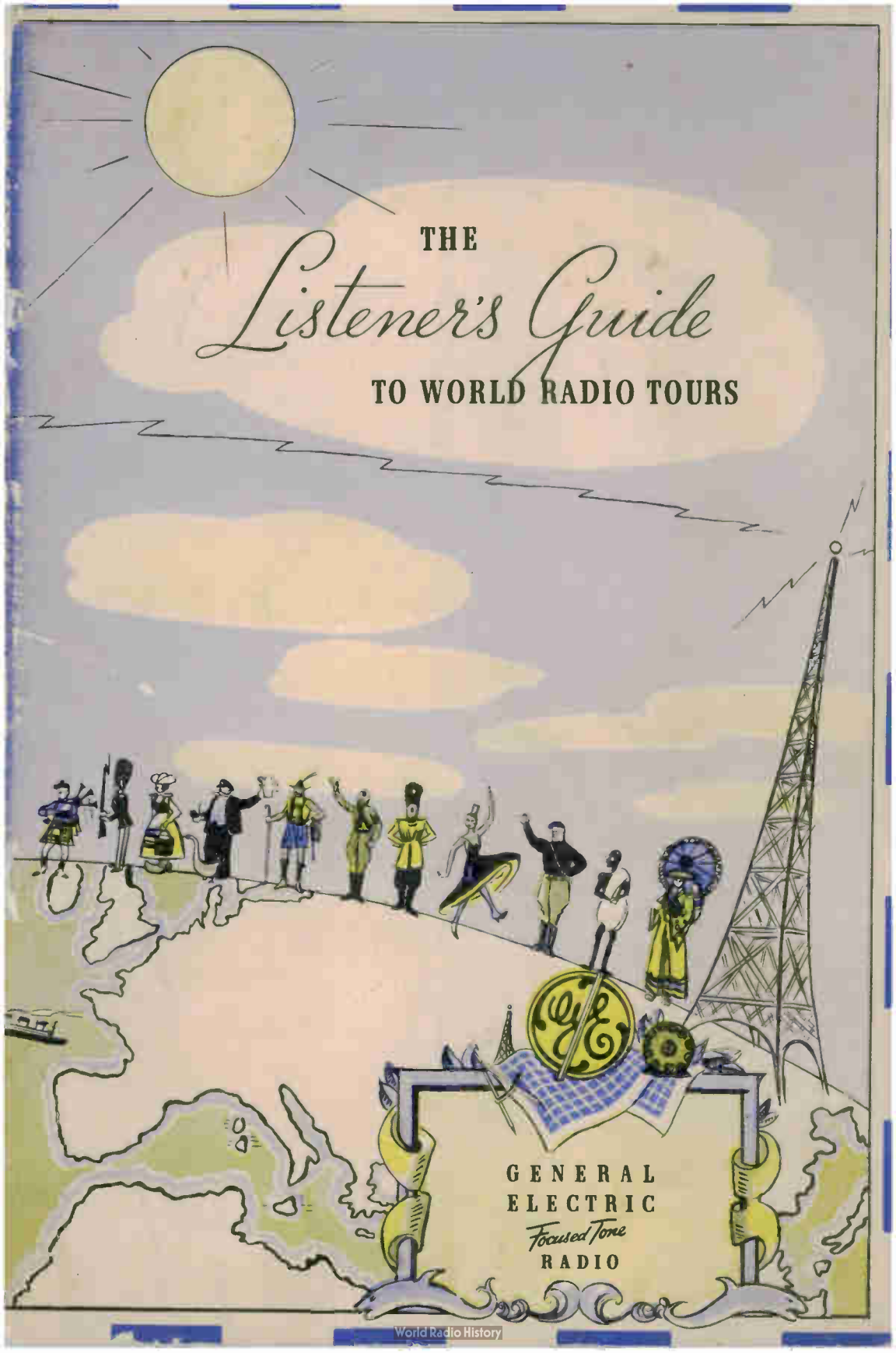

General Electric Radio

LISTENER'S GUIDE

This book has been compiled to give you a ready reference to the many fine radio broadcasting services which fill the air and which you should not miss.

It tells you *where* and *when* to tune for world radio tours that open up gate-ways of new adventure and thrills.

In addition, there is an index to the principal broadcasting stations of the United States and Canada. This Listener's Guide contains other interesting information which will enable you to enjoy the utmost pleasure from your radio.

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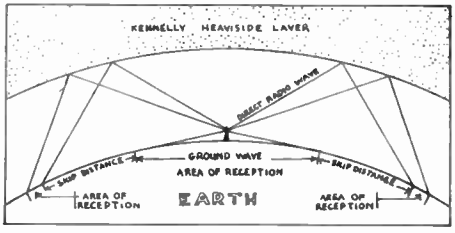
Appliance and Merchandise Department, Bridgeport, Connecticut

IN THE REALM OF RADIO

KILOCYCLES, MEGACYCLES AND METERS

Radio signals like light waves travel at the speed of 186,000 miles per.second. In the world of radio this means a speed equal to about 300,000,000 meters per second—a meter being a little longer than a yard. When a broadcasting station receives a license to "go on the air" it is assigned a definite wavelength or frequency. The number of radio impulses or waves sent out per second is the station's frequency. The distance between these successive impulses as they travel from the transmitter is the station's wavelength. "Kilo" means a thousand. Therefore, kilocycle means a thousand waves or cycles, a second. The term "kilocycle" rather than "wavelength" has become the accepted standard for designating a station's frequency. For example, WEAF is licensed to broadcast at the rate of 660,000 cycles per second or 660 "kilocycles."



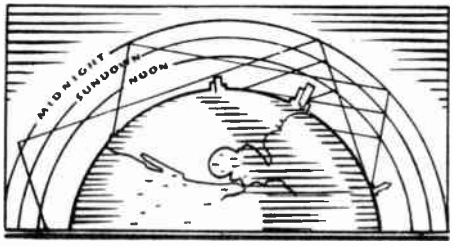
The "kilocycle" listing is a simple and quick guide to station selection. Some people, on the other hand, are accustomed to identifying a station by its "wavelength." A station's wavelength is the fixed speed at which radio waves travel (in meters per second) divided by the number of waves per second. In the case of WEAF, this would be 300,000,000 ÷ 660,000 = 454.3. Thus WEAF is identified by its rating of 454.3 "meters" or 660 "kilocycles." Frequencies higher than one million cycles are usually designated as "megacycles." "Mega" means a million. Station VK3ME, Melbourne, Australia, which is licensed to send out signals at the rate of 9,510,000 cycles per second, is listed as 9.51 "megacycles." A signal of this frequency has a wavelength of 31.5 meters. The Sliding-rule Tuning Scale of the General Electric Focused-Tone receiver is marked in "kilocycles" for the lower frequencies and in "megacycles" for the higher frequencies. To further simplify tuning, the important short-wave channels are also indicated in meters, i.e., 13, 16, 19, 25, 31, 41, and 49 meters.

Behavior of Short Waves

When short waves leave the station antenna they travel in all directions. That portion which travels close to the ground is called the ground wave. This wave is soon absorbed by buildings, metal deposits and natural screens. Other waves start off toward the sky at angles determined by the design of the antenna and the frequency of the transmitter. They travel in a straight line until, at a point probably 75 to 125 miles up in the air, they encounter that region known as the Kennelly-Heaviside layer. This layer acts somewhat like a reflector and turns the wave back toward the earth. As a result, the waves which started away from the ground finally come back to the earth's surface many hundreds of miles from their starting point. The distance between the terminus of the ground wave and the point of the reflected wave's return to the earth is called the "skip distance" and in this area it is not possible to hear the station with any degree of reliability. This explains why a short-wave station of relatively low power is often heard with good volume several thousands of miles away, whereas its signal may be completely missing only fifty miles or so from the transmitter.

The Kennelly-Heaviside Layer

The height of the Kennelly-Heaviside layer varies with the time of day and the season. Because of this, the signals change in strength as the hours pass from daylight to darkness. To overcome this objection, radio engineers have worked out charts which give the best wavelength to use at every hour of the day, and these charts are followed closely in selecting the frequency best suited for any particular broadcasting schedule.



Broadcasting Stations of the United States

ARRANGED BY STATES AND CITIES
WITH CALL LETTERS, POWER AND FREQUENCY

(Stations rated at 250 watts and up)

City	Call Letters	Watts	Frequency in Kilocycles
ALABAMA			
Birmingham	WAPI	5000	1140 (R or B)
Birmingham	WBRC	1000	930 (C)
Dothan	WAGF	250	1370
Mobile	WALA	500	1380 (C)
Montgomery	WSFA	500	1410 (C)
ARIZONA			
Phoenix	KOY	500	1390
Phoenix	KTAR	1000	620 (R or B)
Tucson	KVOA	500	1260
ARKANSAS			
Fayetteville	KUOA	1000	1260
Hot Springs	KTHS	10,000	1040 (R or B)
Little Rock	KARK	250	890
Little Rock	KLRA	1000	1390 (C)
CALIFORNIA			
Bakers Field	W6XA1	1000	1550
Beverly Hills	KMPC	500	710
Burbank	KELW	500	780
Chico	KHSL	250	950
Eureka	KIEM	500	1450
Fresno	KMJ	1000	580
Glendale	KIEV	250	850
Hollywood	KFWB	1000	950
Hollywood	KMTR	1000	570
Hollywood	KNX	50,000	1050
Long Beach	KFOX	1000	1250
Long Beach	KGER	1000	1360
Los Angeles	KECA	1000	1430 (R or B)
Los Angeles	KFAC	1000	1300
Los Angeles	KFI	50,000	640 (R or B)
Los Angeles	KFSG	500	1120
Los Angeles	KFVD	250	1000
Los Angeles	KHJ	1000	900 (C)
Los Angeles	KNX	50,000	1050
Los Angeles	KRKD	500	1120
Los Angeles	KTM	500	780
Modesto	KTRB	250	740
Oakland	KLS	250	1440
Oakland	KLX	1000	880
Oakland	KROW	1000	930
Sacramento	KFBK	5000	1490 (C)
San Diego	KFSD	1000	600 (R or B)
San Diego	KGB	1000	1330 (C)
San Francisco	KFRC	1000	610 (C)
San Francisco	KGO	7500	790 (R or B)
San Francisco	KJBS	500	1070
San Francisco	KPO	50,000	680 (R or B)
San Francisco	KSFO	1000	560
San Francisco	KYA	1000	1230 (R or B)
San Jose	KQW	1000	1010
Stockton	KGDM	1000	1100
COLORADO			
Colorado Springs	KVOR	1000	1270 (C)
Denver	KFEL	500	920
Denver	KLZ	1000	560 (C)
Denver	KOA	50,000	830 (R or B)
Denver	KPOF	500	880
Denver	KVOD	500	920
Greeley	KFKA	500	880
Pueblo	KGHF	500	1320
CONNECTICUT			
Bridgeport	WICC	500	600 (C)
Hartford	WDRC	1000	1300 (C)
Hartford	WTIC	50,000	1040 (R)
New Britain	WNBC	250	1380
New Haven	WELI	500	900
Waterbury	WIXBS	1000	1530
DELAWARE			
Wilmington	WDEL	250	1120
DISTRICT OF COLUMBIA			
Washington	WJSV	10,000	1460 (C)
Washington	WMAL	250	630 (B)
Washington	WRC	500	950 (R)
FLORIDA			
Clearwater	WFLA	1000	620 (R or B)
Gainesville	WRUF	5000	830
Jacksonville	WJAX	1000	900 (R or B)
Miami	WIOD	1000	1300 (R or B)
Miami	WQAM	1000	560 (C)
Orlando	WDBO	250	580 (C)
Pensacola	WCOA	500	1340 (C)
St. Petersburg	WSUN	1000	620 (R or B)
Tampa	WDAE	1000	1220 (C)
GEORGIA			
Athens	WTFI	500	1450
Atlanta	WGST	500	890 (C)
Atlanta	WSB	50,000	740 (R or B)
Macon	WMAZ	1000	1180
Savannah	WTOC	1000	1260 (C)
IDAHO			
Boise	KIDO	1000	1350
Idaho Falls	KID	250	1320
Pocatello	KSEI	250	900
Twin Falls	KTFI	500	1240
ILLINOIS			
Chicago	WAAF	500	920
Chicago	WBBM	50,000	770 (C)
Chicago	WCFL	5000	970 (B)
Chicago	WENR	50,000	870 (R or B)
Chicago	WGES	500	1360
Chicago	WGN	50,000	720 (M)
Chicago	WJJD	20,000	1130
Chicago	WLS	50,000	870 (R or B)
Chicago	WMAQ	50,000	670 (R or B)
Chicago	WMBI	5000	1080
Peoria	WMBD	500	1440 (C)
Quincy	WTAD	500	900
Rockford	WROK	500	1410
Tuscola	WDZ	250	1020
Urbana	WILL	250	890
Waukegan	WCBD	5000	1080
INDIANA			
Evansville	WGBF	500	630
Fort Wayne	WOWO	10,000	1160 (C)
Gary	WIND	1000	560
Indianapolis	WFBM	1000	1230 (C)
Indianapolis	WIRE	500	1400 (R)
South Bend	WSBT	500	1360 (C)
West Lafayette	WBAA	500	890
IOWA			
Ames	WOI	5000	640
Cedar Rapids	WMT	500	600 (B)
Council Bluffs	KOIL	1000	1260 (B)
Des Moines	KRNT	500	1320 (C)
Des Moines	KSO	500	1430 (B)
Des Moines	WHO	50,000	1000 (R)
Iowa City	WSUI	500	880
Shenandoah	KFNF	500	890
Shenandoah	KMA	1000	930
Sioux City	KSCJ	1000	1330 (C)
KANSAS			
Abilene	KFBI	5000	1050
Coffeyville	KGGF	1000	1010
Dodge City	KGNO	250	1340
Lawrence	KFKU	1000	1220
Lawrence	WREN	1000	1220 (B)
Manhattan	KSAC	500	580
Topeka	WIBW	1000	580 (C)
Wichita	KFH	1000	1300 (C)

