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COMMERCIAL AND GOVERNMENT

**RADIO STATIONS**

OF THE UNITED STATES

---

EDITION JUNE 30, 1929

*Dec. 26, 1929.*

DEC 26 1929

FRANK BLOSS  
755 E. 10th St.  
BOSTON, MASS.

UNITED STATES DEPARTMENT OF COMMERCE  
RADIO DIVISION



*Frank B. Cross. W 7KL - AFK - AFG*

UNITED STATES DEPARTMENT OF COMMERCE  
RADIO DIVISION

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UNITED STATES

*foreign 1/2 m 209 London phone.*

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UNITED STATES  
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**A**DDITIONAL COPIES of this publication may be procured from the Superintendent of Documents, United States Government Printing Office, Washington, D. C., at 15 cents per copy.

Copies of other publications of the Radio Division, Department of Commerce, may also be procured from the Superintendent of Documents, as follows: Amateur Radio Stations of the United States, 25 cents; Radio Service Bulletin (issued monthly as a supplement to this list), containing amendments to or changes in radio laws and regulations and items of general interest concerning their enforcement, with latest information concerning all radio stations (except amateur), 5 cents each or 25 cents per year.



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## NOTES

Supplements, under the title "Radio Service Bulletin," are issued monthly and distributed to the United States officers engaged in or concerned with the enforcement of the radio laws for their guidance and instruction and of those concerned with the operation of Government and commercial radio stations for their information. Amendments to or changes in the Radio Laws and Regulations of the United States are printed in this bulletin. Items of general interest concerning the enforcement of the radio laws are printed in the bulletin from time to time, as occasion warrants.

Copies of this bulletin may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents a copy or 25 cents a year.

In looking up a station in this list it should be borne in mind that names of stations consisting of several words, such as Samuel L. Fuller and Hillsborough County, have been placed where they would have appeared if their names consisted of only a single word. This is done in conformity with the publications of the International Bureau of the Telegraph Union, Radiotelegraph Service, Berne, Switzerland, and International Regulations.

### ABBREVIATIONS USED IN THIS LIST

#### Nature of service:

- O = Government business exclusively.
- P = Private (limited commercial and special).
- PG = General public (ship to shore).
- PR = Limited public (limited to public correspondence between fixed stations).

#### Hours of operation:

- N = Continuous service.
- X = No regular hours.
- Y = Sunrise to sunset.

Vessel owners: U. S. S. B. = United States Shipping Board.

#### Radio companies:

- I. R. T. Co. = Intercity Radio Telegraph Co.
- M. R. T. Co. = Mackay Radio & Telegraph Co.
- R. C. A. = Radio Corporation of America
- R. M. C. A. = Radiomarine Corporation of America.
- T. R. T. Co. = Tropical Radio Telegraph Co.

#### Classification:

- AB = Aviation beacon.
- B = Ship station.
- FA = Aeronautical station.
- FC = Coast station.
- FX = Fixed station (point-to-point communication).
- RF = Radiobeacon.
- RG = Radio compass station.
- Δ = Equipped with radio compass.

#### Geographical location:

- W = West longitude.
- E = East longitude.
- N = North latitude.
- S = South latitude.

# COMMERCIAL AND GOVERNMENT RADIO STATIONS OF THE UNITED STATES

## INTRODUCTION

This publication is promulgated in accordance with section 5, paragraph H, of the radio act of 1927, approved February 23.

It contains a complete list of the commercial and Government land and ship stations, aircraft, broadcasting, experimental relay broadcasting, visual broadcasting, and technical and training-school stations. A complete list of amateur radio stations of the United States is printed separately, copies of which are available only from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 25 cents per copy.

The following sections of the law are quoted for the information of those concerned:

Section 5, paragraph G, of the radio act of 1927, approved February 23, authorizes the Secretary of Commerce to designate call letters of all stations.

Section 28 provides that no person, firm, company, or corporation within the jurisdiction of the United States shall knowingly utter or transmit or cause to be transmitted any false or fraudulent signal of distress, or communication relating thereto, \* \* \*

Section 32 provides that any person, firm, company, or corporation failing or refusing to observe or violating any rule, regulation, restriction, or condition made or imposed by the licensing authority under the authority of this act or of any international radio convention or treaty ratified or adhered to by the United States, in addition to any other penalties provided by law, upon conviction thereof by a court of competent jurisdiction shall be punished by a fine of not more than \$500 for each and every offense.

Section 33 provides that any person, firm, company, or corporation who shall violate any provision of this act, \* \* \* upon conviction thereof in any court of competent jurisdiction shall be punished by a fine of not more than \$5,000 or by imprisonment for a term of not more than five years, or both, for each and every such offense.

Copies of the radio act of 1927 from which the above-cited paragraphs have been extracted may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents per copy.

The General Regulations of the International Radiotelegraphic Conventions provide that the call signals of stations in the international system must each be formed of a group of three letters for land stations, in international service, broadcasting stations excepted, and four letters for land stations not in international service and ship stations, which shall be distinguished from one another. The London International Radiotelegraphic Conference made a partial allotment of call letters among nations which signed the convention, and the International Bureau at Berne, with the consent of such nations, has modified and added to this assignment of call letters by

circulars April 1, 1914, and August 1, 1915. This has been further modified by the International Radiotelegraph Convention, Washington, 1927, effective January 1, 1929. The distribution of call signals among nations thus authorized is printed as follows for the guidance of operators of all stations (ship and shore) of the United States, and the radio public in general.

Call signal	Country	Call signal	Country
CAA-CEZ	Chile.	PPA-PYZ	Brazil.
CFA-CKZ	Canada.	PZA-PZZ	Surinam.
CLA-CMZ	Cuba.	Q	(Abbreviations.)
CNA-CNZ	Morocco.	RAA-RQZ	Union of Soviet Socialistic Republics.
CPA-CPZ	Bolivia.	RVA-RVZ	Persia.
CQA-CQZ <sup>1</sup>	Portuguese colonies.	RXA-RXZ	Republic of Panama.
CRA-CRZ		RYA-RYZ	Lithuania.
CSA-CUZ	Portugal.	SAA-SMZ	Sweden.
CVA-CVZ	Rumania.	SPA-SRZ	Poland.
CWA-CXZ	Uruguay.	STA-STZ <sup>1</sup>	Egypt.
CZA-CZZ	Monaco.	SUA-SUZ	
D	Germany.	SVA-SVZ	Greece.
EAA-EHZ	Spain.	TAA-TCZ	Turkey.
EIA-EIZ	Irish Free State.	TFA-TFZ	Iceland.
ELA-ELZ	Liberia.	TGA-TGZ	Guatemala.
ESA-ESZ	Estonia.	TIA-TIZ	Costa Rica.
ETA-ETZ	Ethiopia.	TSA-TSZ	Territory of the Saar Basin.
F	France and colonies and protectorates.	UHA-UHZ	Hedjaz.
G	Great Britain.	UIA-UKZ	Dutch East Indies.
HAA-HAZ	Hungary.	ULA-ULZ	Luxemburg.
HBA-HBZ	Switzerland.	UNA-UNZ	Kingdom of Serbs, Croats, and Slovenes.
HCA-HCZ	Ecuador.	UOA-UOZ	Austria.
HHA-HHZ	Haiti.	VAA-VGZ	Canada.
HJA-HJZ	Dominican Republic.	VHA-VMZ	Australia.
HKA-HKZ	Colombia.	VOA-VOZ	Newfoundland.
HRA-HRZ	Honduras.	VPA-VSZ	British colonies and protectorates.
HSA-HSZ	Siam.	VTA-VWZ	British India.
I	Italy and colonies.	W	United States of America.
J	Japan.	XAA-XPZ	Mexico.
K	United States of America.	XGA-XUZ	China.
LAA-LNZ	Norway.	YAA-YAZ	Afghanistan.
LOA-LVZ	Argentina.	YHA-YHZ	New Hebrides.
LZA-LZZ	Bulgaria.	YIA-YIZ	Iraq.
M	Great Britain.	YLA-YLZ	Latvia.
N	United States of America.	YMA-YMZ	Free City of Danzig.
OAA-OBZ	Peru.	YNA-YNZ	Nicaragua.
OCA-OCZ <sup>1</sup>		YSA-YSZ	Republic of El Salvador.
OFA-OFZ <sup>1</sup>	Finland.	YVA-YVZ	Venezuela.
OHA-OHZ	Czechoslovakia.	ZAA-ZAZ	Albania.
OKA-OKZ		ZBA-ZDZ <sup>1</sup>	British colonies and protectorates.
ONA-OTZ	Belgium and colonies.	ZKA-ZMZ	New Zealand.
OUA-OZZ	Denmark.	ZPA-ZPZ	Paraguay.
PAA-PIZ	Netherlands.	ZSA-ZUZ	Union of South Africa.
PJA-IJZ	Curacao.		
PKA-POZ	Dutch East Indies.		

