	Camaguey, Cuba
z	Springfield, Mo.
a	Albuquerque, N. Mex.
a	San Francisco, Calif.
a	Indianapolis, Ind.
a	Boston, Mass.
z	Washington, D. C.
z	Tampico, Tam.
z	Monterrey, N. L.
z	Guadalajara, Jal.

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.
z	Agua Calientes, Ags.
z	Morelia, Micho.
z	Chihuahua, Chih.
z	Cordoba, Ver. C.
z	Navolosa, Son.
b	Leon, Gto.
z	Saltillo, Coah.
z	Merida, Yuc.

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 Grover Criley, Mgr.
 Leo Ylha, Ch. Eng.
 Joe L. Smith, Jr.
 Walter McGenty

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 Robert Sinnett, Eng.
 A. P. Del Valle, Ch. Eng.
 Lynn Smeby, Ch. Eng.

Feliciano Lopez Islas

 P. Villamil Cisero

1250 kcs. (239.9 m.)

CMKC	...	200
KFOX	...	1000
KIT	FM	1000
KXOK	...	1000
WAIR	DM	250
WDSU	B	1000
WHBI	2	1000(2.5)
WKST	D	1000
WMRO	D	250
WNEW	2	1000(5)
WTCN	B	1000(5)
XEAI	...	500

1260 kcs. (238 m.)

CMBD	...	200
CAJO	...	200
KGVO	C	1000(5)
KHSL	M	500(1)
KOIL	CEM	1000(5)
KRGV	N	1000
KUOA	D	5000
KVOA	EN	1000
WFVA	D	250
WHIO	C	1000(5)
WHLD	DP	1000
WNBX	CMY	1000
WTOC	C	1000(5)

1270 kcs. (236.1 m.)

CMHD	...	200
KGCA	DQ2	100
KOL	M	1000(5)
KVOR	C	1000
KWLC	D2	100
WASH	aDN	500
WFRB	R	1000(5)
WJDX	R	1000(5)
WOOD	aN	500
XESM	...	100
XEXB	A	250
XEXE	...	17

1280 kcs. (234.2 m.)

CMKO	...	200
KFBF	C	1000(5)
KLS	...	250
WCAM	2	500
WCAP	2	500
WDDO	2	1000(5)
WIBA	N	1000(5)
WORC	C	500
WRR	M	500
WTNJ	2	500
XEKR	...	100
XEMX	A	100

1290 kcs. (232.4 m.)

CMCG	...	200
KDYL	R	1000(5)
KLCN	D	100
KTRH	C	1000(5)
WATR	...	250
WEBC	N	1000(5)
WJAS	C	1000(5)
WJHP	P	250
WNBZ	D	100
WNEL	...	1000(2.5)

1300 kcs. (230.6 m.)

KALE	M	1000
KFAC	...	1000
KFH	C	1000(5)
WBBR	2	1000

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.

z	Havana, Cuba
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
z	Niagara Falls, N. Y.
a	Springfield, Vt.
a	Savannah, Ga.

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	Mexico City, D. F.
a	Jalapa, Ver. C.
z	Texcoco, D. F.

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.

a	Havana, Cuba
a	Salt Lake City, Utah
a	Blytheville, Ark.
a	Houston, Texas
a	Waterbury, Conn.
a	Duluth, Minn.
a	Pittsburgh, Pa.
z	Jacksonville, Fla.
a	Sarasac Lake, N. Y.
a	San Juan, Puerto Rico

a	Portland, Ore.
a	Los Angeles, Calif.
a	Wichita, Kans.
a	Brooklyn, N. Y.

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 Max Weiner, Ch. Eng.

 Carmen Gutierrez

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 Bonifacio Ildefonso
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 Percy Root, Ch. Eng.
 Sandy Meek, Prog. Dir.

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 M. F. Chapin, Ch. Eng.

 Chas. Jordan, Prog. Dir.
 E. P. Knowles, Ch. Eng.
 Alfonso Avalos

O. Montenegro
 S. S. Fox, Mgr.
 C. L. Lintzenich, Mgr.
 B. F. Orr, Mgr.

 Chas. Persons, Ch. Eng.
 Walter McCoy, Ch. Eng.
 Carlyle Wright, Mgr.

 Juan Plaza

Dick Rand, Prog. Dir.
 E. Tyler, Log Dept.
 Russell L. Lowe, Mgr.

WEVD 2 1000
 WFBC NX 1000(5)
 WHAZ 2 1000
 WHBL 250(1)
 P 1000

1310 kcs. (228.9 m.)

CHCK 50
 CJKL 100
 CJKS 100
 CKCV 100
 CMKE 250
 KARM 250
 KBND 250
 KCKN 250
 KCRJ 100(25)
 KFPL 100(25)
 KFYD M 100
 KGEZ 100
 KGFV 250
 KHUB 250
 KMYR 100(25)
 KOCY 250
 KOME EM 250
 KPDN 100
 KRMD 250
 KRQC 250
 KRRV DMXZ 250
 KSRO 250
 KSUB 100
 KTSN N2XZ 250
 KUIN 100
 KVIC 100(25)
 KVOL 250
 KVOX 250
 KVSF 100
 KWFC 100(25)
 KWOC 250
 KWOS 250
 KXRO M 250
 TGI 250
 WAML N 250
 WBRE M 250
 WBRK M 100
 WCLL M 250
 WDAH 250
 WDMJ 250
 WEBC B 250
 WEMP 250
 WEXL 50
 WFBG 100
 WFDF 100
 WFIG 100(25)
 WGAU 250
 WGH K 250
 WGTN 250
 WHAT 100
 WJPF 100(25)
 WJPR 250
 WLAK N 250
 WLBC 250
 WLBJ 250
 WLNH M 250
 WMBO 250
 WMFF 100(25)
 WNBH MX 100(25)
 WRAW 100
 WROL N 100
 WSAJ 100
 WSAV N 100
 WSGN BE 100(25)
 WSIS CM 250
 WSOY 100(25)
 WTAL 100(25)
 WTEL 100
 WTJS 250
 WTRC 250
 XEAG 250

a New York, N. Y.
 a Greenville, S. C.
 a Troy, N. Y.
 g Sheboygan, Wis.
 z Minneapolis, Minn.
 a Charlottetown, P. E. I.
 a Kirkland Lake, Ont.
 a Yarmouth, N. S.
 a Quebec, P. Q.
 z Manzanillo, Cuba
 a Fresno, Calif.
 z 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.
 z Tulsa, Okla.
 a Pampa, Texas
 a Shreveport, La.
 a Rochester, Minn.
 a Sherman, Texas
 a Santa Rosa, Calif.
 a Cedar City, Utah
 a El Paso, Texas
 a Grants Pass, Ore.
 a Victoria, Texas
 a Lafayette, La.
 a Moorhead, Minn.
 a Santa Fe, N. Mex.
 z Hot Springs, Ark.
 a Poplar Bluff, Mo.
 a Jefferson City, Mo.
 d Aberdeen, Wash.
 a Guatemala City, Guat.
 a Laurel, Miss.
 a Wilkes-Barre, Pa.
 a Pittsfield, Mass.
 a Joliet, Ill.
 a Ashland, Ky.
 a El Paso, Texas
 a Marquette, Mich.
 a Buffalo, N. Y.
 a Milwaukee, Wis.
 a Royal Oak, Mich.
 a Altoona, Pa.
 a Flint, Mich.
 z Sumter, S. C.
 a Athens, Ga.
 a Newport News, Va.
 a Wilson, N. C.
 a Philadelphia, Pa.
 z Terrin, Ill.
 z Greenville, Miss.
 z Lakeland, Fla.
 a Muncie, Ind.
 z 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.
 a Tallahassee, Fla.
 a Philadelphia, Pa.
 a Jackson, Tenn.
 a Elkhart, Ind.
 z Cordoba, Ver. C.

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 Herbert Mayer, Ch. Eng.