Broadcasting Stations of the United States

(CONTINUED)

City	Call Letters	Watts	Frequency in Kilocycles
KENTUCKY			
Covington	WCKY	5000	1490 (B)
Louisville	WAVE	1000	940 (R or B)
Louisville	WHAS	50,000	820 (C)
LOUISIANA			
New Orleans	WDSU	1000	1250
New Orleans	WSMB	500	1320 (R or B)
New Orleans	WWL	10,000	850 (C)
Shreveport	KTBS	1000	1450 (R or B)
Shreveport	KWKH	1000	850 (C)
MAINE			
Bangor	WLBZ	500	620 (C)
Portland	WCSH	1000	940 (R)
MARYLAND			
Baltimore	WBAL	10,000	1060 (B)
Baltimore	WCAO	500	600 (C)
Baltimore	WFBR	500	1270 (R)
Cumberland	WTBO	250	800
Frederick	WFMD	500	900
MASSACHUSETTS			
Boston	WAAB	500	1410 (C)
Boston	WBZ	50,000	990 (B)
Boston	WCOP	500	1120
Boston	WEEI	1000	590 (R)
Boston	WHDH	1000	830
Boston	WNAC	1000	1230 (C)
Fall River	WSAR	250	1450
Needham	WORL	500	920
Springfield	WBZA	1000	990 (B)
Springfield	WMAS	100	1420 (C)
Springfield	WSPR	500	1140
Worcester	WORC	500	1280 (C)
Worcester	WTAG	500	580 (R)
MICHIGAN			
Bay City	WBCM	500	1410
Detroit	WJR	50,000	750 (C)
Detroit	WWJ	1000	920 (R)
Detroit	WXYZ	1000	1240 (B)
East Lansing	WKAR	1000	1040
Grand Rapids	WASH	500	1270 (R or B)
Grand Rapids	WOOD	500	1270 (R or B)
Kalamazoo	WKZO	1000	590
MINNESOTA			
Minneapolis	WCCO	50,000	810 (C)
Minneapolis	WDGY	1000	1180
Minneapolis	WLB	1000	1250
Minneapolis	WTCN	1000	1250
Northfield	WCAL	1000	1250
St. Paul	KSTP	25,000	1460 (R or B)
MISSISSIPPI			
Jackson	WJDX	1000	1270 (R or B)
Meridian	WCOC	500	880
Vicksburg	WQBC	1000	1360
MISSOURI			
Clayton	KFUO	500	550
Columbia	KFRU	500	630
Jefferson City	WOS	500	630
Kansas City	KMBC	1000	950 (C)
Kansas City	WDAF	1000	610 (R)
Kansas City	WHB	1000	860
St. Joseph	KFEQ	2500	680
St. Louis	KMOX	50,000	1090 (C)
St. Louis	KSD	500	550 (R)
St. Louis	KWK	1000	1350 (B)
St. Louis	WEW	1000	760
Springfield	KWTO	5000	560
MONTANA			
Billings	KGHL	1000	950 (R or B)
Butte	KGIR	1000	1340 (R or B)
Great Falls	KFBB	1000	1280
Missoula	KGVO	1000	1260
NEBRASKA			
Clay Center	KMMJ	1000	740
Lincoln	KFAB	10,000	770 (C)
Norfolk	WJAG	1000	1060
North Platte	KGNF	1000	1430
Omaha	WAAW	500	660
Omaha	WOW	1000	590 (R)
York	KGBZ	1000	930
NEVADA			
Reno	KOH	500	1380 (C)
NEW HAMPSHIRE			
Manchester	WFEA	500	1340 (C)
Portsmouth	WHEB	250	740
NEW JERSEY			
Asbury Park	WCAP	500	1280
Atlantic City	WPG	5000	1100 (C)
Camden	WCAM	500	1280
Jersey City	WAAT	500	940
Jersey City	WHOM	250	1450
Newark	WHBI	1000	1250
Newark	WNEW	1000	1250
Newark	WOR	50,000	710 (M)
Trenton	WTNJ	500	1280
Zarephath	WAWZ	500	1350
NEW MEXICO			
Albuquerque	KGGM	250	1230
Albuquerque	KOB	10,000	1180
NEW YORK			
Albany	WOKO	500	1430 (C)
Brooklyn	WARD	500	1400
Brooklyn	WBBC	500	1400
Brooklyn	WBBR	1000	1300
Brooklyn	WEGL	500	1400
Brooklyn	WLTH	500	1400
Brooklyn	WVFW	500	1400
Buffalo	WBEN	1000	900 (R)
Buffalo	WGR	1000	550 (C)
Buffalo	WKBW	5000	1480 (C)
Canton	WCAD	500	1220
Elmira	WESG	1000	1040 (C)
New York	WABC	50,000	860 (C)
New York	WBNX	250	1350
New York	WEAF	50,000	660 (R)
New York	WEVD	1000	1300
New York	WFAB	1000	1300
New York	WHN	1000	1010
New York	WINS	1000	1180
New York	WJZ	50,000	760 (B)
New York	WLWL	5000	1100
New York	WMCA	500	570
New York	WNYC	1000	810
New York	WOV	1000	1130
Plattsburg	WMFF	250	1310
Rochester	WHAM	50,000	1150 (B)
Rochester	WHEC	500	1430 (C)
Schenectady	WGY	50,000	790 (R)
Syracuse	WFBL	1000	1360 (C)
Syracuse	WSYR	250	570 (B)
Troy	WHAZ	500	1300
NORTH CAROLINA			
Asheville	WWMC	1000	570 (R or B)
Charlotte	WBT	50,000	1080 (C)
Greensboro	WBIG	500	1440 (C)
Raleigh	WPTF	5000	680 (R or B)
NORTH DAKOTA			
Bismarck	KFYR	1000	550 (R or B)
Fargo	WDAY	1000	940
Mandan	KGCU	250	1240
Minot	KLPM	250	1240

Broadcasting Stations of the United States

(CONTINUED)

City	Call Letters	Watts	Frequency in Kilocycles
OHIO			
Akron	WADC	500	1320 (C)
Cincinnati	WKRC	500	550 (C)
Cincinnati	WLW	500,000	700 (R or B) (M)
Cincinnati	WSAI	1000	1330 (R)
Cleveland	WGAR	500	1450 (B)
Cleveland	WHK	1000	1390 (C)
Cleveland	WJAY	500	610
Cleveland	WTAM	50,000	1070 (R)
Columbus	WAIU	500	640
Columbus	WBNS	500	1430 (C)
Columbus	WOSU	750	570
Dayton	WHIO	1000	1260 (R)
Tallmadge	WADC	1000	1320
Toledo	WSPD	1000	1340 (C)
Youngstown	WKBN	500	570 (C)
OKLAHOMA			
Enid	KCRC	250	1360
Norman	WNAD	1000	1010
Oklahoma City	KOMA	5000	1480 (C)
Oklahoma City	WKY	1000	900 (R or B)
Tulsa	KTUL	500	1400 (C)
Tulsa	KVOO	25,000	1140 (R or B)
OREGON			
Corvallis	KOAC	1000	550
Marshfield	KOOS	250	1200
Portland	KALE	500	1300 (C)
Portland	KEX	5000	1180 (R or B)
Portland	KFJR	500	1300
Portland	KGW	1000	620 (R or B)
Portland	KOIN	1000	940 (C)
Portland	KWJJ	500	1040
PENNSYLVANIA			
Allentown	WCBA	500	1440
Allentown	WSAN	500	1440
Greensburg	WHJB	250	620
Harrisburg	WHP	500	1430 (C)
Philadelphia	KYW	10,000	1020 (R)
Philadelphia	WCAU	50,000	1170 (C)
Philadelphia	WFIL	500	560 (B)
Philadelphia	WIP	1000	610
Philadelphia	WBEN	250	920
Philadelphia	WRAX	250	920
Pittsburgh	KDKA	50,000	980 (B)
Pittsburgh	KQV	500	1380
Pittsburgh	WCAE	1000	1220 (R)
Pittsburgh	WJAS	1000	1290 (C)
Reading	WEEU	1000	830
Scranton	WGBI	500	880
Scranton	WQAN	500	880
York	WORK	1000	1320
RHODE ISLAND			
Providence	WEAN	500	780 (C)
Providence	WJAR	250	890 (R)
Providence	WPRO	250	630
SOUTH CAROLINA			
Charleston	WCSC	500	1360
Columbia	WIS	500	1010 (R or B)
Greenville	WFBC	1000	1300
Spartanburg	WSPA	1000	920
SOUTH DAKOTA			
Brookings	KFDY	1000	780
Huron	KGDY	250	1340
Sioux Falls	KSOO	2500	1110
Vermillion	KUSD	500	890
Yankton	WNAX	1000	570 (C)
TENNESSEE			
Chattanooga	WDOD	1000	1280 (C)
Knoxville	WNOX	1000	1010 (C)
Memphis	WMC	1000	780 (R or B)
Memphis	WNBR	500	1430
TENNESSEE (Cont'd)			
Memphis	WREC	1000	600 (C)
Nashville	WLAC	5000	1470 (C)
Nashville	WSM	50,000	650 (R or B)
TEXAS			
Amarillo	KGNC	1000	1410
Beaumont	KFDM	500	560
College Station	WTAW	500	1120
Dallas	KRLD	10,000	1040 (C)
Dallas	WFAA	50,000	800 (R or B)
Dallas	WRR	500	1280
Fort Worth	KTAT	1000	1240
Fort Worth	WBAP	50,000	800 (R or B)
Houston	KPRC	1000	920 (R or B)
Houston	KTRH	1000	1290 (C)
Houston	KXYZ	1000	1440
Port Arthur	KPAC	500	1260
San Antonio	KTSA	1000	550 (C)
San Antonio	WOAI	50,000	1190 (R or B)
Weslaco	KRGV	500	1260
Wichita Falls	KGKO	250	570 (C)
UTAH			
Ogden	KLO	500	1400
Salt Lake City	KDYL	1000	1290 (R or B)
Salt Lake City	KSL	50,000	1130 (C)
VERMONT			
Springfield	WNBX	1000	1260
Waterbury	WDEV	500	550
VIRGINIA			
Alexandria	WJSV	10,000	1460
Harrisonburg	WSVA	500	550
Norfolk	WTAR	500	780 (R or B)
Petersburg	WPHR	500	880
Richmond	WRVA	5000	1110 (R or B)
Roanoke	WDBJ	1000	930 (C)
WASHINGTON			
Pullman	KWSC	1000	1220
Seattle	KIRO	250	650
Seattle	KJR	5000	970 (R or B)
Seattle	KOL	1000	1270 (C)
Seattle	KOMO	1000	920 (R or B)
Seattle	KTW	1000	1220
Seattle	KXA	250	760
Spokane	KFPY	1000	890 (C)
Spokane	KGA	5000	1470 (R or B)
Spokane	KHQ	1000	590 (R or B)
Tacoma	KMO	250	1330
Tacoma	KVI	1000	570 (C)
WEST VIRGINIA			
Bluefield	WHIS	250	1410
Charleston	WCHS	500	580
Fairmont	WMMN	500	890 (C)
Huntington	WSAZ	1000	1190
Wheeling	WWVA	5000	1160 (C)
WISCONSIN			
Eau Claire	WTAQ	1000	1330
LaCrosse	WKBH	1000	1380
Madison	WHA	2500	940
Madison	WIBA	1000	1280 (R or B)
Milwaukee	WISN	250	1120 (C)
Milwaukee	WTMJ	1000	620 (R or B)
Sheboygan	WHBL	500	1410
Stevens Point	WLBL	2500	900
Superior	WEBC	1000	1290 (R or B)
WYOMING			
Casper	KDFN	500	1440

NETWORK AFFILIATIONS

C. Columbia Broadcasting System.
R. National Broadcasting Company—Red.
B. National Broadcasting Company—Blue.
M. Mutual Broadcasting System.