<sup>1</sup> Provisionally.

The call signals assigned to the United States are all three and four letter combinations, beginning with the letters K, N, and W. The international call signals assigned to the United States are reserved for Government stations and stations open to public and limited commercial service.

All combinations beginning with the letter N are reserved for Government stations, and, in addition, the combinations from WUA to WWZ and WXA to WZZ are reserved for stations of the United States Army. A number of other combinations are reserved for stations of other Government services and the Philippine insular government.

During the World War the combinations of three letters beginning with K, W, and N were exhausted, and it was necessary to assign combinations of four letters beginning with K, W, and N.

## RADIO STATIONS OF THE UNITED STATES

Operators should be careful in transmitting call signals to avoid confusion between the three and the four letter combinations.

In the case of experimental, relay broadcasting, visual broadcasting, technical and training school, and amateur stations, the signal consists of the letter W for stations in the continental limits of the United States and the letter K for those in detached territories, and a single figure indicating the radio district in which the station is located, followed by a group of not more than three letters. There are only nine districts, however, the figures 10 (ten) have been assigned to several portable stations.

## RADIO STATIONS OF THE WORLD

The International Bureau of the Telegraph Union, Radiotelegraph Service, Berne, Switzerland, has for distribution the publications named hereunder at the prices indicated:

	Swiss francs (gold)
Fixed and land stations, first edition, January, 1929 .....	7½ (\$1.50)
Stations performing special services, first edition, March, 1929 (includes radio-compass, radiobeacon, and stations transmitting time signals, meteorological information, notices to mariners, and press notices) .....	7½ (\$1.50)
Ship stations, first edition, February, 1929 .....	12 (\$2.40)
Aircraft stations, first edition, April, 1929 .....	4½ (\$0.90)
Broadcasting stations, first edition, April, 1929 .....	4½ (\$0.90)

The price includes postage and all supplements, which are issued monthly and contain new stations and tables of alterations, to the end of the current year. Remittances to Berne should be made by international postal money orders. Do not send remittances to this department.

In addition to the information contained in the list of the United States stations, published by the Radio Division, the international list shows geographical locations, power used, types of emission, and rates. Tables of land line and cable charges from coast radio stations to inland and various other points are also included in the list of fixed and land stations. In computing the total word rate applicable to a radiogram from a ship station to an inland point, or vice versa, the three rates must be added. The rates in the international list are stated in francs and centimes. A copy each of the first three lists named above should be in every land and ship station open to commercial business, as the official tariff book and a copy of this list are required to be a part of the equipment of every land station open to general public service and every ship station of the first or second class on American vessels engaged in foreign trade or the trans-oceanic service. The international alphabetical list of call signals (stations of the world) is also issued by the International Bureau at Berne, and supplements are issued monthly. A new edition is contemplated, however, the price has not been determined at this time.

W. D. TERRELL,  
*Chief, Radio Division.*

Approved.

R. P. LAMONT,  
*Secretary of Commerce.*



COMMERCIAL LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Aberdeen, Wash.	FC, FX	KZE	183 (1,640), 480 (650), 500 (600)	P	X	Grays Harbor Stevedore Co.
Abulug, P. I., radio (Cagayan)		KAU	300 (1,000), 600 (500)	PG	(1)*	Philippine Insular Government.
Akron, Ohio	FX	WTF	7,775 (38.58), 19,780 (15.167)	PR	X	United States Liberia Radio Corp.
Akutan, Alaska (Aleutian Islands)	FC	KMW	445 (675), 500 (600)	P	X	The Warehouse Co.
Alabat, P. I., radio (Tayabas)	FC	KBA	273 (1,100), 400 (750), 500 (600)	PG	(2)	Philippine Insular Government.
Alameda, Calif.	FX	KFU	7,597 (39.45)	P	X	Alaska Packers' Assn.
Do.	FC	KLR	2446 (122.65)	P	X	Harbor Tug & Barge Co.
Albuquerque, N. Mex.	FX	KGSD	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express.
Do.	FA, AB	KSI	414 (724.6)	P	X	Transcontinental Air Transport (Inc.).
Alitak, Alaska (Kodiak Island)	FC, FX	KYL	180 (1,667), 429 (700), 500 (600)		X	Alaska Packers' Assn.
Allentown, Pa.	FX	WHC	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,328 (92.65), 3,244 (92.5)	P	(3)	Pennsylvania Power & Light Co.
Alpena, Mich., radio	FC, FX	WGI	174 (1,725), 410 (730), 425 (705)	PG, PR	N	Alpena Marine Radio Service.
Alpena, Mich.	FX	WNO	163 (1,840)	P	X	Huron Transpn. Co.
Altoona, Pa.	FX	WHL	250 (1,200)	P	X	Pennsylvania Railroad.
Amarillo, Tex.	FX	KGSE	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express.
Anchorage, Alaska, radio	FC	KWL	200 (1,500), 500 (600)	PG	(4)	Alaska Railroad.
Annette Island, Alaska, radio	FC, FX	KFA	283 (1,060), 425 (705), 500 (600)	PG, PR	X	Annette Island Packing Co.
Anniston (permanently moored vessel near Mobile, Ala.)	FX	WPK	425 (705), 500 (600)	P	X	U. S. S. B.
Aparri, P. I., radio (Cagayan)	FC	KAW	273 (1,100) to 545 (550, 353 850)	PG	(6)	Philippine Insular Government.
Ashfork, Ariz.	FX	KGSZ	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express.
Austin, Tex.	FX	KGSJ	do.	P	X	Do.
Bacharof, Alaska	FX	KUD	180 (1,667), 429 (700), 500 (600)	P	X	Alaska Packers' Assn.
Bakersfield, Calif.	FA, FX	KXQ	5,570 (53.86)	FA, P	N	Boeing Air Transport (Inc.)
Balabac, P. I., radio (Palawan)	FC	KEW	250 (1,200), 500 (600)	PG	(7)	Philippine Insular Government.
Balangiga, P. I., radio (Samar)	FC	KBL	315 (950), 382 (785), 500 (600)	PG	(8)	Do.
Baler, P. I., radio (Tayabas)	FC	KBR	366 (820), 500 (600), 750 (400)	PG	(9)	Do.
Baltimore, Md.	FX	WEQ	1,712 (175.23)	P	N	Board of Fire Commissioners.
Baltimore, Md., radio	FC	WMH	135 (2,222), 143 (2,100), 418 (720), 500 (600)	PG	N	R. M. C. A.
Barstow, Calif.	FX	KGSY	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express.
Bartelsville, Okla.	FX	KJM	169 (1,775)	P	X	Phillips Petroleum Co.
Basco, P. I., radio (Batanes)	FC	KAB	158 (1,900), 200 (1,500), 250 (1,200), 315 (952), 500 (600)	PG	(10)	Philippine Insular Government.
Batangas, P. I., radio (Batangas)	FC	KPC	100 (3,000), 158 (1,900), 200 (1,500), 250 (1,200), 316 (950), 375 (800), 500 (600), 750 (400)	PG	(11)	Do.
Baytown, Tex.	FX	KJV	438 (685), 500 (600)	P	X	Humble Oil & Refining Co.
Bear Creek, Alaska	FX	KUY	8,100 (37.04)	P	X	New York-Alaska Gold Dredging Co.
Beaumont, Tex.	FX	WOD	438 (685), 500 (600)	P	X	Magnolia Petroleum Co.
Belmar, N. J. (See New Brunswick, N. J.)	FX	WII				
Berkeley, Calif.	FX	KSW	1,712 (175.23)	P	X	Berkeley Police Department.
Big Port Walter, Alaska	FX	KPV	410 (730), 500 (600), 5,010 (59.88)	P	X	Port Walter Herring & Packing Co.
Birmingham, Ala.	FX	WPM	169 (1,775), 274 (1,095), 3,420 (87.7), 6,515 (46.05)	P	X	Inland Waterways Corp.
Boca de Quadra, Alaska	FX	KZS	180 (1,667), 429 (700)	P	X	A. A. McCue.