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 R. L. Rose, Mgr.
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 Paul W. Holton, Eng.

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 Roy Host, Ch. Eng.
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 Roy Thompson, Eng.
 F. S. Loeb, Mgr.
 J. Samuel Brody
 A. Lynne Brannen
 Gene Stratton, Prog. Dir.
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 Herbert House, Ch. Eng.
 John Nazak, Ch. Eng.
 I. Vermilya

 L. Strunk
 Herbert Harmon, Mgr.

 Richard Kingston, Prog. Dir.

 B. C. Rummell, Ch. Eng.
 R. R. Baker, Mgr.
 Diodoro Zuniga

XEAU 250
 XEBO 25
 XEFW 300
 XETB 500
 XEX 500
 P 250

1320 kcs. (227.1 m.)

CMCR 200
 KGHF B 500
 KGM BCMZX 1000
 KID 500(1)
 KRNT 1000(5)
 WADC CX 1000(5)
 WDRK N 1000
 WSMB RX 1000(5)

1330 kcs. (225.4 m.)

KGB MX 1000
 KMO M 1000
 KRIS N 500
 KSCJ NX 1000(5)
 WDRC CX 1000(5)
 WSAI MNX 1000(5)
 WTAQ CX 1000(5)

1340 kcs. (223.7 m.)

KDTH DP 500
 KGIR EN 5000
 KGNO 250(1)
 WCOA N 500(1)
 WFEA MN 500(1)
 WFNC DP 250
 WSPD RX 1000(5)
 WPAB P 1000
 XEAP 50
 XEBJ 100
 XEBS 200
 XEBW 200
 XEDH 200
 XEFC 100
 XELW 250

1350 kcs. (222.1 m.)

CMCA 200
 KIDO N 1000(25)
 KWK BM 1000(5)
 WAWZ 2 1000
 WBNX 2 1000
 WMBG RX 500

1360 kcs. (220.4 m.)

CMJH 200
 KCRC EM 250
 KGER 1000
 KLPM 500(1)
 KSLM 500(1)
 WCSC 500(1)
 WFBL C 1000(5)
 WGES D 500(1)
 WQBC D 1000
 WSBT C2 500

1370 kcs. (218.8 m.)

CFAR 100
 CFOS 100
 CKCW F 100
 CKRN 250
 CMGE 200
 HIZ 75
 KEEN 3 100
 GELD 250
 KERN BEXZ 100

z Tijuana, B. Cfa.
 z Irapuato, Gto.
 a Tampico, Tam.
 a Torreón, Coah.
 a Monterrey, N. L.
 z Washington, D. C.

z Havana, Cuba
 a Pueblo, Colo.
 a Honolulu, Hawaii
 a Idaho Falls, Idaho
 a Des Moines, Iowa
 a Akron, Ohio
 a York, Pa.
 a New Orleans, La.

a San Diego, Calif.
 a Tacoma, Wash.
 a Corpus Christi, Tex.
 a Sioux City, Iowa
 g Hartford, Conn.
 a Cincinnati, Ohio
 a Green Bay, Wis.

z Dubuque, Iowa
 a Butte, Mont.
 b Dodge City, Kans.
 a Pensacola, Fla.
 a Manchester, N. H.
 z Fayetteville, N. C.
 a Toledo, Ohio
 z 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 Boise, Idaho
 a St. Louis, Mo.
 a Zarephath, N. J.
 a New York, N. Y.
 a Richmond, Va.

d Ciego de Avila, Cuba
 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.

a Flin Flon, Man.
 z Owen Sound, Ont.
 a Moncton, N. B.
 z Rouyn, P. Q.
 a Cardenas, Cuba
 z Trujillo, D. R.
 a Seattle, Wash.
 z El Dorado, Ark.
 a Bakersfield, Calif.

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 Aurelio G. Zaragoza

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KFGO D 100
 KFRO DXZ 250
 KFVS 250
 KGFL 4 100
 KGFL 100
 KICA 100
 KIUN 100
 KIUP 100
 KIUF 250
 KMAC 5 250
 KOBH 250
 KOKO 100
 KONO 5 250
 KORN 100(.25)
 KRE 250
 KRKO 3 50
 KRMC 250
 KTEM M 250
 KTOK EMAN 250
 KTSW M 250
 KTUC CE 250
 KUJ 100
 KVFD G 250
 KVBG 250
 KVR5 250
 KWYO 250
 WABY BM 100(.25)
 WAGF D 250
 WATL M 250
 WATW P 100
 WBLK N 250
 WBNY Z 250
 WBTH 250
 WBTH 100(.25)
 WCBM 250
 WCNC 250
 WCOS 250
 WDA5 250
 WDWS 250
 WEOA C 250
 WFOR 100
 WFTL 100(.25)
 WGBR 250
 WGL N 250
 WGRC M 250
 WHBO 100
 WHDF 250
 WHKY P 250
 WHLB C 250
 WHLS 250
 WHUB P 250
 WIBM B 250
 WISE N 250
 WJAC S 250
 WLLH MS 10-100
 WMAN D 250
 WMBR C 250
 WMFD 100(.25)
 WMGA 250
 WMIN 250
 WMSL DEX 100
 WOC C 100(.25)
 WORD P 100
 WPAY XX 100(.25)
 WPRA MN 250
 WRDO 100
 WRJN 250
 WSAU P 250
 WSLB DZ 50
 WSVS 250
 WTSP 100
 XECZ 125
 XEI 100
 XELZ P 250
 P 100(.25)
 P 100(.25)

a Boone, Iowa
 a Longview, Texas
 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 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 Sheridan, Wyo.
 a Albany, N. Y.
 a Dothan, Ala.
 a Atlanta, Ga.
 a Asheville, N. C.
 a Clarksburg, W. Va.
 a Buffalo, N. Y.
 a Williamson, W. Va.
 a Danville, Va.
 a Baltimore, Md.
 a Elizabeth City, N. C.
 a Columbia, S. C.
 a Philadelphia, Pa.
 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.
 a Jackson, Mich.
 a Asheville, N. C.
 a Johnstown, Pa.
 a Lawrence, Mass.
 a Lowell, Mass.
 a Mansfield, Ohio
 a Jacksonville, Fla.
 a Wilmington, N. C.
 a Moultrie, Ga.
 a St. Paul, Minn.
 a Decatur, Ala.
 a Davenport, Iowa
 a Spartanburg, S. C.
 a Portsmouth, Ohio
 a Mayaguez, P. R.
 a Williamsport, Pa.
 a Augusta, Maine
 a Racine, Wis.
 a Wausau, Wis.
 a Ogdensburg, N. Y.
 a Buffalo, N. Y.
 a St. Petersburg, Fla.
 a San Luis Potosi, S. L. P.
 a Morella, Micho.
 a Mexico City, D. F.
 a Kingsport, Tenn.
 a Opelika, Ala.
 a Scranton, Pa.

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 Earle Yates, Mgr.
 Chas. C. Alsop, Mgr.
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 Ray Beckner, Mgr.
 Lawrence Yates, Mgr.
 Howard Davis, Mgr.
 Robert Dean, Mgr.
 Leonard Wilson
 ugene Roth, Mgr.

 Arthur Westlund, Mgr.
 Lee Mudgett
 Frank Gillespie Prog. Dept.
 Burton Bishop, Mgr.
 Joseph Lee, Mgr.
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 Frank Howe, Mgr.
 H. E. Studebaker, Mgr.

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 Harold Smith, Mgr.
 Julian Smith, Mgr.

 Roy Albertson

 Lewis Hiland, Ch. Eng.

 Harold Davis, Prog. Dir.

 Tom M. Bryan

 Jack Gardner, Ch. Eng.