Broadcasting Stations of Canada

Stations rated at 100 watts and up

Location	Call Letters	Watts	Frequency in Kilocycles
ALBERTA			
Calgary	CFAC	100	930 (F)
Calgary	CFCN	10,000	1030
Calgary	CJCJ	100	690 (F)
Edmonton	CFRN	100	1260 (F)
Edmonton	CJCA	1000	730 (F)
Edmonton	CKUA	500	580
Lethridge	CJOC	100	1230 (F)
BRITISH COLUMBIA			
Chilliwack	CHWK	100	780 (F)
Kamloops	CFJC	100	880 (F)
Kelowna	CKOV	100	630 (F)
Trail	CJAT	250	910 (F)
Vancouver	CJOR	500	600
Vancouver	CKCD	100	1010
Vancouver	CKMO	100	1410 (F)
Vancouver	CKWX	100	1010 (F)
Vancouver	CRCV	500	1100 (F)
MANITOBA			
Brandon	CKX	100	1120 (F)
Winnipeg	CJRC	500	1390 (F)
Winnipeg	CKY	15,000	960 (F)
NEW BRUNSWICK			
Fredericton	CFNB	500	550 (F)
Moncton	CKCW	100	1370 (F)
St. John	CHSJ	500	1120 (F)
NOVA SCOTIA			
Glace Bay	VAS	2000	685
Halifax	CHNS	1000	930 (F)
Sydney	CJCB	1000	1240 (F)
Yarmouth	CJLS	100	1310
ONTARIO			
Brantford	CKPC	100	930 (F)
Chatham	CFCO	100	630 (F)
Fort William	CKPR	100	930 (F)
Hamilton	CHML	100	1010 (F)
Hamilton	CKOC	500	1120 (F)
Kingston	CRFC	100	1510
Kirkland Lake	CJKL	100	1310
London	CFPL	100	730 (F)

Location	Call Letters	Watts	Frequency in Kilocycles
ONTARIO (Cont'd)			
North Bay	CFCH	100	930 (F)
Ottawa	CKCO	100	1010 (F)
Ottawa	CRCO	1000	880 (F)
Prescott	CFLC	100	930
St. Catherines	CKTB	100	1200 (F)
Sault Ste. Marie	CJIC	100	1500
Sudbury	CKSO	1000	780 (F)
Timmins	CKGB	100	1420
Toronto	CFRB	10,000	690 (C)
Toronto	CKCL	100	580 (F)
Toronto	CRCT	5000	840 (R or B)
Waterloo	CKCR	100	1510
Windsor	CKLW	5000	1030 (M)
Windsor	CRCW	500	600 (F)
PRINCE EDWARD ISLAND			
Charlottetown	CFCY	1000	630 (F)
QUEBEC			
Chicoutimi	CRCS	100	950 (F)
Hull	CKCH	100	1210 (F)
Montreal	CFCF	400	600 (R or B)
Montreal	CHLP	100	1120 (F)
Montreal	CKAC	5000	730 (C)
Montreal	CRCM	5000	910 (F)
New Carlisle	CHNC	500	1410 (F)
Quebec	CHRC	100	580 (F)
Quebec	CKCV	100	1310 (F)
Quebec	CRCK	1000	1050
SASKATCHEWAN			
Moose Jaw	CHAB	100	1200 (F)
Moose Jaw	CJRM	1000	540 (F)
Prince Albert	CKBI	100	1210 (F)
Regina	CHWC	500	1010 (F)
Regina	CKCK	500	1010 (F)
Saskatoon	CFQC	1000	840 (F)
Yorkton	CJGX	1000	630 (F)
NEWFOUNDLAND			
St. John's	VOAS	100	940
St. John's	VOGY	400	840
St. John's	VONF	500	1195
St. John's	VOWR	500	681

NETWORK AFFILIATIONS

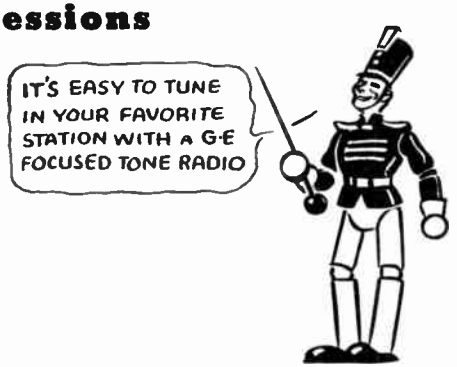
F. Canadian Broadcasting Commission.
C. Columbia Broadcasting System.
R or B. National Broadcasting Company (Red or Blue Network).
M. Mutual Broadcasting System.

Broadcasting Stations of U. S. Territories and Possessions

Location	Call Letters	Watts	Frequency in Kilocycles
ALASKA			
Anchorage	KFQD	250	780
Juneau	KINY	100	1310
Ketchikan	KGBU	500	900
HAWAIIAN ISLANDS			
Hilo	KHBC	100	1420
Honolulu	KGMB	1000	1320 (C)
Honolulu	KGU	2500	750 (R or B)

NETWORK AFFILIATIONS

C. Columbia Broadcasting System.
R. or B. National Broadcasting Company.



Radio's Newest Marvel

G-E Focused Tone

Revolutionizes Tuning! Auto

HERE'S something utterly new in radio—a radio that you simply can't tune wrong. If you set the dial of the new G-E the slightest bit off-tune—*and nine out of ten people do without knowing it*—an amazing thing happens. Instantly the new G-E Radio automatically shifts itself into absolute hair-line tuning.

And as it corrects your tuning error, the new G-E Colorama Dial changes from red to green. When the dial flashes green you can be sure your program is in perfect Focused Tone—every note and accent flawless, life-like and true!

CUSTOM-TAILORED DIALS

The new G-E is a Personalized Radio—with a custom-tailored dial. Your own local station letters flash on when you tune in. This new G-E Dial puts an end to hunting up kilocycle numbers, too—stations are plainly marked by *letters and kilocycles*.

You'll be fascinated as you watch the new G-E shift itself into precision tuning. You'll get an even greater thrill when you close your eyes and listen to the whole new range of overtones and undertones which only the new G-E brings you.

SEE—AND HEAR—THE NEW G-E

Until you've heard the new G-E you'll never know how far radio has leaped ahead in one short year. Stop in soon—there's a G-E Franchised Radio Dealer near you—and discover what your ears are missing. Compare the tone and performance of the new G-E with that of any radio at any price. When you've seen them all—and heard them all—you'll buy the new G-E.

WHAT IS FOCUSED TONE?

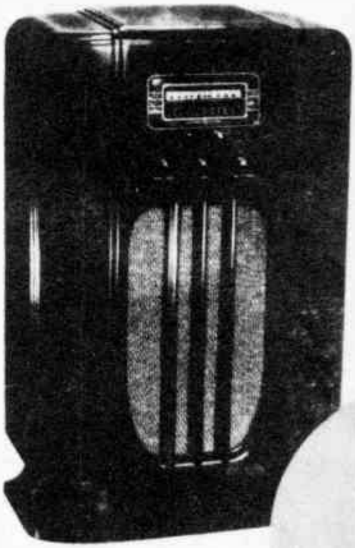
—[illegible]

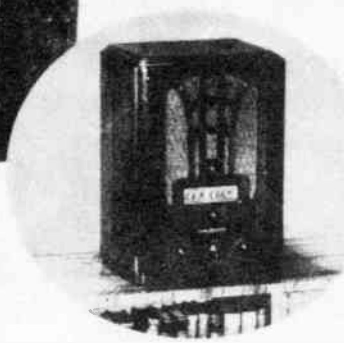
—[illegible]

—[illegible]

—[illegible]

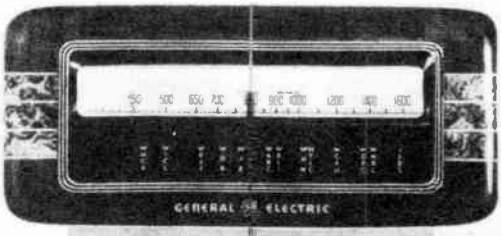
—[illegible]





The new General Electric comes in 30 handsome models—priced from $29.95 to $750. Eastern list—slightly higher West and South

R E S E A R C H K E E P S G E N E R A L



matically Assures *Perfect Tone!*

The new G-E brings you every radio service on the air

FOREIGN BROADCASTS—over all short wave bands. Fascinating listening—bringing news from the capitals of the world. A whole new world of radio enjoyment brought to you with life-like tone and precision

DOMESTIC SHORT WAVE STATIONS—particularly valuable for long distance day time reception

DOMESTIC PROGRAMS—heard with a perfection of tone never possible before

POLICE CARS—news flashes to citizens at

FIXED SHORT WAVE—all occupations including the new ultra short wave, 56,000 to 60,000 kilocycle service, now being rapidly extended across the country

AMATEUR STATIONS—interesting amateur broadcasts—day and night

AVIATION—exciting conversations between ships and air ports—night and day

GENERAL ELECTRIC *Radio*

You'll always be glad you bought a G-E

ELECTRIC YEARS AHEAD

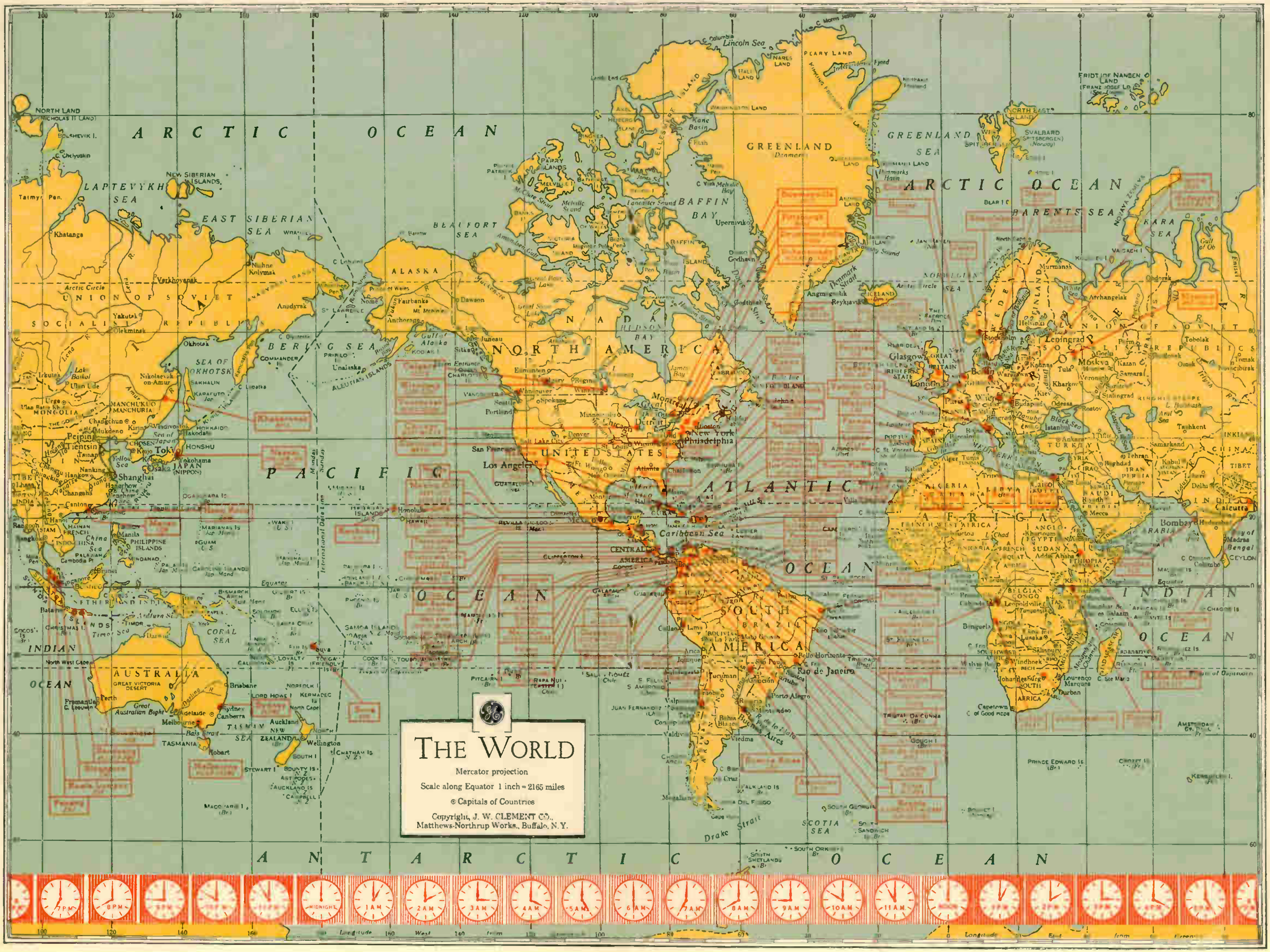
Police Radio Alarm Stations

Thrill to the exciting real-life drama that awaits you with a General Electric Radio equipped to receive police radio alarm signals. Tune in these stations. Ride in fancy with the men who, in radio patrol cars, daily risk their lives to maintain the safety of American cities. A list of the more important police call stations is given below.