RADIO DIVISION, DEPARTMENT OF COMMERCE

RADIO STATIONS OF THE UNITED STATES

Bolinas, Calif.	FX	KEB	6,852.5 (43.778)	PR	N	R. C. A. Communications (Inc.).
Do.	FX	KEE	7,715 (38.89)	PR	N	Do.
Do.	FX	KEI	10,820 (28.249)	PR	N	Do.
Do.	FX	KEJ	9,010 (33.30)	PR	N	Do.
Do.	FX	KEL	6,860 (43.732)	PR	N	Do.
Do.	FX	KEM	15,490 (19.367)	PR	N	Do.
Do.	FX	KEN	6,848 (43.828)	PR	N	Do.
Do.	FX	KER	10,390 (28.874)	PR	N	Do.
Do.	FX	KES	10,410 (28.819)	PR	N	Do.
Do.	FX	KET	22.90 (1.310)	PR	N	Do.
Do.	FX	KEZ	10,400 (28.846)	PR	N	Do.
Do.	FX	KKL	15,475 (19.386)	PR	N	Do.
Do.	FX	KKQ	11,950 (25.105)	PR	N	Do.
Do.	FX	KKR	15,460 (19.405)	PR	N	Do.
Do.	FX	KKW	15,445 (19.424)	PR	N	Do.
Do.	FX	KKZ	13,690 (21.914)	PR	N	Do.
Do.	FX	KLL	13,720 (21.914)	PR	N	Do.
Do.	FX	KMM	20,780 (14.37)	PR	N	Do.
Bolinas, Calif., radio	FC	KPH	126 (2.381), 136 (2.206), 143 (2.098), 436 (688), 500 (600), 5,525 (54.3), 6,440 (46.58), 8,430 (35.59), 11,050 (27.15), 12,520 (23.96), 12,550 (23.90), 16,575 (18.10), 16,580 (18.094), 21,940 (13.674), 21,980 (13.649), 22,100 (13.575).	PG	N	R. M. C. A.
Bolinas, Calif.	FX	KQG	18,000 (16.667)	PR	N	R. C. A. Communications (Inc.).
Do.	FX	KQJ	18,020 (16.648)	PR	N	Do.
Do.	FX	KQR	18,040 (16.630)	PR	N	Do.
Do.	FX	KQZ	17,980 (16.685)	PR	N	Do.
Do.	FX	KSS	20,820 (14.406)	PR	N	Do.
Do.	FX	KUN	18,060 (16.611)	PR	N	Do.
Bongao, P. I., radio (Sulu)	FC	KWE	15,430 (19.443)	PR	N	Do.
Borger, Tex. (near)	FX	KEO	500 (600)	PR	N	Do.
Borongan, P. I., radio (Samar)	FC	KJS	169 (1.775)	PG	(7)	Philippine Insular Government.
Boston, Mass., radio	FC, FX	KBN	316 (950), 387 (775), 500 (600)	P	X	Phillips Petroleum Co.
		WBF	143 (2.100), 147 (2.041), 436 (688), 500 (600), 4,172 (71.908), 5,525 (54.3), 6,785 (44.2), 8,550 (35.09), 10,470 (28.7), 11,050 (27.15), 12,370 (24.25), 12,970 (23.15), 16,575 (18.099), 17,580 (17.065), 22,100 (13.575), 22,400 (13.393).	PG, PR	(12)	Philippine Insular Government.
Boston, Mass.	FC	WEY	1,596 (187.97)	P	X	T. R. T. Co.
Do.	FX	WMP	1,712 (175.23)	P	N	Boston Fire Department.
Bradenton, Fla.	FX	WNE	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5).	P	X	Commonwealth of Massachusetts, State Police.
Breckenridge, Tex.	FX	KSU	169 (1.775), 182 (1.650)	P	X	Florida Power & Light Co.
Brownsville, Tex.	FA, FX	KGJW	4,124 (72.744), 6,395 (46.911)	P	X	Phillips Petroleum Co.
Buffalo, N. Y., radio <sup>13</sup>	FC, FX	WAM	165 (1,820), 171 (1,755), 410 (730), 425 (705), 4,116 (72.88), 8,630 (34.76)	P	X	Pan American Airways (Inc.).
Do. <sup>13</sup>	FC, FX	WBL	143 (2,100), 161 (1,865), 410 (730), 425 (705), 454 (660), 4,775 (62.82), 5,525 (54.3), 8,570 (35.01).	PG, PR	(14)	I. R. T. Co.
Buffalo, N. Y.	FX	WMJ	1,712 (175.23)	PR, PG	N	R. C. A.
Butler, Pa.	FX	WBR	250 (1,200)	P	X	City of Buffalo, Police Department.
Do.	FX	WHJ	3,160 (94.9), 3,166 (94.75), 3,172 (94.57), 3,178 (94.4), 3,184 (94.22), 3,238 (96.65), 3,244 (92.47).	P	X	Pennsylvania State Police.
				P	X	West Penn Power Co.

\* See footnotes to this table on p. 25.

COMMERCIAL LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Butuan, P. I.	FX	KBT	6,993 (42.9)	P		Philippine Insular Government.
Cagayan de Sulu, P. I., radio (Sulu)	FC	KEV	400 (750)	PG	(15)	Do.
Calapan, P. I., radio (Mindoro)	FC	KAN	429 (700), 500 (600), 750 (400)	PG	(15)	Do.
Camiguin Island, P. I.	FX	KTX		P	X	Camiguin Lumber Co.
Camp Eustis, Va., Flagship Div. 1	FX	WFP	425 (705), 500 (600)	P	X	U. S. S. B.
Candle, Alaska	FX	KGF	414 (725), 430 (625), 500 (600)	PR	(16)	Robinson & Greenberg.
Cape Chacon, Alaska	FC, FX	KFN	180 (1,667), 190 (1,578), 500 (600)	P, PR	X	Alaska Pacific Salmon Corp.
Caramoan, P. I., radio (Camarines Sur)	FC	KAR	255 (1,175), 316 (950), 500 (600)	PG	(17)	Philippine Insular Government.
Catanauan, P. I., radio (Tayabas)	FC	KZKN	273 (1,100) to 545 (550), 400 (750)	PG	(5)	Do.
Catbalogan, P. I., radio (Samar)	FC	KAC	273 (1,100), 308 (975), 353 (850), 400 (750), 500 (600), 632 (475)	PG	(15)	Do.
Cebu, P. I., radio	FC	KPI	125 (2,400), 187 (1,600), 250 (1,200), 300 (1,000), 500 (600), 6,897 (43.5)	PG	(16)	Do.
Cebu, P. I.	FX	KTL	5484 (54.7)	PR	N	Radio Corporation of the Philippines.
Cebu, P. I. (KUI)	FX	KUI	6,383 (47)	P	X	Macleod & Co.
Cedar Falls, Wash.	FX	KFR	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	City of Seattle, Light Dept.
Cedar Rapids, Iowa	FA, FX	KRA	2,506 (119.7), 3,166 (94.8), 3,172 (94.6), 3,286 (91.2), 4,188 (71.6), 5,585 (53.7), 5,990 (50.08)	P	X	Boeing Air Transport (Inc.)
Ceiba, P. R., radio	FC, FX	WKK	186 (1,610), 438 (685), 500 (600), 1,592 (188.44), 5,525 (54.3), 6,515 (46.05), 5,769 (52)	PG, PR	(20)	Bureau of Insular Telegraph.
Charleroi, Pa.	FX	WBV	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	N	West Penn Power Co.
Chatham, Alaska	FC, FX	KGIN	179 (1,676), 191 (1,571), 428 (700), 500 (600)	P, PR	X	New England Fish Co.
Chatham, Mass. (See Marion, Mass.)	FX	WSO				
Cheat Haven, W. Va.	FX	WHH	3,160 (94.9), 3,166 (94.75), 3,172 (94.57), 3,178 (94.4), 3,184 (94.22), 3,238 (92.65), 3,244 (92.47)	P	X	West Penn Power Co.
Cheboygan, Mich.	FX	WPJ	171 (1,755)	P	X	Warren W. Katham.
Cheyenne, Wyo.	FA, FX	KOE	2,506 (119.7), 3,010 (99.7), 3,286 (91.2), 4,188 (71.6), 5,585 (53.7), 5,990 (50.08)	P	X	Boeing Air Transport (Inc.)
Chicago, Ill.	FA, FX	WBQ	do.	P	X	Do.
Chicago, Ill., radio <sup>21</sup>	FC, FX	WFL	154 (1,950), 165 (1,820), 410 (730), 425 (705)	PG, PR	(22)	I. R. T. Co.
Do. <sup>23</sup>	FC, FX	WGO	143 (2,100), 167 (1,795), 410 (730), 425 (705), 454 (660), 4,775 (62.827), 5,525 (54.3), 8,570 (35.01)	PG, PR	X	Illinois Radio Corporation of America.
Chicago, Ill.	FX	WMDA	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.)
Do.	FX	WOF	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Commonwealth Edison Co.
Chichagof, Alaska, radio	FC, FX	KRX	343 (875), 500 (600)	PG, PR	X	Chichagof Development Co.
Chignik, Alaska	FC, FX	KHC	180 (1,667), 186 (1,610), 429 (700), 500 (600)	P, PR	X	Alaska Packers Assn.
Do.	FC, FX	KJB	180 (1,667), 414 (725), 500 (600)	P, PR	X	Northwestern Fisheries Co.
Do.	FC, FX	KNP	182 (1,650), 480 (625), 500 (600)	P, PR	X	Columbia River Packers Assn.
Chomly, Alaska	FC, FX	KDP	180 (1,667), 500 (600)	P, PR	(23a)	Alaska Consolidated Canneries.
Clarks Point, Alaska	FX	KHG	180 (1,667), 429 (700), 500 (600)	P, PR	X	Alaska Packers Assn.