 Vernon Baumgartner
 Angus Pfaff, Mgr.
 M. L. Medley
 W. H. Dunny Prog. Dir.
 Harold H. Shoms

 Robert Donahue
 Robert Donahue

 H. B. Greene, Ch. Eng.
 Richard Dunlea
 Frank R. Pidcock

 Allen R. Richter

 Maurice L. Myers

 J. Mitchell

 H. C. Bieda

 Zeferino Z. Jimenez
 Carlos Gutierrez
 Maria Gardena de Zetina

1380 kcs. (217.3 m.)

CMCW 200
 KOH NXZ 500
 KOV 10000
 WALA CX 500(1)
 WING N 250(.5)
 WKBH C 1000
 WNBC B 1000

d Havana, Cuba
 a Reno, Nev.
 b Pittsburgh, Pa.
 a Mobile, Ala.
 a Dayton, Ohio
 a La Crosse, Wis.
 a New Britain, Conn.

A. Puente
 Merle Snider, Prog. Dir.
 J. J. Laux, Mgr.
 W. O. Pape, Mgr.

 Rogers B. Holt, Ch. Eng.

1390 kcs. (215.7 m.)

CMJC 200
 KABR 500(1)
 KLRA C 1000(5)
 KOY C 1000
 KRLC 250
 WHK KBM 1000(5)
 WQDM AD 1000
 XEM 500

z Camaguey, Cuba
 a Aberdeen, S. Dak.
 a Little Rock, Ark.
 a Phoenix, Ariz.
 a Lewiston, Idaho
 a Cleveland, Ohio
 f St. Albans, Vt.
 z Chihuahua, Chih.

Miguel Guillen Perez
 W. L. Dean, Prog. Dir.
 S. C. Vinsonhaler, Mgr.
 E. E. Alden
 Donald H. Wike, Mgr.
 E. L. Gove, Tech. Sup.

1400 kcs. (214.2 m.)

CMAR 200
 CMKR 200
 KLO B 5000
 KTUL C 5000
 TGX 2
 WARD 2 500
 WBBC 2 500
 WHDL D 250
 WIRE MR 5000
 WLTH 2 500
 WVFW 2 500
 XEA 250
 XEAX 100
 XEDE 100
 XEDS 250

z Pinar del Rio, Cuba
 z Santiago de Cuba
 a Ogden, Utah
 a Tulsa, Okla.
 d Guatemala City, Guat.
 a Brooklyn, N. Y.
 a Brooklyn, N. Y.
 a Olean, N. Y.
 a Indianapolis, Ind.
 a New York, N. Y.
 a Brooklyn, N. Y.
 z Campeche, Cam.
 z Navojos, Son.
 z Torreon, Coah.
 z Mazatan, Sin.

Jaime Nadal
 Paul R. Heitmeyer
 W. C. Gillespie
 AARon Kronenberg
 Bert Child, Prog. Dir.

 Earl Lewis, Ch. Eng.

1410 kcs. (212.5 m.)

CKFC 2 50
 CKMO 2 100
 CMCO 200
 CFJM 500(1)
 KGNC N 1000(2.5)
 KMED N 250(1)
 WAAB EM 1000
 WBCM 500(1)
 WHIS 500(1)
 WROK M 500(1)
 WSFA CE 500(1)

a Vancouver, B. C.
 a Vancouver, B. C.
 a Havana, Cuba
 a Grand Forks, N. Dak.
 a Amarillo, Texas
 b Medford, Ore.
 a Boston, Mass.
 a Bay City, Mich.
 a Bluefield, W. Va.
 a Rockford, Ill.
 a Montgomery, Ala.

....

 Andres Martinez
 Dalton Le Masurier, Mgr.
 O. L. Taylor, Mgr.

 E. A. Donaher

 Edw. L. Ketts

1420 kcs. (211.1 m.)

CBY F 100
 CHLN F 100
 CKCA F 100(.25)
 CKLN F 100
 CMJP 200
 KABC M 250
 KATE E 250
 KBPS 4 100
 KCMC M 250
 KDNT 100
 KEUB 100
 KFAM EN 250
 KFIZ E 100
 KGFF EM 250
 KGIW 3 100
 KGLU 3 250
 KIDW 3 100
 KLBW 250
 KORE M 250
 KRBC M 250
 KRBM E 250
 KRIC 250
 KRLH 100
 KSAN 250

a Toronto, Ont.
 z Three Rivers, P. Q.
 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.
 a Fond du Lac, Wis.
 a Shawnee, Okla.
 a Alamosa, Colo.
 a Safford, Ariz.
 a Lamar, Colo.
 z La Grande, Ore.
 a Eugene, Ore.
 a Abilene, Texas
 a Bozeman, Mont.
 z Beaumont, Texas
 a Midland, Texas
 a San Francisco, Calif.

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.
 Ross Porter, Mgr.
 E. L. Allen

 Sherrill Ellsworth, Mgr.
 Paul E. Walden, Ch. Eng.
 Frank Hill, Mgr.
 Max Bentley, Mgr.

 Thomas Belzel, Mgr.
 S. H. Paterson, Mgr.

KTRI	...	250
KVAK	...	100
KWAL	...	100(.25)
KWBG	X	100
KXL	4	250
WACO	CM	250
WAGM	...	100
WAOV	P	100
WAPD	NXZ	250
WAZL	...	250
WCBS	...	250
WCHV	...	250
WEED	...	250
WELL	B	100
WFMI	...	250
WGNC	...	250
WGPR	X	100
WHFC	...	250
WHMA	X	100
WILM	...	250
WJMS	...	250
WKIP	P	250
WLAP	M	100(.25)
WLEU	B	250
WLPM	P	100(.25)
WMAS	C	250
WMBC	...	250
WMBH	...	250
WMBS	...	250
WMFJ	...	250
WMSD	X	100
WNOE	...	250
WPAD	...	250
WPAR	C	100
WPRP	...	250
WSLI	...	250
WSPB	...	100(.25)
...	P	100(.25)
...	P	100
...	P	100(.25)

1430 kcs. (209.7 m.)

CJGX	F	1000
CMKZ	...	200
KGNF	D	1000
KINY	...	1000
KSO	BM	1000(5)
WBNS	C	1000(5)
WHFC	C	500(1)
WHP	C	1000(5)
WMPB	B	500(1)
WOKO	CK	500(1)
XERH	...	500

1440 kcs. (208.2 m.)

CKGB	F	100
CMBY	...	200
KDFN	...	500
KELA	M	1000
KXYZ	BM	1000
WBIG	C	1000(5)
WCBA	a	500
WMBD	C	1000(5)
WSAN	aN	500
XEFI	...	1000

1450 kcs. (206.8 m.)

CFCT	...	500
CHGS	F	50
CMHM	...	200
HRN	...	500
KCMO	...	1000(5)
KGCX	...	1000
KIEM	M	500(1)
KTBS	NZ	1000
TGQ	...	200

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.
a	Springfield, Ill.
a	Charlottesville, Va.
a	Rocky Mount, N. C.
a	Battle Creek, Mich.
a	Youngstown, Ohio
z	Gastonia, N. C.
a	Albany, Ga.
a	Cicero, Ill.
a	Anniston, Ala.
a	Wilmington, Del.
a	Ironwood, Mich.
z	Poughkeepsie, N. Y.
a	Lexington, Ky.
z	Erie, Pa.
a	Springfield, Mass.
a	Detroit, Mich.
a	Joplin, Mo.
a	Uniontown, Pa.
a	Daytona Beach, Fla.
a	Muscle Shoals City, Ala.
a	New Orleans, La.
a	Paducah, Ky.
a	Parkersburg, W. Va.
a	Ponce, Puerto Rico
a	Jackson, Miss.
a	Sarasota, Fla.
z	Martinsville, Va.
z	Marsville, Calif.
z	Valdosta, Ga.

a	Yorkton, Sask.
z	Palma Soriano, Cuba
a	North Platte, Nebr.
a	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	Havana, Cuba
a	Casper, Wyo.
a	Centralia, Wash.
a	Houston, Texas
a	Greensboro, N. C.
a	Allentown, Pa.
a	Peoria, Ill.
a	Allentown, Pa.
a	Chihuahua, Chih.