Call	Location	Frequency in Megacycles
KGZV	Aberdeen, Wash.	2.41
WPDO	Akron, Ohio	2.45
WPGH	Albany, N. Y.	2.41
KGLX	Albuquerque, N. M.	2.41
KGZX	Albuquerque, N. M.	2.41
WPED	Arlington, Mass.	1.71
WPFS	Asheville, N. C.	2.47
WPDY	Atlanta, Ga.	2.41
WPDN	Auburn, N. Y.	2.38
KGHU	Austin, Tex.	2.44
KGPS	Bakersfield, Cal.	2.41
WPFH	Baltimore, Md.	2.41
KGPY	Baton Rouge, La.	1.57
WPGA	Bay City, Mich.	2.46
KGPJ	Beaumont, Tex.	1.71
WCK	Belle Island, Mich.	2.41
KNFK	Bellingham, Wash.	2.49
KSW	Berkeley, Cal.	1.65
WPGL	Binghamton, N. Y.	2.44
WPFM	Birmingham, Ala.	2.38
WEY	Boston, Mass.	1.55
WPGU	Boston, Mass.	1.71
WPFW	Bridgeport, Conn.	2.47
WPHV	Bristol, Va.	2.45
KGHT	Brownsville, Tex.	2.38
WMJ	Buffalo, N. Y.	2.42
WPHT	Cambridge, Ohio	1.68
KGOZ	Cedar Rapids, Iowa	2.46
KGHW	Centralia, Wash.	2.41
KGZF	Chanute, Kans.	2.45
WPHI	Charleston, W. Va.	2.49
WPDV	Charlotte, N. C.	2.45
WPDB	Chicago, Ill.	1.71
WPDC	Chicago, Ill.	1.71
WPDD	Chicago, Ill.	1.71
KGHQ	Chinook Pass, Wash.	2.49
WKDU	Cincinnati, Ohio	1.70
WPFP	Clarksburg, W. Va.	2.49
KNGE	Cleburne, Tex.	1.71
WRBH	Cleveland, Ohio	2.45
KNFA	Clovis, N. Mex.	2.41
KGZP	Coffeyville, Kans.	2.45
WPFI	Columbus, Ga.	2.41
WPDI	Columbus, Ohio	2.43
WPGQ	Columbus, Ohio	1.59
KNFM	Compton, Cal.	2.49
KGHV	Corpus Christi, Tex.	2.38
WPGK	Cranston, R. I.	2.46
WPHS	Culver, Ind.	1.63
KVP	Dallas, Tex.	1.71
KGPN	Davenport, Iowa	2.46
WPDM	Dayton, Ohio	2.43
KGPX	Denver, Colo.	2.44
KGHO	Des Moines, Iowa	1.68
KGZG	Des Moines, Iowa	2.46
WKDT	Detroit, Mich.	1.55
WPDX	Detroit, Mich.	2.41
KNGH	Dodge City, Kans.	2.47
KNFE	Duluth, Minn.	2.38
KSNE	Duluth, Minn.	2.38
KNGK	Duncan, Okla.	2.45
WRDS	E. Lansing, Mich.	1.66
WPEI	E. Providence, R. I.	1.71
KNGJ	El Centro, Cal.	2.49
WPHY	Elizabethton, Tenn.	2.47
KGZM	El Paso, Tex.	2.41
KNFP	Everett, Wash.	2.41
WPFN	Fairhaven, Mass.	1.71
WPHJ	Fairmont, W. Va.	2.49
WPGG	Findlay, Ohio	1.59
WPHA	Fitchburg, Mass.	2.46
WPDF	Flint, Mich.	2.46
WPDZ	Fort Wayne, Ind.	2.49
WMP	Framingham, Mass.	1.66
KGZA	Fresno, Cal.	2.41
KNGL	Galveston, Tex.	1.71
KNFH	Garden City, Kans.	2.47
WPFL	Gary, Ind.	2.47
WPEB	Grand Rapids, Mich.	2.44
WRDR	Grosse Pt., Mich.	2.41
WPFK	Hackensack, N. J.	2.43
WPFJ	Hammond, Ind.	1.71
WPSP	Harrisburg, Pa.	1.67
WMO	Highland Park, Mich.	2.41
KGZB	Houston, Tex.	1.71
WPGO	Huntington, N. Y.	2.49
KNFB	Idaho Falls, Idaho	2.45
WMDZ	Indianapolis, Ind.	2.44
WPHP	Jackson, Mich.	2.46
WPFG	Jacksonville, Fla.	2.44
KIUK	Jefferson City, Mo.	1.67
WPFR	Johnson City, Tenn.	2.47
WPGZ	Johnson City, Tenn.	2.47
KGPE	Kansas City, Mo.	2.42
WPEP	Kenosha, Wis.	2.45
KGZH	Klamath Falls, Ore.	2.38
WPFO	Knoxville, Tenn.	2.47
WPDT	Kokomo, Ind.	2.49
KGHP	Lakton, Okla.	2.46
WPFT	Lakeland, Fla.	2.44
WPDL	Lansing, Mich.	2.44
KGHG	Las Vegas, Nev.	2.47
KNFF	Leavenworth, Kans.	2.42
WPET	Lexington, Ky.	1.70
KGZU	Lincoln, Neb.	2.49
KGHZ	Little Rock, Ark.	2.40
KGPL	Los Angeles, Cal.	1.71
WPDE	Louisville, Ky.	2.44
KGZW	Lubbock, Tex.	2.45
WPHC	Massillon, Ohio	1.68
KGZS	McAlester, Okla.	2.45
WPHG	Medford, Mass.	1.71
WPEC	Memphis, Tenn.	2.46
WPFZ	Miami, Fla.	2.44
WPDK	Milwaukee, Wis.	2.45
WPGS	Mineola, N. Y.	2.49
KGPB	Minneapolis, Minn.	2.43
KGPR	Minneapolis, Minn.	2.43
WPGW	Mobile, Ala.	2.38
VYR	Montreal, Canada	1.71
KNFI	Mt. Vernon, Wash.	2.41
WPGP	Muncie, Ind.	2.44
WPFC	Muskegon, Mich.	2.44
WPHB	Nashua, N. H.	2.42
WPGT	New Castle, Pa.	2.47
WPEK	New Orleans, La.	2.43
WPFA	Newton, Mass.	1.71
WPEE	New York, N. Y.	2.45
WPEF	New York, N. Y.	2.45
WPEG	New York, N. Y.	2.45
KMFP	Niagara Falls, N. Y.	2.42
WMFP	Niagara Falls, N. Y.	2.42
WPEW	Northampton, Mass.	1.66
KGPH	Oklahoma City, Okla.	2.45
KNFG	Olympia, Wash.	2.49
KGPI	Omaha, Neb.	2.46
WPHM	Orlando, Fla.	2.44
WPFX	Palm Beach, Fla.	2.44
KGHK	Palo Alto, Cal.	1.67
WPHQ	Parkersburg, W. Va.	2.49
KCJX	Pasadena, Cal.	1.71
WPFV	Pawtucket, R. I.	2.46
WPDP	Philadelphia, Pa.	2.47
KGZJ	Phoenix, Ariz.	2.43
KNGG	Phoenix, Ariz.	1.69
WPDU	Pittsburgh, Pa.	1.71
KNFJ	Pomona, Cal.	1.71
WPGB	Port Huron, Mich.	2.46
WPFU	Portland, Me.	2.42
KGPP	Portland, Ore.	2.44
WPGI	Portsmouth, Ohio	2.43
WPGF	Providence, R. I.	1.71
WPFE	Reading, Pa.	2.44
KGHM	Reno, Nev.	2.47
WPDH	Richmond, Ind.	2.44
WPHF	Richmond, Va.	2.45
WPDR	Rochester, N. Y.	2.38
WPGD	Rockford, Ill.	2.45
KNGF	Sacramento, Cal.	2.42
WPES	Saginaw, Mich.	2.44
KGPC	St. Louis, Mo.	1.70
WPDS	St. Paul, Minn.	2.43
KGZR	Salem, Ore.	2.44
KGPW	Salt Lake City, Utah	2.40
KGZE	San Antonio, Tex.	2.48
KGZY	San Bernardino, Cal.	1.71
KGZD	San Diego, Cal.	2.49
KGPD	San Francisco, Cal.	2.46
KGPM	San Jose, Cal.	2.46
KGHX	Santa Ana, Cal.	2.43
KGZO	Santa Barbara, Cal.	2.41
KGZT	Santa Cruz, Cal.	1.67
KGPF	Santa Fe, N. Mex.	2.41
KGPA	Seattle, Wash.	2.41
KGZL	Shreveport, La.	1.71
KNFL	Shuksan, Wash.	2.49
KGPK	Sioux City, Iowa	2.46
KNFQ	Skykomish, Wash.	2.49
WPEH	Somerville, Mass.	1.71
WPGN	South Bend, Ind.	2.49
WPGC	S. Schenectady, N. Y.	1.65
KGHS	Spokane, Wash.	2.41
WPHD	Steubenville, Ohio	2.45
KNFO	Storm Lake, Iowa	1.68
WPFQ	Swarthmore, Pa.	2.47
WPEA	Syracuse, N. Y.	2.38
KGZN	Tacoma, Wash.	2.41
WPHN	Tampa, Fla.	2.46
WRDQ	Toledo, Ohio	2.47
KGZC	Topeka, Kans.	2.42
WPDA	Tulare, Cal.	2.41
KGPO	Tulsa, Okla.	2.45
WPGJ	Utica, N. Y.	2.41
KGPG	Vallejo, Cal.	2.42
KGZQ	Waco, Tex.	1.71
WPDW	Washington, D. C.	2.42
KNFN	Waterloo, Iowa	1.68
WPEL	W. Bridgewater, Mass.	1.66
KGHY	Whittier, Cal.	1.71
KGPZ	Wichita, Kans.	2.45
KGZI	Wichita Falls, Tex.	2.45
WPHK	Wilmington, Ohio	1.59
VYW	Winnipeg, Man.	2.45
WPEM	Woonsocket, R. I.	2.46
WPGX	Worcester, Mass.	2.46
WPFY	Yonkers, N. Y.	2.44
WPDG	Youngstown, Ohio	2.45
WPHO	Zanesville, Ohio	2.43

STATE POLICE

KGHA	Portable-Mobile	2.49
KGHB	In State of Wash.	2.49
KGHC	In State of Wash.	2.49
KGHD	In State of Wash.	2.49
KGHE	In State of Wash.	2.49
KGHR	(Mobile) in Wash.	2.49
WPEV	Portable (in Mass.)	1.66
WPHL	Portable in Ohio	1.68
WPHE	Marion Co., Ind.	1.63



World-wide Tours via Short-wave Radio

To a large percentage of radio set owners, that glamorous world of Radio by which we hear music, lectures, opera, sports and dramatic happenings of the day, begins at a spot on the dial marked 550 kilocycles and ends on the 1500-kilocycle line. Little do these people realize that above 1500 kilocycles lies a new realm of radio—short-wave reception—a vast territory of ethereal space that scientists have developed for the benefit of Man. This new, romantic world . . . appeals to every man, woman and child.

Short waves bring you a new type of entertainment. They give you close contact with strange lands, new people, different manners and customs. They bring the outposts of the world to your living room. They supply a passport to many countries that all of us hope to visit but which we somehow never seem to reach.