Clearwater, Calif. (Los Angeles).....	FX	KNR	55.36 (5,420), 79.32 (3,782), 92.76 (32.34), 4,396 (68.243), 4,400.5 (68.18), 4,405 (68.10), 4,410 (68.02), 4,415 (67.95), 5,975 (50.20), 5,982.5 (50.15), 5,990 (50.083), 7,662.5 (39.15), 7,737.5 (38.75), 7,752.5 (38.70), 8,980 (33.41), 10,170 (29.50), 10,820 (27.73), 10,890 (27.55), 13,015 (23.05), 17,140 (17.503).	(24)	M. R. T. Co.
Clearwater, Calif. (Los Angeles), radio.	FC	KOK	418 (730), 500 (600), 4,196 (71.496), 5,525 (54.3), 8,670 (34.60), 11,050 (27.15), 11,380 (26.36), 16,575 (18.009), 16,580 (18.094), 16,900 (17.751), 21,620 (13.876), 22,100 (13.575).	PG	N Do.
Cleveland, Ohio, radio <sup>25</sup>	FC, FX	WTK	165 (1,818), 171 (1,754), 340 (875), 419 (715), 4,116 (72.886), 5,570 (53.96), 5,615 (53.42), 8,370 (35.84), 8,630 (34.76).	PG, PR	N I. R. T. Co.
Cleveland, Ohio.....	FX	WTL	165 (1,818), 171 (1,754), 4,116 (72.9), 8,630 (34.76)	PR	N Do.
Clovis, N. Mex.....	FX	KGTC	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	PR	X Western Air Express (Inc.).
Do.....	FA, AB	KST	420 (714)	P	X Transcontinental Air Transport (Inc.).
Columbus, Ohio.....	FX	WCL	165 (1,818), 171 (1,754)	PR	(26) I. R. T. Co.
Do.....	FA, AB	WIIG	393 (763)	P	X Transcontinental Air Transport (Inc.).
Connellsville, Pa.....	FX	WOB	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5).	P	N West Penn Power Co.
Culion, P. I., radio (Palawan).....	FC	KPJ	500 (600)	PG	(2) Philippine Insular Government.
Cumberland, Md.....	FX	WKZ	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5).	P	X Potomac Edison Co.
Cuyo, P. I., radio (Palawan).....	FC	KIX	353 (850), 500 (600)	PG	(12) Philippine Insular Government.
Dallas, Tex.....	FX	KGSK	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X Western Air Express (Inc.).
Do.....	FX	KVP	1,712 (175.23)	P	X City of Dallas, Police and Fire Signal Dept.
Daly, Alaska.....	FX	KDJ	283 (1,060)	PR	X Alaska-Portland Packers Association.
Dapa, P. I., radio (Surigao).....	FC	KBD	300 (1,000) to 500 (600)	PG	(12) Philippine Insular Government.
Dapitan, P. I., radio (Zamboanga).....	FC	KAD	214 (1,400) to 500 (600)	PG	(27) Do.
Darlington, N. (near).....	FX	WSY	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5).	P	X Susquehanna Power Co.
Davao, P. I., radio (Mindanao).....	FC	KIF	273 (1,100), 500 (600), 6,383 (47)	PG	(19) Philippine Insular Government.
Davao, P. I.....	FX	KUK	6,000 (50)	P	X Macleod & Co.
Daytona Beach, Fla.....	FX	WNX	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5).	P	X Florida Power & Light Co.
Dearhorn, Mich.....	FX	WAV	163 (1,840), 174 (1,725)	P	N Ford Motor Co.
Do.....	FX	WBO	5,525 (54.3), 8,630 (34.76)	P	X Do.
Do.....	AB	WFO	290 (1,034)	P	N Do.
Del Rio, Tex.....	FX	KGSL	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X Western Air Express.
Des Moines, Iowa.....	FA, FX	KQM	2,506 (119.7), 3,010 (99.7), 3,286 (91.2), 4,188 (71.6), 5,585 (53.7), 5,990 (50.08).	P	X Boeing Air Transport (Inc.).
Detroit, Mich.....	FX	WBM	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5).	P	X Detroit-Edison Co.
Do.....	FX	WCK	1,712 (175.23)	P	X Detroit Police Department.
Detroit, Mich., radio <sup>28</sup>	FC, FX	WDI	165 (1,820), 171 (1,755), 410 (730), 425 (705), 4,116 (72.9), 5,525 (54.3), 8,630 (34.76)	PG, PR	(26) I. R. T. Co.
Drier Bay, Alaska.....	FX	KTT	3,466 (86.55)	PR	X Gorman Packing Corp.
Duluth, Minn., radio <sup>29</sup>	FC, FX	WME	143 (2,100), 165 (1,820), 171 (1,755), 410 (730), 425 (705), 4,116 (72.886), 8,630 (34.76)	PG, PR	(30) I. R. T. Co.
Do.....	FC, FX	WRL	143 (2,100), 167 (1,795), 179 (1,676), 190 (1,578), 410 (730), 425 (705), 454 (660), 4,775 (62.827), 5,525 (54.3), 8,570 (35.01).	PG, PR	N R. C. A.
Dundas, Alaska.....	FC, FX	KEY	176 (1,704), 180 (1,667), 429 (700), 500 (600)	P	X Northwestern Fisheries Co.
East Moriches, N. Y., radio.....	FC	WSII	111 (2,703), 137 (2,190), 143 (2,098), 500 (600)	PG	N R. M. C. A.
East Pittsburgh, Pa.....	FX	WKA	165.11 (1,817), 5,102.9 (58.79)	P	X Westinghouse Electric & Mfg. Co.

COMMERCIAL LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Egegik, Alaska	FX	KMF	180 (1,667), 500 (600)	P	X	Libby, McNeill & Libby.
Ekuk, Alaska	FX	KMG	do.	P	X	Do.
Eldorado, Kans	FX	WAH	187.62 (1,599), 157 (1,910)	P	X	Skelly Oil Co.
Elgin, Ill.		WNB	8,960 (33.5)			Elgin National Watch Co.
Elko, Nev	FA, FX	KKO	2,506 (119.7), 3,010 (99.7), 3,286 (91.2), 4,188 (71.6), 5,585 (53.7), 5,990 (50.08)	P	X	Boeing Air Transport (Inc.)
El Paso, Tex	FA, FX	KGJU	3,492 (85.910), 6,230 (48.15)	P	X	Maddux Air Lines (Inc.)
Do	FA, FX	KGKA	6,350 (47.24)	P	(32)	Standard Airlines.
Do	FX	KGSM	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.)
Ensenada, P. R., radio	FC, FX	WPR	143 (2,098), 163 (1,840), 500 (600)	PG, PR	N	South Porto Rico Sugar Co.
Evans Bay, Alaska	FX	KUR	193 (1,550), 425 (705), 500 (600)	PR	X	Alaska Pacific Salmon Corp.
Everett, Wash., radio	FC, FX	KFT	143 (2,100), 163 (1,840), 182.82 (1,641), 460 (652), 500 (600)	PG, PR	N	American Tug Boat Co.
Excursion Inlet, Alaska	FC, FX	KGIS	428 (700), 454 (660), 500 (600)	P, PR	X	Pacific American Fisheries.
False Pass, Alaska	FX	KJL	182 (1,650), 462 (650), 500 (600)	P	X	P. E. Harris & Co.
Flagstaff, Ariz	FX	KGSG	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.)
Do	FX	KLU	2,040 (147.1)	P	N	Lowell Observatory.
Fordson, Mich.	FX	WMD	2,452 (122.35)	P	N	Ford Motor Co.
Fort Lauderdale, Fla.	FX	WNQ	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Florida Power & Light Co.
Fort Morgan, Ala., radio	FC, FX	WIO	176 (1,705), 442 (680), 500 (600), 4,172 (71.90), 5,525 (54.3), 6,650 (45.11), 11,050 (27.15), 13,180 (22.76), 16,580 (18.094)	PG, PR	(33)	T. R. T. Co.
Fort Pierce, Fla.	FX	WNZ	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Florida Power & Light Co.
Fort Worth, Tex.	FX	KGSN	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.)
Frackville, Pa.	FX	WBI	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	(34)	Pennsylvania Power & Light Co.
Frankfort, Mich., radio	FC, FX	WFK	174 (1,725), 410 (730), 425 (705)	PG, P	N	Ann Arbor Railroad Co.
Fresno, Calif.	FX	KGJI	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97)	P	X	Federal-State Marketing Service.
Do	FX, FA	KGT	3,010 (99.7), 3,286 (91.2), 5,990 (50.08)	P	X	Boeing Air Transport (Inc.)
Funter, Alaska	FX	KXK	180 (1,667), 480 (625), 500 (600)	P	X	Sunny Point Packing Co.
Gallup, N. Mex.	FX	KGTB	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.)
Do	FA, AB	KSP	414 (721.6)	P		Transcontinental Air Transport (Inc.)
Galveston, Tex., radio	FC, FX	WGV	418 (720), 500 (600)	PG, PR	(35)	R. M. C. A.
Greensburg, Pa.	FX	WJL	250 (1,200)	P	X	Pennsylvania State Police.
Guadalupe, Calif.	FX	KIU	2,800 (107.1)	P	X	Paramount Famous Lasky Corp.
Guani, Guam	FX	KTA	6,815 (44.02), 6,875 (43.64), 7,655 (39.09), 7,662.5 (38.65), 7,670 (39.1), 7,730 (38.81), 7,737.5 (38.78), 7,745 (38.74), 7,752.5 (38.7), 7,760 (38.66), 8,075 (37.15), 8,710 (34.44), 8,850 (33.9), 8,970 (33.44), 8,980 (33.41), 8,990 (33.37), 9,070 (33.08), 9,290 (32.29), 10,170 (29.5), 10,490 (28.6), 10,810 (27.75), 10,820 (27.73), 10,830 (27.7), 10,890 (27.55), 13,000 (23.08), 13,015 (23.05), 13,030 (23.02), 13,750 (21.82), 13,960 (21.49), 14,680 (20.44), 14,695 (20.415), 14,710 (20.39), 14,725 (20.375), 14,740	PR	N	M. R. T. Co.