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.

Dietrich Dirks, Mgr.

....
W. B. Greenwald, Mgr.
T. W. Symons, Jr. Mgr.
James W. Pate, Mgr.
R. W. MacIntosh Mgr.

....
R. G. Patterson, Mgr.
Edward Beisel, Prog. Dir.

....
Wm. Avers Wynne

....
F. C. Todd, Mgr.

....
Edwin Mullinax

....
Winston L. Clark, Mgr.

....
E. H. Clark, Ch. Eng.

....
Chas. McClane, Eng.
W. Wright Esch

....
Julio M. Conesa
G. G. Benson, Ch. Eng.

....
A. L. Garside, Mgr.
Joaquin Venero Obregon
J. B. Eaves, Eng.
C. B. Arnold, Mgr.
Edmund Linehan, Prog. Dir.

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R. H. Thomson
Donald Hathaway
Pedro Marti, Ch. Eng.
J. Elroy McCaw, Mgr.
T. Frank Smith, Mgr.
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F. A. Giles, Tech. Dir.
Geo. G. Snyder Prog. Dir.
Feliciano Lopez Islas

....
R. T. Holman
Jose R. Feminias

....
Lee Roberts, Prog. Dir.
Milton J. Severson, Mgr.
Wm. B. Smullin Mgr.
John McCormack, Mgr.
....

RADEX

RADEX

WAGA	B	500(1)
WGAR	C	1000(5)
WHOM	...	250
WSAR	M	1000
XEF	...	100

1460 kcs. (205.4 m.)

CMKF	...	250
KSTP	RX	10000(25)
WJSV	CX	10000

1470 kcs. (204 m.)

CMCX	...	200
H18Q	1475	100
KGA	BM	5000
WLAC	...	5000

1480 kcs. (202.6 m.)

CMHX	...	200
KOMA	C	5000
WHIP	D	5000
WKBW	CM	5000

1490 kcs. (201.2 m.)

CMKQ	E	1000
KFBK	EKN	10000
WCKY	C	50000
XECH	...	250
XEDR	...	100

1500 kcs. (199.9 m.)

CJIC	F	100
CMOX	...	200
KAWM	...	100
KBIX	EM	100
KBKR	P	100(.25)
KBST	M	100
KDAL	C	100(.25)
KDB	EM	100(.25)
KDRO	...	100(.25)
KFDA	M	100
KGFI	...	100(.25)
KGKY	...	250
KNEL	D	250
KNOW	M	250
KOTN	D	100
KOVV	...	250
KPAB	...	250
KPLC	...	250
KPLT	...	250
KPO	M	250
KRNR	M	100(.25)
KROD	P	250
KSAL	XZ	100(.25)
KTOH	P	100(.25)
KUTA	N	250
KVOC	M	100
KVWC	...	250
KWEW	...	100
KXO	M	100
KYCA	P	100(.25)
KYSM	EN	250
WCNW	2	100(.25)
WDAN	...	250
WDNC	...	250
WGAL	N	250
WGIL	...	250
WGKV	N	100
WGTC	DP	250
WHBB	...	100
WJBK	...	250
WKAT	...	250
WKBB	C	250

a	Atlanta, Ga.
a	Cleveland, Ohio
a	Jersey City, N. J.
f	Fall River, Mass.
a	Juarez, Chih.

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	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.

a	Sault Ste. Marie, Ont.
a	Havana, Cuba
a	Gallup, N. Mex.
a	Muskogee, Okla.
z	Baker, Ore.
a	Big Spring, Texas
a	Duluth, Minn.
a	Santa Barbara, Calif.
z	Sedalia, Mo.
z	Amarillo, Texas
a	Brownsville, Texas
a	Scottsbluff, Nebr.
a	Brady, Texas
a	Austin, Texas
a	Pine Bluff, Ark.
a	Valley City, N. Dak.
a	Laredo, Texas
a	Lake Charles, La.
a	Paris, Texas
a	Wenatchee, Wash.
a	Roseburg, Ore.
z	El Paso, Texas
z	Salina, Kans.
z	Lihue, Hawaii
a	Salt Lake City, Utah
a	Santa Ana, Calif.
z	Vernon, Texas
a	Hobbs, N. Mex.
a	El Centro, Calif.
z	Prescott, Ariz.
a	Mankato, Minn.
a	Brooklyn, N. Y.
a	Danville, Ill.
a	Durham, N. C.
a	Lancaster, Pa.
a	Galesburg, Ill.
z	Charleston, W. Va.
z	Greenville, N. C.
a	Selma, Ala.
z	Detroit, Mich.
z	Miami Beach, Fla.
a	Dubuque, Iowa

Jess Swicegood
R. M. Pierce, Ch. Eng.
....
Gliberto Gil

Manuel J. De Gongora
Stanley Hubbard, Mgr.
Harry R. Crow; Clyde Hunt

L. Sanchez
Julio A. Garcia
A. L. Smith, Mgr.
J. T. Ward

J. Garcia R.
Haymond Ramsey
Elmer Herkner
....

Mario Abril Dumois
Howard Lane
C. H. Topmiller, Ch. Eng.
....
Modeste Ortega

J. C. Whitby
E. Chisholm
A. W. Mills
J. H. Speck, Mgr.
Louis P. Thornton
Mary V. Keneaster, Prog. Dir.
Gilbert Fawcett, Prog. Dir.
Earl Pollock, Mgr.
....

....
Fred Hammond, Ch. Eng.

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
A. E. Crockett, Mgr.
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.
Arthur Fiske
Perry W. Esten, Ch. Eng.
....

Paul Kalbfleisch, Ass't Eng.
....
Winifred Powers
Russell Bennet
L. Carlson, Eng. Dept.

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

GUATEMALA	XEBW 1340	XEBH 1480	OAXACA	Tampico
Guatemala City	XEBY 1440	XBSM 1270	Oaxaca	XBCA 1220
TGW 1530	XEM 1390	XBSW 890	XBXH 1150	XBSW 1210
TGX 1400	XEAR 1450	XCKK 1170		XBS 990
TGI 1310	XEF 1210		PUEBLA	Victoria 1340
Quezaltenango	XEFV 1210	DURANGO	Puebla	XEBJ 1340
TGQ 1450	XEF 1020	XEBP 1150	XETH 1210	VERACRUZ
	XEP 1100	XEB 1210		Cordeba 1210
HONDURAS	XEAT 1210	GUANAJUATO	SAN LUIS	XEAG 1210
Tegucigalpa	COAHUILA	Irapuato	POTOSI	XECV 1240
HRN 1450	Piedras Negras	XEBO 1210	San Luis Potosi	Jalapa
MEXICO	XBMU 890	Lea 1210	XEC 1270	XEXB 1270
Aguascalientes	XEPN 730	XEFM 1160	SINALOA	Minatitlan 1150
Aguascalientes	Sabinas	XEKL 1240	Meratlan	XEDW 1150
XEBX 940	Saltile	Silao 720	XEBL 1230	Vernera
XEAS 1100	JALISCO	Gundalajara	XEDS 1400	XETP 1230
XEAD 1240	XEDB 1480	XED 1100	SONORA	XEU 1010
XEBI 1090	XEDS 1240	XMBK 1230	Cananea	Merida
BAJA	XEDT 1240	XELW 1340	XEFQ 1010	XEFO 1240
CALIFORNIA	XEDH 1240	Guzman 1080	XEFY 1010	XEME 1240
Mexicali	XERA 940	MEXICO	XEDR 1400	XEZ 690
XEAA 750	DISTRITO	Tehuacan 1270	Hermosillo 930	MIQUELON
XEAO 640	FEDERAL	Toluca 1490	Navajon	St. Pierre 609
XECL 1110	Mexico City	MICHOACAN	XEAL 1400	FQN 609
Tijuana	XEAI 1250	Morelia	XEDL 1240	NEWFOUND-
XEAC 990	XEB 1030	XEBC 1240	Negales 990	LAND
XEAU 1310	XEBZ 810	XEB 1240	Obregon 1240	St. John's
XEBG 830	XEDA 1020	NUEVO LEON	XEP 1120	VOAC 1005
XEC 1150	XEDP 1080	Monterrey 870	XEF 1180	VOAR 950
XELO 670	XEFO 940	XEFB 870	XEK 1240	VOCM 1040
XEMO 800	XEP 1120	XEG 1230	XEL 1150	VOGY 840
XERB 1090	XEK 990	XEH 740	XELZ 1270	VONP 640
CAMPECHE	XEKB 1230	XEH 740	XEN 780	VOWE 700
Campeche	XEL 1150	XEH 740	XEQ 780	PANAMA
XEA 1400	XELZ 1270	XEH 740	XEQK 1500	Colon 640
CHIHUAHUA	XEN 780	XEH 740	XERB 890	HOK 640
Chihuahua	XEQ 780	XEH 740		
XEBU 1240	XEQK 1500	XEH 740		
	XERC 890	XEH 740		