Since a broadcast is an expression of the people, it is naturally typical of the country of its origin. Our programs here in the United States follow a pattern that is peculiar to our times and our people. As such they are recognized wherever they are heard. The same can be said of broadcasts originating in European, South American, Australian and Asiatic centers. So typical are many of these offerings, that listeners, after a few months, can identify the sources of their entertainment long before the stations announce their call letters or give their identifying signals.

What better comparison could be drawn between a short-wave receiver and a world passport? A General Electric receiver may be likened to a world cruise in an easy chair, taken at the convenience of the traveler. As a matter of plain truth, a real world cruise would never touch many of the spots that are brought to our easy chairs by the ether waves.

As a general rule, short-wave programs from foreign countries are received at their best according to the following schedule:

EUROPE—

During the forenoon on the 16-, 19-, and 25-meter bands.

During the afternoon on the 19-, 25-, and 31-meter bands.

During the evening on the 31- and 49-meter bands.

ASIA and AUSTRALIA—

During the early morning on the 16-, 19-, and 25-meter bands.

SOUTH AMERICA—

During the forenoon on the 19- and 25-meter bands.

During the afternoon on the 19- and 25-meter bands.

During the evening on the 31- and 49-meter bands.

NORTH AMERICA—

During the hours of daylight, up to one thousand miles, on the 49-meter band. Beyond one thousand miles, on the 16-, 19-, 25-, and 31-meter bands.

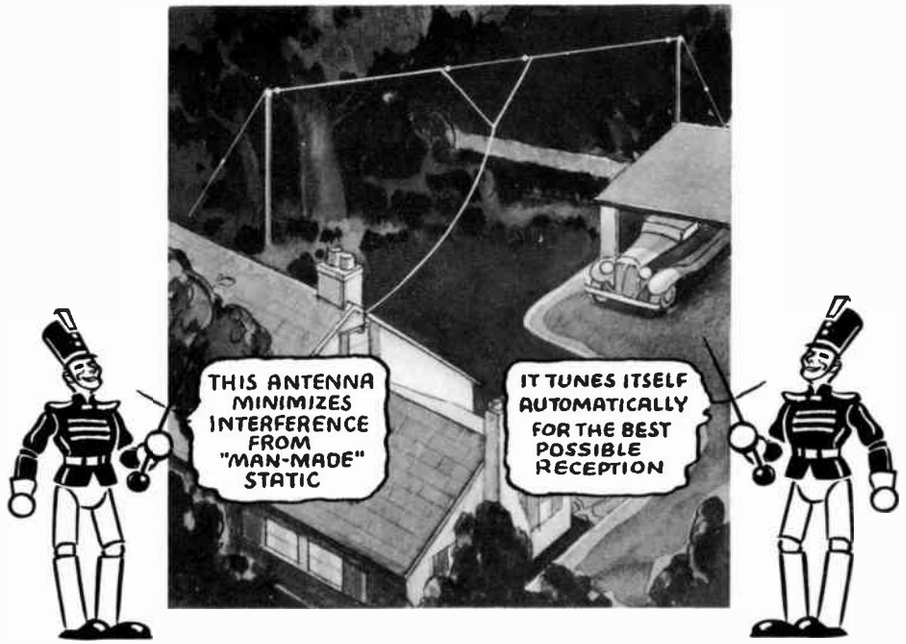
On the eastern seaboard of the United States, European and South American stations are received at their greatest signal strength. Broadcasts emanating from Asia and Australia will be received at their greatest strength in the Fall, but should be received well at other seasons, in early morning hours.

In the Central States, because of their long distance from any large body of water and the screening effect of large mountain ranges, European broadcast reception is not received at its greatest volume. South American and Australian stations are well received in the Fall and Spring.

West Coast listeners receive Asiatic and Australian stations at greater signal strength than other foreign stations.

Foreign short-wave reception is at its best during the summer months.

FOR BETTER RADIO RECEPTION USE A GENERAL ELECTRIC "V-DOUBLET" ALL-WAVE ANTENNA SYSTEM



The G-E "V-doublet" All-wave Antenna System was developed by General Electric Radio engineers to provide the best possible reception of both standard broadcast and short-wave programs. No radio receiver is able to do more than reproduce the signals picked up by its antenna. The "V-doublet" assures uniformly good reception on all bands with a minimum of interference.

In the reception of short-wave signals, the tapered "V" performs the function of coupling the antenna, which picks up the signal, to the transmission line which feeds the signal to the receiver. The "V-doublet" does not favor any particular short-wave frequency but automatically adjusts itself to receive signals at uniform sensitivity over the entire short-wave band.

A balanced, twisted-pair transmission line, coupled to the receiver, affords the proper electrical matching for the greatest energy transfer from the antenna to the receiving set. This lead-in transmission line minimizes interference originating from the house wiring system, and external electrical apparatus, including even ignition systems of passing automobiles.

In receiving standard broadcasts, this antenna system is automatically converted from its "V-doublet" form to one approximately the conventional "T" type arrangement, by a special circuit employed in the receiver-coupling transformer.

See that a G-E "V-doublet" is installed so that you can enjoy your "round-the-world" radio tour to the utmost.

Foreign Short-wave Broadcast Stations

Location	Call Letters	Frequency Mega-cycles
ARGENTINA		
Buenos Aires	LRU	15.29
Buenos Aires	LRX	9.58
AUSTRALIA		
Melbourne	VK3LR	9.58
Melbourne	VK3ME	9.49
Sydney	VK2ME	9.59
AUSTRIA		
Vienna	OER2	6.07
BELGIUM		
Brussels	ORK	10.33
BOLIVIA		
La Paz	CP5	6.08
BRAZIL		
Pernambuco	PRA8	6.02
Rio de Janeiro	PRF5	9.50
CANADA		
Bowmanville, Ont.	VE9GW	6.09
Halifax, N. S.	CHNX	6.11
Montreal, Que.	VE9DN	6.00
St. John, N. B.	VE9BJ	6.09
Toronto, Ont.	CRCX	6.09
Vancouver, B.C.	VE9CS	6.07
Winnipeg, Man.	CJRO	6.16
Winnipeg, Man.	CJRX	11.72
CHINA		
Hong Kong	ZCK	8.75
Shanghai	XGBD	9.58
Shanghai	XGW	10.42
COLOMBIA		
Barranquilla	HJ1ABB	6.44
Barranquilla	HJ1ABG	6.04
Bogota	HJ3ABD	7.39
Bogota	HKE	7.13
Bogota	HJ3ABI	6.04
Cartagena	HJ1ABD	7.28
Cartagena	HJ1ABE	6.11
Cali	HJ5ABE	14.12
Cali	HJ5ABD	6.49
Cucuta	HJ2ABC	5.97
Medellin	HJ4ABA	11.71
Medellin	HJ4ABE	5.93
Ibague	HJ4ABC	6.45
Santa Marta	HJ1ABJ	6.00
COSTA RICA		
San Jose	TIEP	6.71
San Jose	TIRCC	6.55
San Jose	TIPG	6.41
San Jose	TIGPH	5.82
CUBA		
Havana	COCH	9.42
Havana	COCD	6.13
Havana	COCO	6.01
Santiago	COKG	6.15
CZECHOSLOVAKIA		
Prague	OKI	21.02
DENMARK		
Skamlebaek	OXY	6.06
DOMINICAN REPUBLIC		
Santo Domingo	H14D	6.50
Santo Domingo	HIZ	6.31
Santo Domingo	HIL	6.50
Santo Domingo	HIX	5.98
Santiago de Caballeros	HI1A	6.18
DOMINICAN REP. (Cont'd)		
San Pedro de Macoris	H1H	6.79
ECUADOR		
Quito	HCJB	8.77
Quito	HCK	5.88
Guayaquil	HC2CW	8.40
Guayaquil	HJ2JSB	7.83
Guayaquil	HC2RL	6.65
Guayaquil	HC2ET	4.60
Riobamba	PRADO	6.62
EGYPT		
Cairo	SUZ	13.81
Cairo	SUV	10.05
FEDERATED MALAY STATES		
Penang	ZHJ	6.08
Singapore	ZHI	6.01
FIJI ISLANDS		
Suva	VPD	13.07
FRANCE		
Pontoise (Paris)	FYA	11.88
Pontoise (Paris)	FYA	11.72
Pontoise (Paris)	FYA	15.24
FRENCH INDO-CHINA		
Saigon	FZS	18.31
GERMANY		
Zeesen (Berlin)	DJB	15.20
Zeesen (Berlin)	DJD	11.77
Zeesen (Berlin)	DJA	9.56
Zeesen (Berlin)	DJN	9.54
Zeesen (Berlin)	DJC	6.02
Zeesen (Berlin)	DJE	17.76
GUATEMALA		
Guatemala	TG2X	5.94
HAITI		
Port au Prince	HH2T	11.79
Port au Prince	HH2S	5.91
HONDURAS		
Tegucigalpa	HRN	5.87
HUNGARY		
Budapest	HAS3	15.37
Budapest	HAT4	9.12
Szekesfehervar	HAT	13.68
INDIA		
Bombay	VUB	9.56
ITALY		
Rome	2RO	11.81
Rome	2RO	9.63
Rome	2RO	6.08
Vatican City	HVJ	15.12
Vatican City	HVJ	5.96
JAPAN		
Nazaki (Tokyo)	JVH	14.64
Nazaki	JVM	10.74
Nazaki	JVN	10.66
Nazaki	JVO	10.37
Nazaki	JVP	7.51
MEXICO		
Mexico City	XEBT	6.00
Mexico City	XECR	7.38
Vera Cruz	XEUW	6.02
MOROCCO		
Rabat	CNR	12.83
Rabat	CNR	8.03
NETHERLANDS		
Eindhoven	PCJ	15.22
Eindhoven	PCJ	9.59
Huizen	PHI	17.77
Huizen	PHI	11.73
NETHERLANDS EAST INDIES		
Bandjermasin	YDV2	3.33
Bandoeng	PLV	9.41
Bandoeng	YDA5	6.12
Trandjangpriok	YDA	6.04
NORWAY		
Jeloy	LKJ1	9.53
PANAMA		
Panama City	HP5J	9.59
Panama City	HP5B	6.03
PERU		
Lima	OAX4D	5.78
PHILIPPINE ISLANDS		
Manila	KAY	14.98
Manila	KG2F	5.80
POLAND		
Warsaw	SPW	13.63
PORTUGAL		
Lisbon	CT1AA	9.66
Lisbon	CTICT	3.75
Lisbon	CSL	6.15
Parede	CT1GO	12.39
Parede	CT1GO	6.19
SIAM		
Bangkok	HSP	17.74
SPAIN		
Madrid	EAQ	9.86
SWITZERLAND		
Geneva	HBL	9.59
Lausanne	HB9AQ	3.52
U.S.S.R.		
Moscow	RKI	15.04
Moscow	RV59	12.00
Moscow	RV72	6.61
Moscow	RV59	6.00
Khabarovsk	RV15	4.27
SOUTH AFRICA		
Johannesburg	ZTJ	6.10
Nairobi, Kenya	VQ7LO	6.08
UNITED KINGDOM		
Daventry, England	GSA	6.05
Daventry, England	GSL	6.11
Daventry, England	GSB	9.51
Daventry, England	GSC	9.58
Daventry, England	GSD	11.75
Daventry, England	GSE	11.86
Daventry, England	GSF	15.14
Daventry, England	GSI	15.26
VENEZUELA		
Caracas	YV4RC	6.37
Caracas	YV3RC	6.15
Caracas	YV2RC	5.80
Maracaibo	YV5RMO	5.85
Maracay	YVQ	6.67

RADIO BROADCASTING SCHEDULE

For Principal Foreign Short-wave Stations Heard in the United States

The information listed below was correct at the date of printing. Foreign short-wave stations change their broadcasting time and station frequency at irregular and frequent intervals. Radio owners who desire additional information regarding short-wave broadcasts are referred to the schedules published by radio magazines and newspapers.
Time indicated in this time table is EASTERN STANDARD TIME.