RADIO DIVISION, DEPARTMENT OF COMMERCE

Harrisburg, Pa. ....	FX	WBA	(20.35), 14,755 (20.335), 14,770 (20.31), 17,140 (17.503), 17,420 (17.222), 17,660 (16.988), 17,680 (16.968), 17,700 (16.949), 18,260 (16.429), 18,780 (15.974), 19,540 (15.253), 19,560 (15.337), 19,580 (15.322), 19,600 (15.306), 19,630 (15.291), 19,740 (15.198), 20,300 (14.778), 20,980 (14.299), 21,380 (14.032).	P	X	Pennsylvania State Police.
Do. ....	FX	WKB	250 (1,200)	P	X	Headquarters Troop, One hundred and fourth Cavalry, Pennsylvania National Guard.
Harrison, Ohio. ....	FX	WDJ	11,406 (26.3), 14,020 (21.4)	P	X	Crosley Radio Corp.
Hawk Inlet, Alaska. ....	FC, FX	KPD	414 (725), 500 (600)	P	X	P. E. Harris & Co.
Hazleton, Pa. ....	FX	WCJ	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5).	P	X	Pennsylvania Power & Light Co.
Iceta Island, Alaska. ....	FC, FX	KGG	180 (1,667), 414 (725), 500 (600)	P	X	Nakat Packing Corp.
Ilealeah, Fla., radio. ....	FC, FX	WAX	53.45 (5,612), 77 (3,900), 80.5 (3,725), 143 (2,100), 145 (2,070), 482 (620), 500 (600), 6,770 (44.31), 10,450 (28.71), 12,940 (23.18).	PG, PR	N	T. R. T. Co.
Hidden Inlet, Alaska. ....	FC, FX	KQL	162 (1,850), 182 (1,650), 188 (1,667), 414 (725), 500 (600), 2,320 (129.3).	P, PR	X	Nakat Packing Corp.
Highland Park, Ill. ....	FX	WHW	6,663 (45.02)	P	N	Wireless Telegraph & Communication Co.
Highland Park, Mich. ....	FX	WMO	1,712 (175.23)	P	X	Highland Park Police.
Hillsboro, Oreg., radio. ....	FC	KEK	418 (720), 500 (600), 4,755 (63.091), 5,525 (54.3), 6,560 (45.73), 11,050 (27.15), 11,320 (26.30), 16,575 (18.099), 16,580 (18.094), 21,660 (13.85), 22,100 (13.575).	PG	N	M. R. T. Co.
Hillsboro, Oreg. ....	FX	KGH	450 (8,700), 47.50 (6,316), 71.26 (4,210), 4,396 (68.243), 4,400.5 (68.18), 4,405 (68.10), 4,410 (68.02), 4,415 (67.95), 4,420 (68.20), 5,982.5 (50.15), 5,990 (50.083), 7,662.5 (39.15), 7,752.5 (38.70), 8,080 (33.41), 10,170 (29.50), 10,890 (27.55), 13,015 (23.05), 17,140 (17.503).	PR	(1)	Do.
Hilo, Hawaii. ....	FX	KLN	442 (68.7)	PR	(6)	Mutual Telephone Co.
Hinatuan, P. I., radio (Surigao) ....	FC	KAH	306 (980), (725), 500 (600)	PG	(8)	Philippine Insular Government.
Hollbrook, Ariz. ....	FX	KGTA	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).
Honolulu, Hawaii. (See Kailua, Hawaii) ....		KNN				M. R. T. Co.
Honolulu, Hawaii. ....	FX	KGS	7,430 (40.38), 7,445 (40.29), 9,410 (31.88), 10,930 (27.45), 14,860 (20.19), 14,890 (20.15), 18,820 (15.94), 22,640 (13.251)	PR	N	Robert Dollar Co.
Do. ....	FC, FX	KOG	406 (740), 4,004 (74.9), 4,212 (71.2), 4,455 (67.34), 5,840 (51.37), 16,580 (18.094), 16,900 (17.751).	PG, PR	(7)	Mutual Telephone Co.
Do. ....	FX	KYB	3,160 (94.9)	P	X	Hawaiian Pineapple Co.
Honolulu, Hawaii, radio. ....	FC	KYG	500 (600), 5,525 (54.3), 8,630 (34.76), 11,050 (27.15), 11,200 (26.79), 16,580 (18.094), 16,900 (17.751), 22,100 (13.575), 22,160 (13.538).	PG	N	Robert Dollar Co.
Hoquiam, Wash., radio. ....	FC	KJQ	460 (650), 500 (600)	PG	(9)	Twin Harbor Stevedoring & Tug Co.
Houston, Tex. ....	FX	KGSO	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).
Hunters Bay, Alaska. ....	FX	KQI	176 (1,704), 180 (1,667), 420 (700), 500 (600)	P	X	Northwestern Fisheries Co.
Hydaburg, Alaska. ....	FX	KGIP	179 (1,676), 191 (1,571)	PR	X	Far North Fisheries (Inc.).
Hyder, Alaska. ....	FX	KDF	180 (1,667), 187 (1,600), 445 (675), 500 (600)	PR	X	Hyder Radio & Telephone Co.
Ikatani, Alaska, radio. ....	FC, FX	KXW	186 (1,610), 283 (1,060), 425 (705), 500 (600)	PG, PR	X	Pacific American Fisheries.
Iloilo, P. I., radio (Iloilo) ....	FC	KPM	125 (2,400), 154 (1,950), 187 (1,600), 250 (1,200), 300 (1,000) to 500 (600), 6,818 (44).	PG	(11)	Philippine Insular Government.