KSAL Salina, Kansas is now on 1120, using 1000 watts daytime and 500 watts nights . . . Addresses of stations. KVAK 622½ Commercial St., Atchinson, Kansas. . . KVEC Mountain View and Hill Sts. San Luis Obispo, Calif. . . KVFD, Warden Building, Fort Dodge, Iowa. . . Following stations do verify; WHOP, KGLO, WJLS, KOME, WFIG, KVFD, KSAD. (Dick Douglas, St. Joseph, Mo.)

W's in the East: WBNX is now using 5000 watts . . . WAWZ in their veri state that they've been heard in New Zealand with their watts. . . By the way what happened to the Transcontinental B. C. system? . . . (Joseph Schwartz, Bronx, N. Y.)

WKNY in Kingston is now on the air and can be heard here. It uses 100 watts power and on 1500 kcs. (Charles Garrison, Tioga Ctr, N. Y.)

KDKA and WWSW are now using their new transmitter towers. KDKA's is 516 ft. while WWSW's is 350 ft. high. . . WMGA heard several mornings testing new transmitter. . . WHBU sends a brown ever-sharp pencil with the call letters stamped on it for 25. They verify card. . . WTMJ verify with a picture of their antenna system with insets of transmitter equipment. (C. R. Bendes, Pittsburgh, Pa. R1132)

WBEO's new call is WDMJ. The call letters mean "Daily Morning Journal" (Frank Susoreny, E. Chicago, Ind, R1421)

NORTH AMERICAN B. C. STATION BY CALL LETTERS

For power and network affiliations, see the list of stations by frequencies.

The space under the call letters may be used for logging or checking.

CBA 1050	CHGB 1200	CKCL 580	CMBL 750	CMHJ 1160	CMBG 1140
CBF 910	CHGS 1450	CKCO 1010	CMBQ 910	CMHK 1210	CMBH 1600
CBJ 1120	CHLN 1420	CKCR 1510	CMBS 1170	CMHM 1450	CMKW 1030
CBK 540	CHLP 1120	CKCV 1310	CMBX 1080	CMHO 1020	CMKX 1190
CBL 840	CHLT 1210	CKCW 1370	CMBY 1440	CMHP 1100	CMKY 960
CBM 960	CHML 1010	CKFC 1410	CMBZ 940	CMHT 920	CMKZ 1430
CBO 880	CHNC 610	CKGB 1440	CMC 1530	CMHW 680	CMOA 660
CBR 1100	CHNS 930	CKIC 1010	CMCA 1350	CMHX 1480	CMOX 1500
CBV 950	CHRC 580	CKLN 1420	CMCB 1230	CMJA 860	CMQ 780
CBY 1420	CHSJ 1120	CKLW 1030	CMCD 630	CMJC 1390	CMW 550
CFAC 930	CHWK 780	CKMC 1210	CMCF 810	CMJE 1230	CMX 880
CFAR 1370	CJAT 910	CKMO 1410	CMCG 1290	CMJF 930	CMZ 920
CFCF 600	CJBR 1030	CKNB 1210	CMCJ 1110	CMJH 1360	CM9RT 1580
CFCH 930	CJCA 730	CKNX 1200	CMCH 1050	CMJI 1130	FQN 609
CFCH 1030	CJCB 1240	CKOC 1120	CMCK 970	CMJK 1020	HIG 908
CFCO 630	CJCJ 690	CKOV 630	CMCL 730	CMJO 1260	HIN 1090
CFCT 1450	CJCS 1210	CKPC 930	CMCM 850	CMJP 1420	HIT 1050
CFCY 630	CJGX 1430	CKPR 580	CMCO 1200	CMJW 1070	HIX 800
CFGP 1200	CJIC 1500	CKRN 1370	CMCQ 1410	CMJX 660	HIZ 1370
CFJC 880	CJKL 1310	CKSO 780	CMCR 1320	CMK 720	H18Q 1470
CFLC 930	CJLS 1310	CKTB 1200	CMCU 1010	CMKC 1250	HOK 640
CFNB 550	CJOC 1210	CKUA 580	CMCW 1380	CMKD 910	HRN 1450
CFOS 1370	CJOR 600	CKVD 1200	CMCX 1470	CMKE 1310	KABC 1420
CFPL 730	CJRC 630	CKWX 1010	CMCY 590	CMKF 1460	KABR 1390
CFPR 580	CJRM 950	CKX 1120	CMGE 1370	CMKG 1000	KADA 1200
CFQC 600	CKAC 730	CKY 910	CMGF 1120	CMKL 950	KALB 1210
CFRB 690	CKBI 1210	CMAB 1240	CMGH 710	CMKM 1080	KALE 1300
CFRC 1510	CKCA 1420	CMAR 1400	CMHA 1090	CMKO 1280	KANS 1210
CFRN 960	CKCD 1010	CMBC 690	CMHB 1240	CMKQ 1490	KARK 890
CHAB 1200	CKCH 1210	CMBD 1260	CMHD 1270	CMKR 1400	KARM 1310
CHCK 1310	CKCK 1010	CMBF 1560	CMHI 830	CMKS 710	KASA 1210