MORNING

Call Letters	Mega-cycles	Location
12 Midnight		
VPD	13.07	Suva, Fiji Islands
FYA	11.72	Paris, France
JVN	10.66	Nazaki, Japan
VK3LR	9.58	Melbourne, Australia
ZCK	8.75	Hong Kong, China
1 A.M.		
VPD	13.07	Suva, Fiji Islands
VK2ME	9.59	Sydney, Australia
VK3LR	9.58	Melbourne, Australia
ZCK	8.75	Hong Kong, China
2 A.M.		
RKI	15.04	Moscow, U.S.S.R.
VK2ME	9.59	Sydney, Australia
VK3LR	9.58	Melbourne, Australia
GSB	9.51	Daventry, England
RV15	4.27	Khabarovsk, Siberia
3 A.M.		
DJB	15.20	Berlin, Germany
RKI	15.04	Moscow, U.S.S.R.
VK3LR	9.58	Melbourne, Australia
OER2	6.07	Vienna, Austria
RV15	4.27	Khabarovsk, Siberia
4 A.M.		
DJB	15.20	Berlin, Germany
RKI	15.04	Moscow, U.S.S.R.
FYA	11.88	Paris, France
VK3LR	9.58	Melbourne, Australia
ZCK	8.75	Hong Kong, China
JVT	6.75	Nazaki, Japan
ZTJ	6.10	Johannesburg, Africa
RV15	4.27	Khabarovsk, Siberia
5 A.M.		
DJB	15.20	Berlin, Germany
RKI	15.04	Moscow, U.S.S.R.
PMN	10.26	Bandoeng, Java
VK2ME	9.59	Sydney, Australia
VK3LR	9.58	Melbourne, Australia
LKJ1	9.53	Jeloy, Norway
ZCK	8.75	Hong Kong, China
JVT	6.75	Nazaki, Japan
ZTJ	6.10	Johannesburg, Africa
YDA	6.04	Batavia, Java
RV15	4.27	Khabarovsk, Siberia
6 A.M.		
FYA	15.24	Paris, France
DJB	15.20	Berlin, Germany
RKI	15.04	Moscow, U.S.S.R.
GSD	11.75	Daventry, England
PMN	10.26	Bandoeng, Java
VK2ME	9.59	Sydney, Australia
VK3LR	9.58	Melbourne, Australia
LKJ1	9.53	Jeloy, Norway
ZCK	8.75	Hong Kong, China
JVT	6.75	Nazaki, Japan
ZTJ	6.10	Johannesburg, Africa
YDA	6.04	Batavia, Java
RV15	4.27	Khabarovsk, Siberia
7 A.M.		
FYA	15.24	Paris, France
DJB	15.20	Berlin, Germany
RKI	15.04	Moscow, U.S.S.R.
GSD	11.75	Daventry, England
PMN	10.26	Bandoeng, Java
VK2ME	9.59	Sydney, Australia
VK3LR	9.58	Melbourne, Australia
LKJ1	9.53	Jeloy, Norway
JVT	6.75	Nazaki, Japan
ZTJ	6.10	Johannesburg, Africa
PRA8	6.02	Pernambuco, Brazil
YDA	6.04	Batavia, Java
RV15	4.27	Khabarovsk, Siberia
8 A.M.		
GSG	17.79	Daventry, England
FYA	15.24	Paris, France
DJB	15.20	Berlin, Germany
RKI	15.04	Moscow, U.S.S.R.
2RO	11.81	Rome, Italy
GSD	11.75	Daventry, England
PMN	10.26	Bandoeng, Java
JVP	7.51	Nazaki, Japan
PRA8	6.04	Pernambuco, Brazil
YDA	6.04	Batavia, Java
RV15	4.27	Khabarovsk, Siberia
9 A.M.		
FYA	15.24	Paris, France
DJB	15.20	Berlin, Germany
GSF	15.14	Daventry, England
RKI	15.04	Moscow, U.S.S.R.
GSE	11.86	Daventry, England
2RO	11.81	Rome, Italy
PMN	10.26	Bandoeng, Java
JVP	7.51	Nazaki, Japan
OER2	6.07	Vienna, Austria
PRA8	6.02	Pernambuco, Brazil
YDA	6.04	Batavia, Java
COCO	6.01	Havana, Cuba
RV15	4.27	Khabarovsk, Siberia
10 A.M.		
FYA	15.24	Paris, France
DJB	15.20	Berlin, Germany
GSF	15.14	Daventry, England
RKI	15.04	Moscow, U.S.S.R.
GSE	11.86	Daventry, England
2RO	11.81	Rome, Italy
DJA	9.56	Zeesen, Germany
COCH	9.42	Havana, Cuba
ZP10	8.22	Asuncion, Paraguay
OER2	6.07	Vienna, Austria
PRA8	6.02	Pernambuco, Brazil
COCO	6.01	Havana, Cuba
XEBT	6.00	Mexico City, Mexico
11 A.M.		
GSF	15.14	Daventry, England
FYA	11.88	Paris, France
GSE	11.86	Daventry, England
2RO	11.81	Rome, Italy
LKJ1	9.53	Jeloy, Norway
COCH	9.42	Havana, Cuba
ZP10	8.22	Asuncion, Paraguay
VO7LO	6.08	Nairobi, Kenya
OER2	6.07	Vienna, Austria
COCO	6.01	Havana, Cuba
XEBT	6.00	Mexico City, Mexico
YV2RC	5.80	Caracas, Venezuela

AFTERNOON

12 Noon		
FYA	11.88	Paris, France
2RO	11.81	Rome, Italy
GSD	11.75	Daventry, England
LKJ1	9.53	Jeloy, Norway
GSB	9.51	Daventry, England
GSL	6.11	Daventry, England
VO7LO	6.08	Nairobi, Kenya
OER2	6.07	Vienna, Austria
HP5B	6.03	Panama City, Panama
DJC	6.02	Berlin, Germany
COCO	6.01	Havana, Cuba
XEBT	6.00	Mexico City, Mexico
YV2RC	5.80	Caracas, Venezuela
1 P.M.		
ORP	13.20	Brussels, Belgium
FYA	11.88	Paris, France

RADIO BROADCASTING SCHEDULE

Call Letters	Mega-cycles	Location
2RO	11.81	Rome, Italy
GSD	11.75	Daventry, England
LKJ1	9.53	Jeloy, Norway
GSB	9.51	Daventry, England
GSL	6.11	Daventry, England
VL7LO	6.08	Nairobi, Kenya
OER2	6.07	Vienna, Austria
OXY	6.06	Skamlebaek, Denmark
PRA8	6.02	Pernambuco, Brazil
DJC	6.02	Berlin, Germany
XEBT	6.00	Mexico City, Mexico
YV2RC	5.80	Caracas, Venezuela
2 P.M.		
ORP	13.20	Brussels, Belgium
FYA	11.88	Paris, France
DJD	11.77	Berlin, Germany
GSD	11.75	Daventry, England
ORK	10.33	Brussels, Belgium
2RO	9.63	Rome, Italy
LKJ1	9.53	Jeloy, Norway
GSB	9.51	Daventry, England
COCH	9.42	Havana, Cuba
GSL	6.11	Daventry, England
OER2	6.07	Vienna, Austria
OXY	6.06	Skamlebaek, Denmark
PRA8	6.02	Pernambuco, Brazil
DJC	6.02	Berlin, Germany
XEBT	6.00	Mexico City, Mexico
HVJ	5.96	Vatican City, Italy
3 P.M.		
FYA	11.88	Paris, France
GSD	11.75	Daventry, England
ORK	10.33	Brussels, Belgium
2RO	9.63	Rome, Italy
LKJ1	9.53	Jeloy, Norway
GSB	9.51	Daventry, England
COCH	9.42	Havana, Cuba
COKG	6.15	Santiago, Cuba
GSL	6.11	Daventry, England
ZTJ	6.10	Johannesburg, Africa
OER2	6.07	Vienna, Austria
OXY	6.06	Skamlebaek, Denmark
PRA8	6.02	Pernambuco, Brazil
DJC	6.02	Berlin, Germany
XEBT	6.00	Mexico City, Mexico
RV59	6.00	Moscow, U.S.S.R.
4 P.M.		
FYA	11.88	Paris, France
DJD	11.77	Berlin, Germany
2RO	9.63	Rome, Italy
GSC	9.58	Daventry, England
LKJ1	9.53	Jeloy, Norway
GSB	9.51	Daventry, England
COCH	9.42	Havana, Cuba
COKG	6.15	Santiago, Cuba
ZTJ	6.10	Johannesburg, Africa
CRCX	6.09	Toronto, Canada
OER2	6.07	Vienna, Austria
OXY	6.06	Skamlebaek, Denmark
PRA8	6.02	Pernambuco, Brazil
DJC	6.02	Berlin, Germany
COCO	6.01	Havana, Cuba
XEBT	6.00	Mexico City, Mexico
RV59	6.00	Moscow, U.S.S.R.
YV2RC	5.80	Caracas, Venezuela
5 P.M.		
JVH	14.64	Nazaki, Japan
FYA	11.88	Paris, France
EAQ	9.86	Madrid, Spain
GSC	9.58	Daventry, England
GSB	9.51	Daventry, England
PRF5	9.50	Rio de Janeiro, Brazil
COCH	9.42	Havana, Cuba
COKG	6.15	Santiago, Cuba
ZTJ	6.10	Johannesburg, Africa
CRCX	6.09	Toronto, Canada
OER2	6.07	Vienna, Austria
OXY	6.06	Skamlebaek, Denmark
PRA8	6.02	Pernambuco, Brazil
COCO	6.01	Havana, Cuba
XEBT	6.00	Mexico City, Mexico
YV2RC	5.80	Caracas, Venezuela

EVENING

6 P.M.		
JVH	14.64	Nazaki, Japan
GSD	11.75	Daventry, England
FYA	11.72	Paris, France
EAQ	9.86	Madrid, Spain
GSC	9.58	Daventry, England
PRF5	9.50	Rio de Janeiro, Brazil
COCH	9.42	Havana, Cuba
TIRCC	6.55	San Jose, Costa Rica
COKG	6.15	Santiago, Cuba
CHNX	6.11	Halifax, Canada
ZTJ	6.10	Johannesburg, Africa
CRCX	6.09	Toronto, Canada
VE9CS	6.07	Vancouver, Canada
OXY	6.06	Skamlebaek, Denmark
PRA8	6.02	Pernambuco, Brazil
COCO	6.01	Havana, Cuba
XEBT	6.00	Mexico City, Mexico
YV2RC	5.80	Caracas, Venezuela
7 P.M.		
GSD	11.75	Daventry, England
FYA	11.72	Paris, France
EAQ	9.86	Madrid, Spain
GSC	9.58	Daventry, England
YV3RC	6.15	Caracas, Venezuela
COKG	6.15	Santiago, Cuba
CHNX	6.11	Halifax, Canada
CRCX	6.09	Toronto, Canada
PRA8	6.02	Pernambuco, Brazil
XEBT	6.00	Mexico City, Mexico
YV2RC	5.80	Caracas, Venezuela
8 P.M.		
DJD	11.77	Berlin, Germany
CJRX	11.72	Winnipeg, Canada
FYA	11.72	Paris, France
EAQ	9.86	Madrid, Spain
HP5J	9.59	Panama City, Panama
COCH	9.42	Havana, Cuba
RV72	6.61	Moscow, U.S.S.R.
CJRO	6.15	Winnipeg, Canada
COKG	6.15	Santiago, Cuba
CHNX	6.11	Halifax, Canada
ZTJ	6.10	Johannesburg, Africa
CRCX	6.09	Toronto, Canada
PRA8	6.02	Pernambuco, Brazil
HP5B	6.03	Panama City, Panama
XEBT	6.00	Mexico City, Mexico
YV2RC	5.80	Caracas, Venezuela
9 P.M.		
DJD	11.77	Berlin, Germany
FYA	11.72	Paris, France
CJRX	11.72	Winnipeg, Canada
EAQ	9.86	Madrid, Spain
HP5J	9.59	Panama City, Panama
LRX	9.58	Buenos Aires, Arg.
COCH	9.42	Havana, Cuba
CP6	9.12	La Paz, Bolivia
RV72	6.61	Moscow, U.S.S.R.
CJRO	6.15	Winnipeg, Canada
COKG	6.15	Santiago, Cuba
CHNX	6.11	Halifax, Canada
CRCX	6.09	Toronto, Canada
HP5B	6.03	Panama City, Panama
DJC	6.02	Berlin, Germany
XEBT	6.00	Mexico City, Mexico
YV2RC	5.80	Caracas, Venezuela
10 P.M.		
DJD	11.77	Berlin, Germany
CJRX	11.72	Winnipeg, Canada
LRX	9.58	Buenos Aires, Arg.
GSC	9.58	Daventry, England
COCH	9.42	Havana, Cuba
CJRO	6.15	Winnipeg, Canada
COKG	6.15	Santiago, Cuba
CHNX	6.11	Halifax, Canada
CRCX	6.09	Toronto, Canada
HP5B	6.03	Panama City, Panama
XEBT	6.00	Mexico City, Mexico
HJN	5.95	Bogota, Colombia
11 P.M.		
FYA	11.72	Paris, France
CJRX	11.72	Winnipeg, Canada
ZCK	8.75	Hong Kong, China
CJRO	6.15	Winnipeg, Canada
CHNX	6.11	Halifax, Canada
CRCX	6.09	Toronto, Canada
XEBT	6.00	Mexico City, Mexico