COMMERCIAL LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Iloilo, P. I.	FX	KTJ	5,976 (50.2)	P	N	Radio Corporation of the Philippines.
Independence, Calif.	FX	KQS	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	City of Los Angeles, Calif., Department of Water and Power.
Indianapolis, Ind.	FA, AB	WHM	400 (750)	P		Transcontinental Air Transport (Inc.).
Indio, Calif.	FX	KQJB	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97)	P	X	Federal-State Marketing Service.
Infanta, P. I., radio (Tayabas)	FC	KAI	143 (2,100), 154 (1,950), 167 (1,800), 187 (1,600), 214 (1,400), 250 (1,200), 300 (1,000), 375 (800), 500 (600)	PG	(10)	Philippine Insular Government.
Iowa City, Iowa	FA, FX	KQQ	2,505 (119.7), 3,010 (99.7), 3,286 (91.2), 4,188 (71.6), 5,585 (53.7), 5,990 (50.08)	P	X	Boeing Air Transport (Inc.).
Isabela de Basilan, P. I., radio (Zamboanga)	FX	KPN	1,500 (200)	PR	(38)	Philippine Insular Government.
Jersey City, N. J.	FX	WHU	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Public Service Electric & Gas Co.
Jolo, P. I., radio (Jolo)	FC	KIL	157.48 (1,900), 250 (1,200), 500 (600)	PG	(7)	Philippine Insular Government.
Kahuku, Hawaii	FX	KEQ	6,732.5 (44.560)	PR	N	R. C. A. Communications (Inc.).
Kahuku, Hawaii (Oahu). (See Koko Head, Hawaii.)	FX	KTE	18 (16,670)	PR	N	Do.
Kahuku, Hawaii (Oahu Station)	FX	KGI	18.6 (16,129)	PR	N	Do.
Kahuku, Hawaii	FX	KIO	11,680 (25.685)	PR	N	Do.
Do.	FX	KKH	7,520 (39.89)	PR	N	Do.
Do.	FX	KKP	13,705 (21.890)	PR	N	Do.
Do.	FX	KQH	19,020 (15.773)	PR	N	Do.
Do.	FX	KRO	5,845 (51.33)	PR	N	Do.
Kailua, Hawaii (Honolulu)	FX	KNN	6,815 (44.02), 6,875 (43.64), 7,655 (39.09), 7,662.5 (38.65), 7,670 (39.11), 7,730 (38.81), 7,737.5 (38.78), 7,745 (38.74), 7,752.5 (38.7), 7,760 (38.66), 8,075 (37.15), 8,710 (34.44), 8,850 (33.9), 8,970 (33.44), 8,980 (33.41), 8,990 (33.37), 9,070 (33.08), 9,260 (32.29), 10,170 (29.5), 10,490 (28.6), 10,810 (27.75), 10,820 (27.73), 10,830 (27.7), 10,890 (27.55), 13,000 (23.08), 13,015 (23.05), 13,030 (23.02), 13,750 (21.82), 13,960 (21.49), 14,680 (20.44), 14,695 (20.415), 14,710 (20.39), 14,725 (20.375), 14,740 (20.35), 14,755 (20.335), 14,770 (20.31), 17,140 (17.508), 17,420 (17.222), 17,600 (16.988), 17,680 (16.968), 17,700 (16.949), 18,260 (16.429), 18,780 (15.974), 19,540 (15.253), 19,560 (15.337), 19,580 (15.322), 19,600 (15.306), 19,620 (15.291), 19,740 (15.198), 20,300 (14.778), 20,980 (14.299), 21,380 (14.032)	PR	N	M. R. T. Co.
Kake, Alaska	FC, FX	KGP	180 (1,667), 480 (625), 500 (600)	P	X	Sunny Point Packing Co.
Kansas City, Mo.	FX	KGTG	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).
Karluk, Alaska (Kodiak Island)	FX	KYK	180 (1,667), 429 (700), 500 (600)	P	X	Alaska Packers Assn.
Kasaan, Alaska	FC, FX	KMC	176 (1,704), 180 (1,667), 429 (700), 500 (600)	P	X	Northwestern Fisheries Co.
Katalla, Alaska Radio	FC, FX	KSC	182 (1,650), 414 (725), 500 (600)	PG, PR	X	Chukot Oil Co.
Kaumapalapa, Hawaii	FX	KRQ	3,332 (90)	P	X	Hawaiian Pineapple Co.



Kaunakakai, Hawaii (Molokai Island)	FX	KHO	442 (650), 4,212 (71.2), 4,455 (67.34), 5,720 (52.45)	PR	(30)	Mutual Telephone Co.
Kawaihae, Hawaii	FX	KIHN	445 (675), 500 (600)	PR	(30)	Do.
Kenai, Alaska	FX	KLD	180 (1,667), 414 (725), 500 (600)	P	X	Northwestern Fisheries Co.
Do.	FX	KYZ	180 (1,667), 500 (600)	P	X	Libby, McNeill & Libby.
Killsnoo, Alaska	FX	KQU	480 (625), 500 (600)	P	X	Killsnoo Fisheries (Inc.).
King Cove, Alaska, radio	FC, FX	KJK	186 (1,810), 283 (1,060), 425 (705), 500 (600)	PG, PR	X	Pacific American Fisheries.
Kingman, Ariz.	FA, FX	KGTL	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.80)	P	X	Western Air Express (Inc.).
Do.	FA, AB	KSX	457 (556.5)	P	X	Transcontinental Air Transport (Inc.).
Kings Mill, Tex.	FX	KYI	6,243.4 (48.05)	P	X	Texas Pipe Line Co.
Koggiung (permanently moored scow in Koggiung River).	FX	KUB	180 (1,667), 429 (700), 500 (600)	P	X	Alaska Packers Assn.
Koggiung, Alaska.	FC, FX	KVV	180 (1,667), 187 (1,600), 500 (600)	P	(30)	Libby, McNeill & Libby.
Koko Kea, Hawaii. (See Kahuku).	FX	KIE		P	X	Henrich Packing Co.
Kukak Bay, Alaska	FX	KJP	429 (700)	P	X	F. W. Williamson.
Kusilof, Alaska	FX	KZY	500 (600)	P	X	Alaska Packers Assn.
Kvichak, Alaska.	FX	KHB	180 (1,667), 429 (700), 500 (600)	P	X	Do.
Kvichak (permanently moored scow in Koggiung River, Alaska).	FX	KVQ	do	P	X	
Kvichak, Alaska.	FC, FX	KYM	500 (600), 3,490 (86)	P	X	Bristol Bay Packing Co.
Lake Bay, Alaska	FC, FX	KZC	180 (1,667), 425 (705), 462 (650), 500 (600)	P	X	Columbia River Packers Assn. (Inc.).
Lake City, Fla.	FX	WNM	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Florida Power & Light Co.
Lakeland, Fla.	FX	WNF	do	P	X	Do.
L'Anse, Mich.	FC, FX	WCT	174 (1,725)	P	X	Ford Motor Co.
Lansing, Ill.	FA, AB	WCQ	333 (900), 414 (725)	P	X	Do.
Las Vegas, Nev.	FX	KG TJ	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	N	Western Air Express (Inc.).
Latouche, Alaska, radio.	FC, FX	KIM	182 (1,650), 425 (705), 500 (600)	PG, PR	(40)	Kennecott Copper Corp.
Lawrenceville, N. J.	FX	WMI	9,870 (30.40), 14,590 (20.56), 19,820 (15.136)	PR	N	American Telephone & Telegraph Co.
Lazy Bay, Alaska	FX	KPS	283 (1,060), 425 (705), 500 (600)	PR, P	X	Alitak Fish Co.
Lebak, P. I., radio.	FC	KPX	150 (2,000), 200 (1,500), 500 (600)	PG	(9)	Philippine Insular Government.
Legaspi, P. I., radio.	FC	KAL	300 (1,090), 500 (600), 6,742 (44.5)	PG	(10)	Do.
Libbyville, Alaska, radio.	FC, FX	KMT	125 (2,400), 143 (2,100), 158 (1,900), 167 (1,800), 179 (1,680), 180 (1,667), 500 (600)	PG, PR	N	Libby, McNeill & Libby.
Lihue, Hawaii, (Island of Kauai)	FC, FX	KHM	460 (650), 500 (600), 4,212 (71.2), 5,720 (52.45)	PR	X	Mutual Telephone Co.
Limay, P. I.	FX	KUG		P	X	Cadwallader Gibson Lumber Co.
Lincoln, Nebr.	FA, FX	KRF	2,506 (119.7), 3,010 (99.7), 3,286 (91.2), 4,188 (71.6), 5,585 (53.7), 5,990 (50.08)	P	X	Boeing Air Transport (Inc.).
Linden, N. J.	FX	WMU	7,775 (38.58), 19,780 (15.167)	PR	N	Southern Radio Corp.
L. McN. & L., VI, No. 1 (permanently moored vessel in Kvichak River, Alaska).	FC, FX	KTQ	180 (1,667), 425 (705), 500 (600)	P	X	Libby, McNeill & Libby.
Lockanok, Alaska	FX	KML	180 (1,667), 182 (1,650), 500 (600)	P	X	Do.
Lodi, Calif.	FX	KGJC	3,250 (89.6), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97)	P	X	Federal-State Marketing Service.
Lordsburg, N. Mex.	FX	KGSP	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).
Loring, Alaska	FC, FX	KRI	180 (1,667), 429 (700), 500 (600)	P	X	Alaska Packers Assn.
Los Angeles, Calif.	FX, FA	KEU	3,010 (98.7), 3,286 (91.2), 5,990 (50.08)	P	X	Boeing Air Transport (Inc.).
Los Angeles, Calif. (Rogers Field)	FA, FX	KGJV	3,492 (85.910), 6,230 (48.15)	P	X	Maddux Air Lines (Inc.).
Los Angeles, Calif.	FX	KGTI	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).
Do.	FX	KGX	7,430 (40.38), 7,445 (40.29), 9,410 (31.88), 10,930 (27.45), 14,860 (20.19), 14,890 (20.15), 18,820 (15.94), 22,640 (13.251)	PR	N	Robert Dollar Co.