KAST	1200	KFAM	1420	KFYD	1000	KGKO	570	KJR	970	KOIL	1260
KATE	1420	KFAR	610	KFVS	1370	KGKY	1500	KLAA	1210	KOIN	940
KAWM	1500	KFBB	1280	KFWB	950	KGLO	1210	KLBM	1420	KOKO	1370
KBIX	1500	KFBI	1050	KFXD	1200	KGLU	1420	KLCN	1290	KOL	1270
KBKR	1500	KFBK	1490	KFXJ	1200	KGMB	1320	KLO	1400	KOMA	1480
KBND	1310	KFDA	1500	KFXM	1210	KGNC	1410	KLPM	1360	KOME	1310
KBPS	1420	KFDM	560	KFYO	1310	KGNF	1430	KLRA	1390	KOMO	920
KBST	1500	KFDY	780	KFYR	550	KGNO	1340	KLS	1280	KONO	1370
KBTM	1200	KFEL	920	KGA	1470	KGO	790	KLUF	1370	KOOS	1200
KCKN	1310	KFEQ	680	KGB	1330	KGU	750	KLX	880	KORE	1420
KCMC	1420	KFGQ	1370	KGBU	900	KGVO	1260	KLZ	560	KORN	1370
KCMO	1450	KFH	1300	KGBX	1230	KGW	620	KMA	930	KOTN	1500
KCRC	1360	KFI	640	KGCA	1270	KGY	1210	KMAC	1370	KOVC	1500
KCRJ	1310	KFIO	1120	KGCU	1240	KHAS	1200	KMBC	950	KOVO	1210
KDAL	1500	KFIZ	1420	KGEX	1450	KHBC	1200	KMED	1410	KOWH	660
KDB	1500	KFJB	1200	KGDE	1200	KHBG	1210	KMJ	580	KOY	1390
KDFN	1440	KFJI	1210	KGDM	1100	KHJ	900	KMLB	1200	KPAB	1500
KDKA	980	KFJM	1410	KGEK	1200	KHQ	590	KMMJ	740	KPAC	1220
KDLR	1210	KFJZ	1240	KGER	1360	KHSL	1260	KMO	1330	KPDN	1310
KDNT	1420	KFKA	880	KGEZ	1310	KHUB	1310	KMOX	1090	KPFA	1210
KDON	1210	KFKU	1220	KGFF	1420	KICA	1370	KMPC	710	KPFT	1210
KDRO	1500	KFNF	890	KGFI	1500	KID	1320	KMTR	570	KPLC	1500
KDTH	1340	KFOR	1210	KGFI	1200	KIDO	1350	KMYR	1310	KPLT	1500
KDYL	1290	KFOX	1250	KGFL	1370	KIDW	1420	KNEL	1500	KPMC	1550
KECA	780	KFPL	1310	KGFW	1310	KIEM	1450	KNOW	1300	KPO	680
KEEN	1370	KFPW	1210	KGFX	630	KIEV	850	KNX	1050	KPOF	880
KELA	1440	KFPY	890	KGGF	1010	KINY	1480	KOA	830	KPPC	1210
KELD	1370	KFQD	780	KGGM	1230	KIRO	710	KOAC	550	KPQ	1500
KELO	1200	KFRC	610	KGHF	1320	KIT	1250	KOAM	790	KPRC	920
KERN	1370	KFRO	1370	KGHI	1200	KITE	1530	KOB	1180	KQV	1380
KEUB	1420	KFRU	630	KGHL	780	KIUL	1210	KOBH	1370	KQW	1010
KEX	1160	KFSO	600	KGIR	1340	KIUN	1370	KOCA	1210	KRBC	1420
KFAB	770	KFSQ	1120	KGIW	1420	KIUP	1370	KOCY	1310	KRBM	1420
KFAC	1300	KFUO	550	KGKL	1370	KJBS	1070	KOH	1380	KRE	1370

KRGV	1260	KTBS	1450	KVOL	1310	KXRO	1310	VOGY	840	WBAL	1060
KRIC	1420	KTEM	1370	KVOO	1140	KXYZ	1440	VOAC	1065	WBAP	880
KRIS	1330	KTFI	1240	KVOR	1270	KYA	1230	VOAR	950	WBAX	1210
KRKD	1120	KTHS	1060	KVOS	1200	KYCA	1500	VOWR	700	WBBC	1400
KRKO	1370	KTKC	890	KVOX	1310	KYOS	1040	WAAB	1410	WBBB	1210
KRLC	1390	KTMS	1220	KVRS	1370	KYSM	1500	WAAF	920	WBBM	770
KRLD	1040	KTOH	1500	KVSF	1310	KYUM	1210	WAAT	940	WBBR	1300
KRLH	1420	KTOK	1370	KVSO	1210	KYW	1020	WABC	860	WBBZ	1200
KRMC	1370	KTRB	740	KVWC	1500	TGQ	1450	WABI	1200	WBCM	1410
KRMD	1310	KTRH	1290	KWAL	1420	TGW	1520	WABY	1370	WBEN	900
KRNR	1500	KTRI	1420	KWAT	1210	TGX	1400	WACO	1420	WBHP	1200
KRNT	1320	KTSA	550	KWBD	1200	TGI	1310	WADC	1320	WBIG	1440
KROC	1310	KTSM	1310	KWBG	1420	TIAFB	900	WAGA	1450	WBIL	1100
KROD	1500	KTSW	1370	KWEW	1500	TIEMC	860	WAGF	1370	WBK	1370
KROW	930	KTUC	1370	KWFC	1310	TIEP	830	WAGM	1420	WBNS	1430
KROY	1210	KTUL	1400	KWFT	620	TIFA	1000	WAIM	1200	WBNI	1350
KRRV	1310	KTW	1220	KWG	1200	TIGH	690	WAIR	1250	WBNI	1370
KRSC	1120	KUIN	1310	KWJB	1210	TIGPH	605	WALA	1380	WBOQ	860
KSAC	580	KUJ	1370	KWJJ	1040	TIGPH2	1225	WAML	1310	WBOV	1200
KSAL	1500	KUOA	1260	KWK	1350	TIHO	1030	WAOV	1420	WBRB	1210
KSAN	1420	KUSD	890	KWKH	1100	TILJ	775	WAPI	1140	WBRC	930
KSCJ	1330	KUTA	1500	KWLC	1270	TILS	880	WAPQ	1420	WBRE	1310
KSD	550	KVAK	1420	KWLK	780	TINBC	1070	WARD	1400	WBRE	1310
KSEI	900	KVAN	880	KWNO	1200	TING	750	WASH	1270	WBRY	1530
KSFO	560	KVCV	1200	KWOC	1310	TIOS	940	WATL	1370	WBT	1080
KSL	1130	KVEC	1200	KWOS	1310	TIPG	625	WATR	1290	WBTH	1370
KSLM	1360	KVFD	1370	KWSC	1220	TIRCC	1200	WATW	1370	WBTH	1370
KSO	1430	KVGB	1370	KWTO	560	TIRS	920	WAVE	940	WBZ	990
KSOO	1110	KVI	570	KWYO	1370	TIXD	800	WAWZ	1350	WBZA	990
KSRO	1310	KVIC	1310	KXA	760	TI4NRH	725	WAYX	1200	WCAD	1220
KSTP	1460	KVNU	1200	KXL	1420	TI5CV	575	WAZL	1420	WCAE	1220
KSUB	1310	KVOA	1260	KXO	1500	VAS	683	WBAA	890	WCAL	760
KSUN	1200	KVOD	630	KXOK	1250	VOCM	1040	WBAB	1200	WCAM	1280
KTAR	620	KVOE	1500	KXOX	1210	VONF	640	WBAL	780	WCAO	600