WORLD'S SHORT-WAVE BROADCAST STATIONS

Arranged Numerically

According to Meters and Megacycles

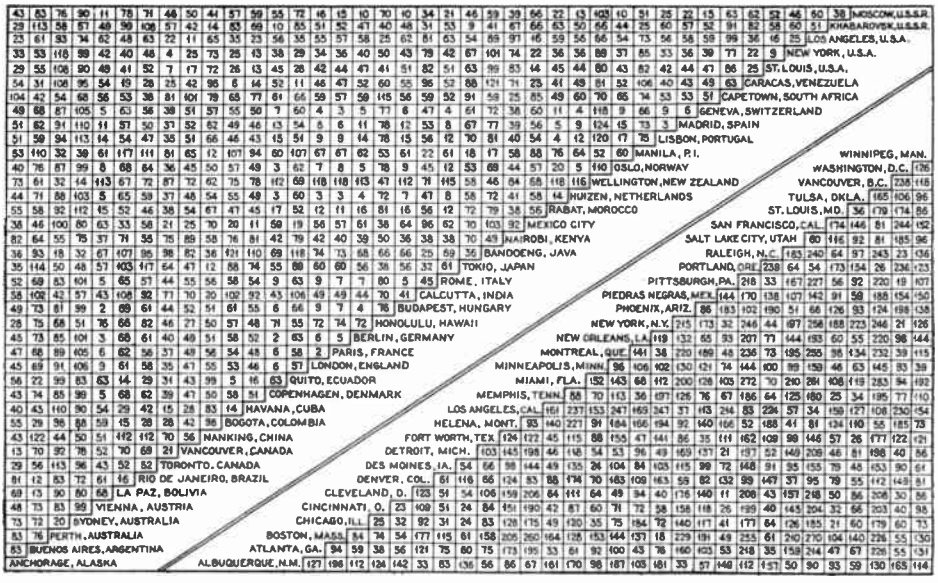
Wave-length Meters	*Call Letters*	*Fre-quency Meg.*	*City Country*
13.9	W8XK	21.54	Pittsburgh, Pa.
13.9	GSH	21.47	Daventry, England
16.8	GSG	17.79	Daventry, England
16.8	W3XAL	17.78	Bound Brook, N. J.
16.8	PHI	17.77	Huizen, Holland
16.8	DJE	17.76	Zeesen, Germany
19.5	HAS3 (HAS)	15.37	Budapest, Hungary
19.5	W2XAD	15.33	Schenectady, N. Y.
19.6	DJQ	15.28	Zeesen, Germany
19.6	W2XE	15.27	New York, N. Y.
19.6	GSI	15.26	Daventry, England
19.6	FYA	15.24	Pontoise, France
19.7	PCJ	15.22	Huizen, Holland
19.7	W8XK	15.21	Pittsburgh, Pa.
19.7	DJB	15.20	Zeesen, Germany
19.8	GSF	15.14	Daventry, England
19.8	HVJ	15.12	Vatican City
19.9	RKI	15.04	Moscow, U.S.S.R.
20.5	JVH	14.60	Nazaki, Japan
22.9	VP1A (VPD)	13.07	Suva, Fiji Islands
24.1	CT1GO	12.39	Parede, Portugal
24.8	CT1CT	12.08	Lisbon, Portugal
24.9	RW59	12.00	Moscow, U.S.S.R.
25.2	FYA	11.88	Pontoise, France
25.2	W8XK	11.87	Pittsburgh, Pa.
25.2	GSE	11.86	Daventry, England
25.3	W2XE	11.83	New York, N. Y.
25.4	I2RO	11.81	Rome, Italy
25.4	W1XAL	11.79	Boston, Mass.
25.4	DJD	11.77	Zeesen, Germany
25.5	GSD	11.75	Daventry, England
25.5	FYA	11.72	Pontoise, France
25.5	CJRX	11.72	Winnipeg, Canada
25.6	HJ4ABA	11.71	Medellin, Col.
27.9	JVM	10.74	Nazaki, Japan
28.1	JVN	10.66	Nazaki, Japan
28.9	LSX	10.35	Buenos Aires, Argen.
29.0	ORK	10.33	Ruysselede, Belgium
30.4	EAQ	9.86	Madrid, Spain
31.1	12RO	9.63	Rome, Italy
31.2	CT1AA	9.60	Lisbon, Portugal
31.2	W3XAU	9.59	Philadelphia, Pa.
31.2	VK2ME	9.59	Sydney, Australia
31.2	HP5J	9.59	Panama City, Panama
31.3	HBL	9.59	Geneva, Switzerland
31.3	VK3LR	9.58	Lyndhurst, Victoria, Australia
31.3	GSC	9.58	Daventry, England
31.3	W1XK	9.57	Springfield, Mass.
31.3	VUB	9.56	Bombay, India
31.3	DJA	9.56	Zeesen, Germany
31.4	DJN	9.54	Zeesen, Germany
31.4	LKJI	9.53	Jeloy, Norway
31.4	W2XAF	9.53	Schenectady, N. Y.
31.5	VK3ME	9.51	Melbourne, Australia
31.5	GSB	9.51	Daventry, England
31.5	PRF5	9.50	Rio de Janeiro, Brazil
31.8	COH	9.42	Havana, Cuba
31.8	PLV	9.41	Bandoeng, Java
32.8	HAT4	9.12	Budapest, Hungary
33.0	TFK	9.06	Reykjavik, Iceland
34.0	HKV	8.79	Bogota, Col.
34.2	ZCK (ZBW)	8.75	Hong Kong, China
35.6	HC2CW	8.40	Guayaquil, Ecuador
36.4	ZP10	8.22	Ascuncion, Paraguay
36.5	HCJB	8.21	Quito, Ecuador
38.2	HC2JSB	7.83	Guayaquil, Ecuador
38.4	HBP	7.79	Geneva, Switzerland
40.4	HJ3ABD	7.39	Bogota, Colombia
40.6	XECR	7.38	Mexico City, Mex.
41.1	HJ1ABD	7.28	Cartagena, Col.
41.7	CR6AA	7.17	Lobito, Angola, Port. West Africa
42.1	HB9B	7.11	Basle, Switzerland
42.3	P11J	7.08	Dordrecht, Holland
43.4	HI3C	6.90	La Romana, D. R.
44.0	H1H	6.81	San Pedro, D. R.
44.4	JVT	6.75	Nazaki, Japan
44.6	TIEP	6.71	San Jose, Costa Rica
45.0	HC2RL	6.66	Guayaquil, Ecuador
45.3	PRADO	6.61	Riobamba, Ecuador
45.3	RW72	6.61	Moscow, U.S.S.R.
45.7	TIRCC	6.55	San Jose, Costa Rica
45.9	YV6RV	6.52	Valencia, Ven.
46.2	HJ5ABD	6.49	Cali, Colombia
46.2	HI4D	6.48	San Domingo, D. R.
46.5	HJ1ABB	6.44	Barranquilla, Col.
46.8	YN1GG	6.40	Managua, Nicaragua
47.0	YV4RC	6.37	Caracas, Venezuela
47.4	HIZ	6.31	San Domingo, D. R.
48.1	OAX4B	6.23	Lima, Peru
48.1	HJ4ABC	6.23	Pereira, Colombia
48.1	HJ1ABH	6.22	Cienaga, Colombia
48.4	CT1GO	6.19	Parede, Portugal
48.4	HI1A	6.18	Santiago de Los Caballeros, D. R.
48.7	CJRO	6.16	Winnipeg, Manitoba
48.7	YV3RC	6.15	Caracas, Venezuela
48.7	VE9CL	6.15	Winnipeg, Man.
48.7	HJ5ABC	6.15	Cali, Colombia
48.7	CO9GC	6.15	Santiago, Cuba
48.8	W8XK	6.14	Pittsburgh, Pa.
48.9	ZGE	6.13	Kuala Lumpur, F. M. S.
49.0	W2XE	6.12	New York, N. Y.
49.0	YDA5	6.12	Bandoeng, Java
49.0	HRP1	6.11	San Pedro Sula, Honduras
49.0	HJ1ABE	6.11	Cartagena, Col.
49.0	VE9HX	6.11	Halifax, N. S.
49.0	VUC	6.10	Calcutta, India
49.1	W3XAL	6.10	Bound Brook, N. J.
49.1	W9XF	6.10	Chicago, Ill.
49.1	HJ4ABL	6.10	Manizales, Col.
49.1	ZTJ (JB)	6.09	Johannesburg, Africa
49.1	VE9GW	6.09	Bowmanville, Can.
49.3	CP5	6.08	La Paz, Bolivia
49.3	W9XAA	6.08	Chicago, Ill.
49.3	ZHJ	6.08	Penang, Straits Settlements
49.3	VQ7LO	6.08	Nairobi, Kenya, Africa
49.3	CQN	6.07	Macao, Asia
49.3	OER2	6.07	Vienna, Austria
49.3	VE9CS	6.07	Vancouver, B. C.
49.3	HJ1ABF	6.07	Barranquilla, Col.
49.4	W8XAL	6.06	Cincinnati, Ohio
49.4	W3XAU	6.06	Philadelphia, Pa.
49.4	OXY	6.06	Skamlebaek, Den.
49.6	HJ1ABG	6.04	Barranquilla, Col.
49.7	HP5B	6.03	Panama City, Pan.
49.7	VE9CA	6.03	Calgary, Alberta, Can.
49.8	DJC	6.02	Zeesen, Germany
49.8	PRA8	6.02	Pernambuco, Brazil
49.8	ZHI	6.01	Singapore, Malaya

WORLD'S SHORT-WAVE BROADCAST STATIONS

(CONTINUED)

Wave-length Meters	*Call Letters*	*Frequency Meg.*	*City Country*
49.8	COC	6.01	Havana, Cuba
49.9	HJ1ABJ	6.00	Santa Marta, Col.
49.9	VE9DN	6.00	Montreal, Canada
49.9	XEBT	6.00	Mexico City, Mex.
49.9	TGWA	6.00	Guatemala City
49.9	RW59	6.00	Moscow, U.S.S.R.
50.1	CT1AA	5.98	Lisbon, Portugal
50.1	HIX	5.98	San Domingo, D. R.
50.1	XECW	5.97	Xantocam, Mexico
50.2	HJ3ABH	5.97	Bogota, Col.
50.2	HJ2ABC	5.97	Cucuta, Colombia
50.2	HVJ	5.96	Vatican City
50.6	HJ4ABE	5.93	Medellin, Colombia
51.1	HI1J	5.86	San Pedro de Macoris D. R.
51.2	YV5RMO	5.85	Maracaibo, Venz.
51.4	TIGPH	5.82	San Jose, Costa Rica
51.8	OAX4D	5.78	Lima, Peru
64.5	HC2ET	4.65	Guayaquil, Ecuador
70.2	RV15	4.27	Khabarovsk, Siberia
74.9	CT2AJ	4.00	San Miguel, Azores
79.5	HB9B	3.77	Basle, Switzerland
79.9	CT1CT	3.75	Lisbon, Portugal
84.6	CR7AA	3.54	Lourenzo Marques, Mozambique
85.0	HB9AQ	3.52	Lausanne, Switzerland

United States and World-wide Mileage Chart

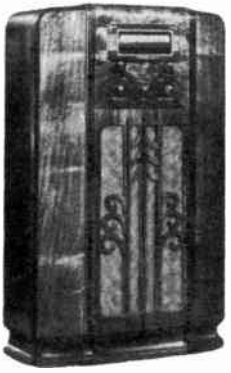


To determine mileage between any two of the listed cities in the world, first find these two cities on the world chart (top triangle). Follow the horizontal column across the chart from the upper city, and the vertical column up from the lower city. The box at which these two columns intersect shows the required mileage *in hundreds of miles*. The same method applies to the U. S. chart (lower triangle) except that mileages are shown *in tens*. All mileages show the shortest (great circle) paths between points.

GENERAL ELECTRIC

SENSATIONAL

Focused Tone RADIO



MODEL E-105

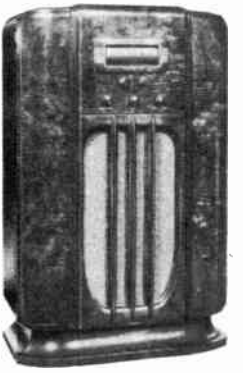
10-metal-tube console model. Three bands of reception—standard broadcasts; foreign programs; police, aviation and amateurs. Sentry Box. Colorama Dial. Automatic Frequency Control. Personalizer.