COMMERCIAL LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Los Angeles, Calif. (See Clearwater, Calif.)		XOK				M. R. T. Co.
Los Angeles, Calif.	FX	KQT	6,554.5 (45.77)	P	X	City of Los Angeles, Department of Water and Power.
Do	FX	KRM	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8, 810 (34.05), 10,010 (29.97)	P	X	State Department of Agriculture (Calif.).
Los Angeles, Calif. (See Torrance, Calif.)		KSE				R. M. C. A.
Los Angeles, Calif., Radio	FC	KSM	500 (600), 5,525 (54.3), 8,630 (34.76), 11,050 (27.15), 11,200 (26.79), 16,580 (18.094), 16,900 (17.751), 22,100 (13.575), 22,160 (13.538)	PG	N	Robert Dollar Co.
Los Angeles, Calif.	FX	KYY	180 (1,666), 2,050 (146.3)	P	X	Los Angeles County, Forestry Department.
Ludington, Mich., radio <sup>41</sup>	FC, FX	WLD	174 (1,725), 410 (730), 425 (705), 454 (660)	PG, PR	N	Pere Marquette Railway Co.
Lumarso, P. I.	FC	KBM	545 (550)	P		Hercules Lumber Co.
Mackinac Island, Mich., radio <sup>42</sup>	FC, FX	WHQ	163 (1,840), 410 (730), 425 (705)	PG, PR	X	Mackinac Radio Service (E. M. Tellefson).
Main base	FC, FX	KFK	375 (800), 400 (750), 500 (600), 3,290 (91.2), 4,405 (68.1), 5,600 (53.57), 5,650 (63.1), 6,580 (45.59), 8,810 (34.05), 11,200 (26.78), 11,300 (26.55), 13,187 (22.75), 16,717 (17.945), 16,800 (17.857), 21,805 (13.758)	P	X	Byrd Antarctic Expedition.
Do	FC, FX	WFA	do	P	X	Do.
Malabang, P. I., radio (Mindanao Island)	FC	KIZ	353 (850), 375 (800), 400 (750), 500 (600)	PG	(9)	Philippine Insular Government.
Malita, P. I., radio (Davao)	FC	KPW	400 (750), 500 (600), 667 (450)	PG	(13)	Do.
Mambajao, P. I., radio	FC	KUM	273 (1,100), 571 (525)	PG	(9)	Do.
Manila, P. I., radio	FC	KAA	187 (1,600), 474 (632.5), 500 (600), 5,645 (56.11), 11,290 (26.55), 16,935 (17.704)	PG	N	Radio Corporation of the Philippines.
Manila, P. I.	FX	KAX	19,930 (15.053)	PR	N	Do.
Do	FX	KAY		PR	N	Do.
Do	FX	KAZ	9,970 (30.09)	PR	N	Do.
Do	FX	KBI	21,130 (14.198)	PR	N	Do.
Do	FX	KBJ		PR	N	Do.
Do	FX	KBK	6,690 (44.84)	PR	N	Do.
Do	FX	KBO	5,145 (58.31), 15,010 (19.987)	P		Philippine Insular Government.
Do	FX	KTN	5,941 (50.5)	PR	N	Radio Corporation of the Philippines.
Do	FX	KTO	10,910 (27.5)	PR	N	Do.
Do	FX	KTP	7,980 (37.59)	PR	N	Do.
Do	FX	KTR	10,910 (27.5)	PR	N	Do.
Manila, P. I., radio	FC, FX	KTY	462 (649), 5,585 (53.685), 11,170 (26.84), 16,755 (17.89), 17,600 (17.045)	PG, PR	N	M. R. T. Co.
Manila, P. I.	FX	KUA	5,000 (60), 5,505 (54.5), 7,317.07 (41)	P	X	Panabutan Lumber & Plantation Co.
Do	FX	KUE		P		Cadwallader Gibson Lumber Co.
Do	FX	KUH	6,818 (44)	P	X	Macleod & Co.

Do.....	FX	KUS		PR	N	Radio Corporation of the Philippines.
Do.....	FX	KUV		PR	N	Do.
Do.....	FX	KUW		PR	N	Do.
Manila, P. I., radio	FC	KUZ	432 (694), 5,555 (53.97), 11,110 (26.98), 16,665 (17.99)	PG, P	(5)	Robert Dollar Co.
Manistique, Mich., radio "	FC, FX	WMX	174 (1,725), 410 (730), 425 (705)	PG, P	(5)	Ann Arbor R. R. Co.
Manitowoc, Wis., radio "	FC, FX	WMW	do	P	X	Do.
Marfa, Tex.	FX	KGSQ	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express.
Marion, Ill.	FA	WEU	4,184 (71.7)	PG	N	Egyptian Transportation System.
Marion, Mass., radio	FC	WCC	117 (2,564), 129 (2,326), 141 (2,128), 143 (2,100)	PG	N	R. M. C. A.
Do.....	FC	WIM	406 (740), 500 (600), 5,525 (54.3), 6,455 (46.47), 6,470 (46.37), 8,350 (35.93), 11,050 (27.15), 12,640 (23.73), 12,580 (23.85), 16,700 (17.964), 21,860 (13.724), 21,900 (13.699), 22,100 (13.575)	PR	N	Do.
Marion, Mass. (Matapoisett)	FX	WRQ	22.35 (13.423)	PR	N	R. C. A. Communications (Inc.).
Marion, Mass. (See Chatham)	FX	WSO	25.8 (11,628)	PR	N	Do.
Marshall, Calif. (See Bolinas)		KET				Do.
Mary Island Lighthouse, Alaska	FC	KJJ	480 (625), 500 (600)	P	X	G. E. Maddox.
Marysville, Calif.	FX	KGJH	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97)	P	X	Federal-State Marketing Service.
Marysville, Mich.	FX	WPV	3,160 (94.9), 3,166 (94.75), 3,172 (94.57), 3,178 (94.4), 3,184 (94.22), 3,238 (96.65), 3,244 (92.47)	P	X	Detroit Edison Co.
Mati, P. I., radio (Davao)	FC	KPZ	315 (952), 500 (600)	PG	(4)	Philippine Insular Government.
Mazama (permanently moored vessel at Herendeen village, Alaska)	FX	KHE	429 (700), 500 (600)	P	X	Everett Packing Co.
McCamey, Tex.	FX	KSZ	6,243.5 (48.05)	P	X	Texas Pipe Line Co.
Medford, Oreg.	FX, FA	KGE	3,010 (99.7), 3,286 (91.2), 5,990 (50.08)	P	X	Boeing Air Transport (Inc.).
Memphis, Tenn.	FX	WPI	274 (1,095), 6,515 (46.05)	P	N	Inland Waterways Corp.
Menominee, Mich., radio	FC, FX	WDM	174 (1,725), 410 (730), 425 (705)	PG, P	(5)	Ann Arbor Railroad Co.
Miami, Fla.	FA, FX	WKDL	333 (900), 414 (725), 500 (600), 2,302 (130.321), 3,076 (97.529), 4,124 (72.744), 6,395 (46.911)	P	X	Pan American Airways.
Do.....	FX	WNH	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Florida Power & Light Co.
Do.....	FC	WSV	2,400 (124.9)	P	X	Electrical Equipment Co.
Miami Beach, Fla.	FC	WFU	2,542 (118)	P	(4)	Carl G. Fisher Co.
Midway Island, Hawaii.	FX	KTF	4,518 (66.4), 6,944 (43.2), 9,040 (33.2), 13,890 (21.6)	PR	N	M. R. T. Co.
Do.....	FC	KYN	500 (600), 540 (555)	P	X	Commercial Pacific Cable Co.
Mills Field, Calif. (San Bruno)	FA, FX	KGJT	3,492 (85.910), 6,230 (48.15)	P	X	Maddux Air Lines (Inc.).
Minneapolis, Minn.	FC	KQP	274 (1,095), 3,420 (97.7), 6,515 (46.05)	P	X	Inland Waterways Corp.
Do.....	FX	WLP	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Northern States Power Co.
Mobile, Ala., radio	FC, FX	WNN	143 (2,100), 147 (2,040), 442 (680), 500 (600), 4,172 (71.908), 5,525 (54.3), 8,550 (35.09), 11,050 (27.15), 12,370 (24.25), 16,575 (18.10), 16,580 (18.094), 22,100 (13.575), 22,400 (13.393)	PG, PR	(3)	T. R. T. Co.
Mobile, Ala.	FC, FX	WPP	143 (2,098), 165 (1,818), 274 (1,095), 438 (6,849), 500 (600), 3,420 (87.7), 6,515 (46.05)	P	(3)	Inland Waterways Corp.
Modesto, Calif.	FX	KGJG	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97)	P	X	Federal-State Marketing Service.
Mount Baker (moored vessel near Ugashik, Alaska)	FC	KYD	462 (650), 500 (600)	P	X	Red Salmon Canning Co.
Muskogee, Okla.	FX	KGSW	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).