WCAP 1280	WDAH 1310	WESG 850	WGBI 880	WHBY 1200	WIL 1200
WCAR 1100	WDAN 1500	WEST 1200	WGBR 1370	WHDF 1370	WILL 580
WCAT 1200	WDAS 1370	WESX 1200	WGCM 1210	WHDH 830	WILM 1420
WCAU 1170	WDAY 940	WEVD 1310	WGES 1360	WHDL 1400	WIND 560
WCAX 1200	WDBJ 930	WEW 760	WGH 1310	WHEB 740	WING 1380
WCAZ 1070	WDBO 580	WEXL 1310	WGIL 1500	WHEC 1430	WINN 1210
WCBA 1440	WDEL 1120	WFAA 800	WGKY 1500	WHFC 1420	WINS 1180
WCBD 1080	WDEV 550	WFAM 1200	WGL 1370	WHIO 1260	WIOD 610
WCBM 1370	WDGY 1180	WFAS 1210	WGN 720	WHIP 1480	WIP 610
WCBS 1420	WDLF 1200	WFBC 1300	WGNC 1420	WHIS 1410	WIRE 1400
WCCO 810	WDMJ 1310	WFBG 1310	WGNY 1220	WHIZ 1210	WIS 560
WCFL 970	WDNC 1500	WFBF 1360	WGPC 1420	WHJB 620	WISE 1370
WCHS 580	WDOD 1280	WFBM 1230	WGR 550	WHK 1390	WISN 1120
WCHV 1420	WDRC 1330	WFBR 1270	WGRC 1370	WHKC 640	WJAC 1370
WCKY 1490	WDSM 1200	WFDF 1310	WGRM 1210	WHKY 1370	WJAG 1060
WCLE 610	WDSU 1250	WFEA 1340	WGST 890	WHLB 1370	WJAR 890
WCLO 1200	WDWS 1370	WFIG 1310	WGTC 1500	WHLD 1260	WJAS 1290
WCLS 1310	WDZ 1020	WFIL 560	WGTM 1310	WHLS 1370	WJAX 900
WCMJ 1310	WEAF 660	WFLA 620	WGY 790	WHMA 1420	WJBC 1200
WCNC 1370	WEAN 780	WFMD 900	WHA 940	WHN 1010	WJBK 1500
WCNW 1500	WEAU 1050	WFMJ 1420	WHAL 950	WHO 1000	WJBO 1120
WCOA 1340	WEBC 1290	WFNC 1340	WHAI 1210	WHOM 1450	WJBY 1210
WCOC 880	WEBQ 1210	WFOR 1370	WHAM 1150	WHOP 1200	WJBW 1200
WCOL 1210	WEBR 1310	WFOY 1210	WHAS 820	WHP 1430	WJDX 1270
WCOP 1120	WEDC 1210	WFTC 1200	WHAT 1310	WHUB 1370	WJEJ 1210
WCOS 1370	WEED 1420	WFTL 1370	WHAZ 1300	WIBA 1280	WJHL 1200
WCOU 1210	WEEI 590	WFTM 1210	WHB 860	WIBC 1050	WJHP 1290
WCOV 1210	WEEU 830	WFVA 1260	WHBB 1500	WIBG 970	WJIM 1210
WCPO 1200	WELI 930	WGAL 1500	WHBC 1200	WIBM 1370	WTIC 1040
WCRW 1210	WELL 1420	WGAN 640	WHBF 1240	WIBU 1210	WTJS 1310
WCSC 1360	WEMP 1310	WGAR 1450	WHBI 1250	WIBW 580	WTMA 1210
WCSH 940	WENR 870	WGAU 1310	WHBL 1300	WIBX 1200	WTMC 1500
WDAE 1220	WENY 1200	WGBB 1210	WHBQ 1370	WICA 940	WTMJ 620
WDAF 610	WEOA 1370	WGBF 630	WHBU 1210	WICC 600	WTMV 1500

WJJD 1130	WLAW 680	WMFD 1370	WOI 640	WQDM 1390	WSJS 1310
WJLS 1210	WLB 760	WMFF 1310	WOKO 1430	WQXR 1550	WSKB 1200
WJMC 1210	WLBC 1310	WMFG 1210	WOL 1230	WRAK 1370	WSLB 1370
WJMS 1420	WLBJ 1310	WMFJ 1420	WOLF 1500	WRAL 1210	WSLI 1420
WJNO 1200	WLBL 900	WMFR 1200	WOLS 1200	WRAW 1310	WSM 650
WJPF 1310	WLBZ 620	WMGA 1370	WOMI 1500	WRBL 1200	WSMB 1320
WJPR 1310	WLEU 1420	WMIN 1370	WOMT 1210	WRC 950	WSNJ 1210
WJR 750	WLLH 1370	WMJM 1500	WOCB 1210	WRDO 1370	WSOC 1210
WJRD 1200	WLLH 1370	WMMN 890	WOPI 1500	WRDW 1500	WSOO 1200
WJSV 1460	WLNH 1310	WMOB 1200	WOR 710	WREC 600	WSOY 1310
WJTN 1210	WLOK 1210	WMOG 1500	WORC 1280	WREN 1220	WSPA 920
WJW 1210	WLPM 1420	WMPC 1200	WORD 1370	WRGA 1500	WSPB 1420
WJZ 760	WLS 870	WMP5 1430	WORK 1320	WRJN 1370	WSPD 1340
WKAQ 1240	WLTH 1400	WMRO 1250	WORL 920	WRNL 880	WSPR 1140
WKAR 850	WLVA 1200	WMSD 1420	WOSU 570	WROK 1410	WSTP 1500
WKAT 1500	WLW 700	WMSL 1370	WOV 1130	WRR 1280	WSUI 880
WKBB 1500	WMAL 630	WMT 600	WOW 590	WRTD 1500	WSUN 620
WKBH 1380	WMAM 570	WNAC 1230	WOWO 1160	WRUF 830	WSVA 550
WKBN 570	WMAN 1370	WNAD 1010	WPAB 1340	WRVA 1110	WSVS 1370
WKBO 1200	WMAQ 670	WNAX 570	WPAD 1420	WSAI 1330	WSYB 1500
WKBY 1500	WMAS 1420	WNBC 1380	WPAR 1420	WSAJ 1310	WSYR 570
WKBW 1480	WMAZ 1180	WNB 1500	WPAX 1210	WSAM 1200	WSYU 570
WKBZ 1500	WMBC 1420	WNBH 1310	WPAY 1370	WSAN 1440	WTAD 900
WKEU 1500	WMBD 1440	WNBX 1260	WPEN 920	WSAR 1450	WTAG 580
WKIP 1420	WMBF 610	WNBZ 1290	WPG 1100	WSAU 1370	WTAL 1310
WKNY 1500	WMBG 1350	WNEL 1290	WPIC 780	WSAY 1310	WTAM 1070
WKOK 1210	WMBH 1420	WNEW 1250	WPID 1210	WSAY 1210	WTAQ 1330
WKRC 550	WMBI 1080	WNLC 1500	WPRA 1370	WSAZ 1190	WTAR 780
WKST 1250	WMBO 1310	WNOE 1420	WPRO 630	WSB 740	WTAW 1120
WKY 900	WMBR 1370	WNOX 1010	WPRP 1420	WSBC 1210	WTAX 1210
WKZO 590	WMBS 1420	WNYC 810	WPTF 680	WSBT 1360	WTBO 800
WLAC 1470	WMC 780	WOAI 1190	WQAM 560	WSFA 1410	WTCN 1250
WLAK 1310	WMCA 570	WOC 1370	WQAN 880	WSGN 1310	WTEL 1310
WLAP 1420	WMEX 1500	WOCB 1210	WQBC 1360	WSIX 1210	WTHT 1200

WTNJ 1280	XEAF 990	XEBO 1310	XEDR 1490	KEK 990	XERB 1090
WTOC 1260	XEAG 1310	XEBP 1150	XEDS 1400	KEKL 1240	XERC 830
WTOL 1200	XEAI 1250	XEBS 1340	XEDW 1150	KEKR 1280	XERH 1430
WTRC 1310	XEAJ 1400	XEBU 1240	XEE 1210	KEKS 1240	XES 990
WTRY 950	XEAM 750	XEBW 1340	XEF 1450	XEL 1150	XESM 1270
WTSP 1370	XEAO 660	XEBX 640	XEFB 870	XELO 670	XET 690
WVFW 1400	XEAP 1340	XEBZ 810	XEFC 1340	XELW 1340	XETB 1310
WWAE 1200	XEAS 1160	XEC 1150	XEFE 980	XELZ 1370	XETH 1210
WWJ 920	XEAT 1210	XECA 1230	XEFI 1440	XEM 1390	XEU 1010
WWL 850	XEAU 1310	XECH 1490	XEFM 1160	XEME 1240	XEW 890
WWNC 570	XEAW 960	XECL 1110	XEFO 940	XEMO 860	XEWE 720
WWRL 1500	XEB 1030	XECW 1240	XEPQ 1010	XEMU 580	XEX 1310
WWSW 1500	XEBA 1080	XECZ 1370	XEFV 1210	XEMX 1280	XEXB 1270
WWVA 1160	XEBC 1240	XED 1160	XEFW 1310	XEN 780	XEXE 1270
WXYZ 1240	XEBG 820	XEDA 1220	XEG 1230	XENT 910	XEXH 1150
W8XO 700	XEBH 930	XEDE 1400	XEH 740	XEP 1160	XEXX 1170
XEA 1400	XEBI 1000	XEDF 810	XEHK 1230	XEPN 730	XEZ 630
XEAA 750	XEBJ 1340	XEDH 1340	XEI 1370	XEQ 730	YSS 640
XEAC 980	XEBK 1080	XEDL 1240	XEJ 1020	XEQK 1500	ZNS
XEAD 1240	XEBL 1220	XEDP 1080	XEJP 1130	XERA 840	

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.