MODEL E-81

8-metal-tube table model. Three bands of reception—standard broadcasts; foreign programs; police, aviation and amateurs. Sentry Box.

MODEL E-91

9-metal-tube table model. Three bands of reception—standard broadcasts; foreign programs; police, aviation and amateurs. Sentry Box Colorama Dial.



MODEL E-155

15-metal-tube console. Five bands of reception—U. S. Weather Reports; standard broadcasts; foreign programs; police, aviation and amateurs; ultra short-wave. Sentry Box. Colorama Dial. Automatic Frequency Control. Personalizer. Silent Tuning.

MODEL E-76

7-metal-tube console model. Three bands of reception—standard broadcasts; foreign programs; police, aviation and amateurs.

MODEL E-68

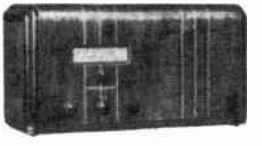
6-metal-tube console model. Two bands of reception—standard broadcasts as well as foreign programs; police, aviation and amateurs.

MODEL E-86

8-metal-tube console model. Three bands of reception—standard broadcasts; foreign programs; police, aviation and amateurs. Sentry Box.

MODEL E-62

6-metal-tube table model. Two bands of reception—standard broadcasts as well as foreign programs; police, aviation and amateurs.



MODEL E-72

7-metal-tube table model. Three bands of reception—standard broadcasts; foreign programs; police, aviation and amateurs.

MODEL E-95

9-metal-tube console model. Three bands of reception—standard broadcasts; foreign programs; police, aviation and amateurs. Sentry Box. Colorama Dial.

OTHER MODELS ON DISPLAY AT YOUR G-E RADIO DEALER

How to Tune In the Radio Universe

One of the first requisites for successful and satisfactory broadcast reception—particularly in the reception of short-wave programs—is to insure that your antenna system is correctly designed and installed to reproduce the best results.

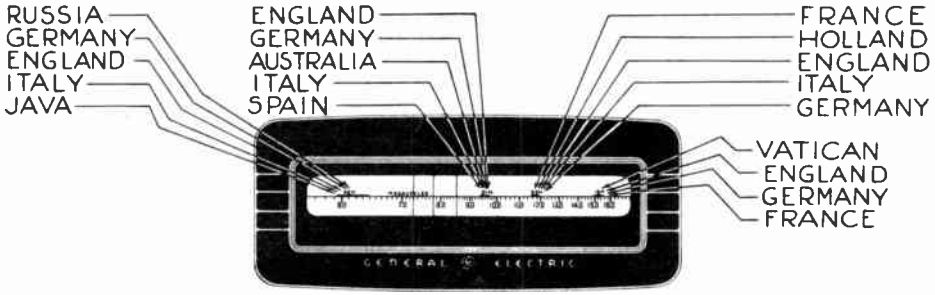
Consult the Listener's Guide for the frequency of the station you desire to tune in. Good standard American broadcast reception is very easy to obtain with a G-E Focused-tone Radio. You merely adjust the tuning knob until the dial focuses to *bright green.* In tuning for short-wave programs, the procedure differs but little from that followed when selecting a standard broadcast station, except that tuning must be more exact. Haphazard twisting of the tuning control is a waste of time. The successful radio-world tourist goes after his station like a scientist seeking a missing element.

The first move is to make sure that the station sought is actually on the air at the time. Because foreign short-wave stations operate largely on an experimental basis, they frequently shift their schedules and wave-lengths as occasions require it. While the frequencies and program schedules shown in the Listener's Guide were correct at the time of printing, changes will occur from time to time.

Until you have had considerable experience in short-wave dialing, it is well to confine your efforts in the vicinity of the 19-, 25-, 31-, and 49-meter bands where the best "catches" are found.

When the approximate dial location is found, the tuning knob must be rotated *very slowly* and *carefully* back and forth and the volume control adjusted until the signal is recognized. Then by still closer and finer tuning the signal is built up to a volume sufficient to identify the program. It is considered good practice to have several stations in mind so that if the signal of one does not happen to be strong, or is interfered with by atmospheric disturbances, a search may be made for another station.

General Electric Focused-tone Radio models are equipped with sliding-rule tuning scales. This convenient device lists all stations in a straight line—using a separate scale for each band. It's as "easy to read as a ruler." Station tuning is further simplified through a unique "automatic vernier" reduction drive which permits either rapid tuning or slow speed tuning without manual shifting of the tuning knob.



The above illustration shows the location on the dial of but a few among the many foreign countries that can be tuned in via the radio waves

WHAT YOU GET ON THE DIAL OF A GENERAL ELECTRIC FOCUSED-TONE RADIO

Scale A—140 to 410 kc.—U. S. Weather Reports.

Scale B—540 to 1720 kc.—Standard American Broadcasts: Police Call Band.

Scale C—1720 to 7000 kc. (1.7 to 7.0 meg.)—Police Calls, Aviation, Amateurs. International short-wave programs on 49- and 41-meter bands.

Scale D—5800 to 18,000 kc. (5.8 to 18.0 meg.)—International short-wave programs on 49-, 41-, 31-, 25-, 19- and 16-meter bands.

Scale E—18,000 to 70,000 kc. (18.0 to 70.0 meg.)—International short-wave programs on 13-meter band. Ultra short-wave. Two-way police communications. Experimental broadcasts.

The Amateur Bands Are Full of Thrills

Tune in on the amateur bands and you may be amazed at the thousands of amateur signals that can be heard on these special channels set apart by International Treaty for amateur operation. In the United States alone, there are more than forty thousand enthusiasts engaged in amateur radio as a hobby.

Since 1913, amateur radio has been the principal, and in many cases the only, means of outside communication in nearly one hundred storm and flood emergencies in this country. As you listen-in over the amateur bands, you may sometimes thrill to a real drama being enacted right before your ears. During the flood disaster of March, 1936; the Florida Hurricanes of 1926, 1928 and 1935; the Southern California earthquake in 1933; and many other noteworthy emergencies, amateur radio operators were the sole means of communication with the outside world. While onrushing torrents or tornadoes tore down telephone and telegraph wires, ripped bridges from their pilings, and isolated communities, amateur radio enthusiasts stayed at their phones or keyboards to spread warnings, direct relief and furnish news and reports to those "outside" the stricken areas.

Amateur radio has also become an important part of our communications system. Today, practically no explorer starts from the United States on an expedition to remote parts of the world without completing arrangements to keep in contact with "home" through the medium of amateur radio.

Almost any hour of the day or night, you can tap the amateur bands and thrill to the interesting gossip of hundreds of operators who are in constant communication with one another in various parts of the amateur's radio world.

Broadcast Bands Used by Amateurs for Both Telegraph and Phone Communications

The 1.71 to 2.00 megacycles band (160 meters)

This band is very popular for radio-telephone work. The band is one of the widest amateur bands used from the standpoint of the number of stations that can be heard.

The 3.50 to 4.00 megacycles band (80 meters)

This band is best for hearing consistent domestic radio amateur communications. Much of the friendly human contact between amateurs takes place on this band.

The 14.00 to 14.40 megacycles band (20 meters)

This is the best band to listen in on during daylight hours for long-distance transmissions. This band is also used by amateurs in "working" foreign stations.

The 28.00 to 30.00 megacycles band (10 meters)

This is principally an experimental band. It combines both long-distance and local communications in one band.

The 56.00 to 60.00 megacycles band (5 meters)

This band is now used by many amateurs for local and short-distance communications.

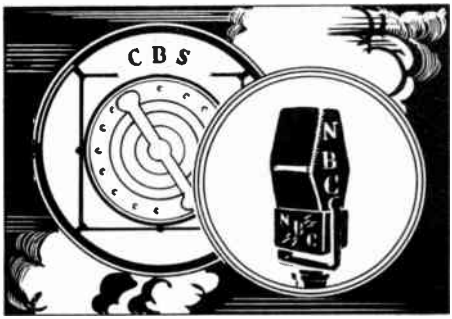
Listening To Aviation Reports

Every important air line keeps in radio contact with its planes *en route* from radio control points at airports located in various parts of the country. Pilots also receive radio instructions which direct their "take-off" and "landing." Radio is today making flying safe and eliminating the hazards of bad weather conditions, fog and night-time flying. You can tune in and hear the exchange of conversation between ground stations and pilots. Each air line uses its own radio frequencies. Here is a list of the frequencies, from ground to air and air to ground, that are used by important air lines.

Air Line	Night Frequency (Megacycles)	Day Frequency (Megacycles)
T W A	3.08	4.96
United Air Lines	3.11	5.57
Eastern Air Lines	2.92	4.12

Air Line	Night Frequency (Megacycles)	Day Frequency (Megacycles)
American Air Lines		
North division	3.12	5.61
East division	3.25	5.63
Central division	3.23	4.91
West division	3.23	5.60

Chain Network Programs Broadcast via Short Waves



Many of the programs broadcast on standard radio stations may also be heard over domestic short-wave stations. Both the National Broadcasting Company and the Columbia Broadcasting System have such short-wave relay connections. Radio listeners in all parts of the world may tune in programs originating in certain key stations of these two great broadcasting companies.

In remote sections of the United States, where standard radio reception is not so extensive as in the more metropolitan areas, these short-wave associated stations fill the need for continuous entertainment, particularly during daylight hours. Often when atmospheric conditions make it unpleasant or impossible to listen in on the regular broadcast band, the same network program, free from annoying disturbances, may be heard to excellent advantage via short-wave transmission.

American Short-wave Stations Transmitting Standard Broadcast Programs

Call Letters	*Location*	*Megacycles*	*Corresponding Standard Broadcast Stations*	*On The Air (E.S.T.)*	
W3XAU	Philadelphia, Pa.	9.59 6.06	WCAU (CBS)	12:00 Noon– 8:00 P.M. 8:00 P.M.–11:00 P.M.	Daily Daily
W2XE	Wayne, N. J.	21.52 17.76 15.27 11.83 6.12	WABC (CBS)	10:00 A.M.–11:00 A.M. 11:00 A.M.– 1:00 P.M. 1.00 P.M.– 6:00 P.M. 6:00 P.M.–10:00 P.M. 10:00 P.M.–11:00 P.M.	Daily Daily Daily Daily Daily
W2XAD	Schenectady, N. Y.	15.35	WGY (NBC-Red)	10:30 A.M.– 4:00 P.M.	Sundays
W2XAF	Schenectady, N. Y.	9.53	WGY (NBC-Red)	11:30 A.M.– 4:00 P.M. 4:00 P.M.–Midnight	Daily Daily
CRCX	Bowmanville, Ontario	6.09	CRCT (NBC-Red & Blue) (Canadian Radio Commission)	5:30 P.M.–11:30 P.M. 11:45 A.M.–11:30 P.M.	Weekdays Sundays
W9XF	Chicago, Ill.	6.10	WENR (NBC-Red & Blue)	9:00 P.M.– 2:00 A.M. 1:00 A.M.– 2:00 A.M.	(S.T.T.F.) (M.W.S.)
W8XAL	Cincinnati, O.	6.06	WLW (NBC-Red & Blue—Mutual Broadcasting System)	7:30 A.M.– 9:00 P.M. 12:00 Mid.– 3:00 A.M. 9:00 A.M.– 9:00 P.M. 12:00 Mid.– 3:00 A.M. 7:30 A.M.– 9:00 P.M. 12:00 Mid.– 4:00 A.M.	Weekdays (exc. Sat. & Sun.) Sundays Saturdays
W1XK	Boston, Mass.	9.57	WBZ (NBC-Blue)	7:00 A.M.– 1:00 A.M. 8:00 A.M.– 1:00 A.M.	Weekdays Sundays
W3XAL	Bound Brook, N. J.	17.78 6.10	WJZ (NBC-Blue)	9:00 A.M.–10:00 A.M. 6:00 P.M.– 1:00 A.M.	Daily (M.W.S.)
W9XAA	Chicago, Ill.	6.08	WCFL (NBC-Blue)	9:30 A.M.– 6:00 P.M. 11:30 A.M.– 9:00 P.M.	Daily Sunday
W8XK	Pittsburgh, Pa.	21.54 15.21 11.87 6.14	KDKA (NBC-Blue)	7:00 A.M.– 9:00 A.M. 7:00 A.M.– 4:15 P.M. 4:30 P.M.–11:00 P.M. 4:30 P.M.– 1:00 A.M.	Daily Daily Daily Daily

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