The Radex Publishing Co., Emerson, New Jersey

WSKB begins at 7 A. M. WENY on Sunday till 2 A. M. . . . WDSM on Sunday till 2 A. M. . . . WMRO tests on Wednesday from 2 to 2:30. (Art, Parfit, Cleveland, Ohio).

WBT sends an attractive card of Ivory with large blue letters and printing. . . . WCFL is a white card with large green call letters, green border and black print. . . . WHAM is an Ivory card with large blue call letters. . . . WLAC sends a white card with a picture of mail control room and view of studios. . . . WSB sends a verie stamp showing an Owl sitting on a half moon. (Edward Laudansky, Dorchester(Mass.))

WKY on 900 kcs. sends out veries, comes on at 7 A. M. and off at 1 A. M. (Ernest R. Forrest, Oklahoma City, Okla.)

WNBZ on 1290 kcs. was heard poorly on their program dedicated to the Va. Chapter of the Radex club. (James O. Weaver, Elkhart, Ind.)

WELI, WPEN sign off at 12 midnight. WOV, 5 kw, on from 7 A. M. to 12 midnight. (Henry Bennett, Collingswood, N. J. R 1342)

headphones. Because . . . speaker may be used separately or together.

Adapter with Trimm Featherweight Headphones—

\$13.50

Adapter with Trimm Dependable Headphones—

\$5.95

Adapter with Acme Deluxe Headphones—

\$4.40

WJTN now use 250 watt power and Hotel Jamestown. (Edward F. Shirley, Jamestown, N. Y. R615)

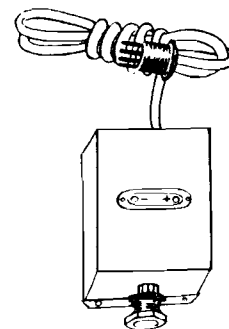
WSAY Rocehster, N. Y. became the 118th station in the Mutual Broadcasting Systems network on February 1st.

. . . WRTD Richmond, has changed their frequency from 1500 kcs. to 590 kcs. the power was increased from 250 watts to 1000 watts. (Lee Grossman, Rochester, N. Y.)

Here is some information about New Orleans radio stations; WJBW now has full time, 8 A. M. to 1 A. M. EST. WSMB now has 5,000 watts unlimited, WWL signs on at 6 A. M. and leave sthe air at 1 A. M. EST. and WDSU has the same schedule as WJBW. (William A. Floves, New Orleans, La.)

WTSP heard on 1370 kcs. with a frequency check program, fine signal R 7-9 plus, heard from 3 A. M. EST. until 4:30 A. M. EST. (Allen G. Ver-rill Brockton, Mass. R968)

WBTH is very glad to hear from listeners and sends form letter, of verification. Radex listaphones.



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

We pay the postage.

THE RADEX PUBLISHING CO., Emerson, New Jersey

Selected Back Numbers

The Oceania Broadcasting Stations, Sept. '38.

Tuning South Pacific Stations, Tuning South Americans, and a list of South American Broadcasting Stations, Oct. '38.

Dialing the Europeans, Nov. '38.

Dialing the Asiatics, Dec. '38.

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

Stations of France and Norway, March '39.

Stations of New Zealand, April '39.

Television is Here, list of Television Stations, the stations of Colombia, China and Venezuela, Midsummer '39.

Stations of Costa Rica and Venezuela, Sept. '39.

The World's Broadcasting Stations, Sept. '39.

These past issues are still available at the regular price of 25c each or five for a dollar.

XEAC	980	XEBK	1080	XEDL	1240	XEJ	1020	XEQK	1500	ZNS
XEAD	1240	XEBL	1220	XEDP	1080	XEJP	1130	XERA	840	

TIME CONVERTER

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You Can't Get Along Without It.

The Radex Publishing Co., Emerson, New Jersey

GET MORE DX WITH HEADPHONES



WE recommend the famous Trimm line of headphones for DX success. They are precision-built, and combine ultra-sensitivity with rugged construction.

The Trimm "Featherweights" weigh but $4\frac{1}{4}$ ounces complete. 24,000 ohms.\$8.50

Trimm "Professional." 4000 ohms. 4.00

Trimm "Dependable." 2000 ohms. 3.25

PHONE ADAPTERS for QUIET RADIO

Do you listen in late at night while others are sleeping? Does your town require you to turn your radio down at a certain hour? If you are an apartment dweller, or a DXer, or if there is more than one radio in your home, equip your set with headphones and win the gratitude of your family and your neighbors.

We offer two phone adapters which will permit the use of headphones with your radio. They can be used with any radio set, regardless of make, and are fully guaranteed. They are easily installed. When ordering, be sure to give a list of the tubes used in your receiver.

TRIMM

Quiet Radio Attachment

This kit, including adapter and headphones, is made by the makers of the famous "Trimm" headphones. Headset and loudspeaker may be used separately or together.

Adapter with Trimm Featherweight Headphones—

\$13.50

Adapter with Trimm Dependable Headphones—

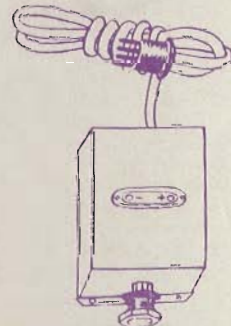
\$5.95

Adapter with Acme Deluxe Headphones—

\$4.40

THE PERFECT PHONE ADAPTER

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



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We pay the postage.

THE RADEX PUBLISHING CO., Emerson, New Jersey

Be a RADIO Technician

Learn at Home to Make \$30, \$40, \$50 a Week

Radio is a young, growing field with a future. It offers you many good pay spare time and full time job opportunities. And you don't have to give up your present job, go away from home, or spend a lot of money to become a Radio Technician. I train you right at home in your spare time.

Many Radio Technicians Make \$30, \$40, \$50 a Week

Radio broadcasting stations employ engineers, operators, technicians and pay well for trained men. Radio manufacturers employ testers, inspectors, foremen, servicemen in goodpay jobs with opportunities for advancement. Radio jobbers and dealers employ installation and servicemen. Many Radio Technicians open their own Radio sales and repair businesses and make \$30, \$40, \$50 a week. Others hold their regular job and make \$5 to \$10 a week fixing Radios in spare time. Automobile, police, aviation, commercial Radio; loudspeaker systems, electronic devices, are newer fields offering good opportunities to qualified men. Television promises to open many good jobs soon.

Many Make \$5 to \$10 a Week Extra in Spare Time While Learning

The day you enroll I start sending Extra Money Job Sheets which start showing you how to do Radio repair jobs. Throughout your course I send plans and directions that made good spare time money—\$200 to \$500—for hundreds, while learning. I send you special Radio equipment to conduct experiments and build circuits. This 50-50 method of training—with printed texts and conducting experiments—makes learning at home interesting, fascinating, practical.

I Also Give You a Professional Servicing Instrument

You get the type of instrument successful Radio Technicians use—an All-Wave Set Servicing Instrument. It contains everything necessary to measure A.C. and D.C. voltages and current; to check resistances, adjust and align any set, old or new. It satisfies your needs for professional servicing after you graduate—can help you make extra money fixing sets while learning.



You Are Trained for Television

With N.R.I. you learn Television principles right along with Radio principles—the correct method—since Television receivers combine both sight and sound. You also get more than ten text books devoted entirely to Television.

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Act Today. Mail the coupon now for Sample Lesson (Radio Receiver Troubles; Their Cause and Remedy) and 64-page book. They're free. They point out Radio's spare time and full time opportunities and those coming in Television; tell about my course in Radio and Television; show you letters from men I trained, telling what they are doing and earning. Read my Money Back Agreement. Find out what Radio offers YOU! MAIL COUPON in an envelope, or paste on a postcard—NOW!

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Dept. OEO
Washington, D. C.**

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