COMMERCIAL LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Mussell Rock, Calif., radio.....	FC	KTK	500 (600), 5,525 (54.3), 8,630 (34.76), 11,050 (27.15), 11,200 (26.79), 16,580 (18.094), 16,900 (17.751).	PG	N	Robert Dollar Co.
Naga-Naga, P. I.....	FX	KUQ		P	X	Mindanao Lumber Co.
Nakeen, Alaska (Bristol Bay).....	FC	KJI	2,320 (129.3)	P	X	Nakat Packing Corp.
Naknek, Alaska.....	FX	KMK	171 (1,750), 462 (650), 500 (600)	P	X	Naknek Packing Co.
Do.....	FC, FX	KHT	186 (1,610), 429 (700), 500 (600)	P	X	Alaska Packers Assn.
Do.....	FC, FX	KOM	180 (1,667), 414 (725), 500 (600)	P	X	Northwestern Fisheries Co.
Naknek, Alaska (Hyades-moored vessel).	FX	KPB	500 (600)	P	X	Red Salmon Canning Co.
Naknek, Alaska.....	FX	KTZ	7,597 (39.45)	P	X	Alaska Packers Assn.
Needles, Calif.....	FX	KGTE	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).
Nelson Lagoon, Alaska.....	FX	KXV	445 (675), 500 (600)	P	X	Pacific American Fisheries.
Newark, N. J.....	FX	WAQ	6,813 (44.03)	P	X	Westinghouse Electric & Mfg. Co.
Do.....	FX	WHV	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Public Service Electric & Gas Co.
New Brunswick, N. J.....	FX	WAZ	14,920 (20.107)	PR	N	R. C. A. Communications (Inc.).
Do.....	FX	WHI	21.8 (13,750)	PR	N	Do.
Do.....	FX	WIZ	6,965 (43.073)	PR	N	Do.
New Brunswick, N. J. (Bound Brook).	FX	WRT	22.6 (13.265)	PR	N	Do.
New London, Conn., radio.....	FC	WSA	476 (630), 500 (600)	PG	N	R. M. C. A.
New Orleans, La., radio.....	FC, FX	WNU	73 (4,110), 90 (3,333), 143 (2,100), 149 (2,013), 176 (1,750), 448 (670), 500 (600), 4,148 (72.32), 5,525 (54.3), 6,650 (45.11), 6,785 (44.22), 8,550 (35.09), 10,470 (28.65), 11,050 (27.15), 12,340 (24.31), 12,970 (23.13), 16,580 (18.094), 17,100 (17.544), 22,100 (13.575), 22,340 (13.429).	PG, PR	N	T. R. T. Co.
New York, N. Y., radio.....	FC	WCG	135 (2,222), 143 (2,100), 442 (680), 500 (600)	PG	N	R. M. C. A.
New York, N. Y.....	FX	WGA	7,430 (40.38), 7,445 (40.29), 9,410 (31.88), 10,930 (27.45), 14,860 (20.19), 14,890 (20.16), 18,820 (15.94), 22,640 (13.251).	PR	N	Robert Dollar Co.
New York, N. Y., radio.....	FC	WHD	5,645 (53.144), 6,545 (45.84), 8,250 (36.36), 11,260 (26.64), 16,500 (18.182).	PG	X	New York Times Co.
New York, N. Y.....	FX	WJD	8,100 (37.01)	P	X	International News Service.
New York, N. Y. radio (Borough of Brooklyn).	FC	WNY	135 (2,222), 143 (2,100), 442 (680), 500 (600)	PG	N	R. M. C. A.
New York, N. Y., radio.....	FC	WPN	8,427 (35.61), 11,350 (26.43), 16,850 (17.8)	PG	N	Robert Dollar Co.
New York, N. Y.....	FC	WPY	438 (685), 500 (600)	P	N	City of New York Police Department.
New York, N. Y., radio.....	FC	WSF	131 (2,290), 143 (2,100), 418 (720), 500 (600)	PG	N	M. R. T. Co.
North Bend, Oreg., radio.....	FC	KGN	460 (650), 500 (600)	PG	N	Coos Bay Wireless Telegraph Co.
North Platte, Nebr., radio.....	FA, FX	KMR	2,506 (119.7), 3,010 (99.7), 3,286 (91.2), 4,188 (71.6), 5,585 (53.7), 5,990 (50.08).	P	X	Boeing Air Transport (Inc.).
Nushagak, Alaska.....	FX	KLJ	187 (1,600), 425 (705), 480 (825), 500 (600)	P	X	Columbia River Packers Assn.
Do.....	FC, FX	KNJ	180 (1,667), 414 (725), 500 (600)	P	X	Northwestern Fisheries Co.
Do.....	FX	KNO	180 (1,667), 500 (600)	P	X	Libby, McNeill & Libby.
Do.....	FC, FX	KZV	500 (600), 3,490 (86)	P	X	Alaska Salmon Co.



Oakland, Calif.	FA, FX	KFO	3,452 (86.906), 5,570 (53.86)	P	X	Boeing Air Transport (Inc.).
Do	FX, FA	KGSB	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express.
Ocean Township, N. J.	FX	WNC	9,750 (30.77), 14,470 (20.73), 19,220 (15.61)	PR	N	American Telephone & Telegraph Co.
Do	FX	WLO	10,550 (28.44), 16,270 (18.44), 21,420 (14.01)	PR	N	Do.
Do	FX	WND	6,755 (41.41), 9,170 (32.71), 13,390 (22.4), 18,340 (16.36), 21,060 (14.24)	PR	N	Do.
Oklahoma City, Okla.	FX	KGSC	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express.
Omaha, Nebr	FX, FA	KMP	2,506 (119.7), 3,010 (99.7), 3,286 (91.2), 4,188 (71.6), 5,585 (53.7), 5,990 (50.08)	P	X	Boeing Air Transport (Inc.).
Palatka, Fla	FX	WNP	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Florida Power & Light Co.
Palm Beach, Fla., radio	FC	WOE	119 (2,520), 143 (2,100), 394 (760), 500 (600)	PG	N	R. M. C. A.
Palo Alto, Calif. (near), radio	FC	KFS	109 (2,752), 123 (24.39), 143 (2,100), 418 (720), 500 (600), 5,525 (54.3), 6,690 (34.52), 11,050 (27.13), 13,060 (22.97), 16,580 (18.094), 16,980 (17.668), 21,580 (13.902), 22,100 (13.575)	PG	N	M. R. T. Co.
Palo Alto, Calif. (near)	FX	KNK	14,680 (20.44), 14,710 (20.39), 18,780 (15.974), 19,540 (15.253)	PR	N	Do.
Do	FX	KNW	6,815 (44.02), 6,875 (43.64), 7,655 (39.09), 7,662.5 (38.65), 7,670 (39.11), 7,730 (38.81), 7,737.5 (38.78), 7,745 (38.74), 7,752.5 (38.7), 7,760 (38.66), 8,075 (37.15), 8,710 (34.44), 8,850 (33.9), 8,970 (33.44), 8,980 (33.41), 8,990 (33.37), 9,070 (33.08), 9,290 (32.29), 10,170 (29.5), 10,490 (28.6), 10,810 (27.75), 10,820 (27.73), 10,830 (27.7), 10,890 (27.55), 13,000 (23.08), 13,015 (23.05), 13,030 (23.02), 13,750 (21.82), 13,960 (21.49), 14,680 (20.44), 14,695 (20.415), 14,710 (20.39), 14,725 (20.375), 14,740 (20.35), 14,755 (20.335), 14,770 (20.31), 17,140 (17.503), 17,420 (17.222), 17,660 (16.988), 17,680 (16.968), 17,700 (16.949), 18,260 (16.429), 18,780 (15.974), 19,540 (15.253), 19,560 (15.337), 19,580 (15.322), 19,600 (15.306), 19,620 (15.291), 19,740 (15.198), 20,300 (14.778), 20,980 (14.299), 21,380 (14.032)	PR	N	Do.
Palo Alto, Calif.	FX	KWT	39.39 (7,616), 51.68 (5,804), 63.18 (4,748), 68.92 (4,291), 83.86 (3,574), 97.50 (3,077), 4,396 (68.243), 4,400.5 (68.18), 4,405 (68.10), 4,410 (68.02), 4,414 (67.95), 5,975 (50.20), 5,982.5 (50.15), 5,990 (50.083), 7,662.5 (39.15), 7,737.5 (38.75), 7,752.5 (38.70), 8,850 (33.90), 8,980 (33.41), 10,170 (29.50), 10,820 (27.73), 10,890 (27.55), 13,015 (23.05), 17,140 (17.503), 17,680 (16.968)	PR	(4)	Do.
Panabutan, P. I.	FX	KUC	5,000 (60), 5,505 (54.5), 15,000 (20)	P	X	Panabutan Lumber & Plantation Co.
Pandan, P. I., radio (Catanduanes Islands)	FC	KBP	273 (1,100) to 545 (550), 353 (850)	PG	(4)	Philippine Insular Government.
Panhandle City, Tex.	FX	KEH	6,603.5 (45.43)	P	X	Marland Pipe Line Co.
Passy, P. I.	FX	KAM	300 (1,000), 400 (750), 500 (600), 5,615 (53.395), 6,452 (46.5), 11,230 (26.69)	PR	(4)	Philippine Insular Government.
Philadelphia, Pa.	FX	WDH	275 (1,090), 445 (674)	P	X	First Troop, Philadelphia City Cavalry, Headquarters Troop, Fifty-second Cavalry Brigade.
Do	FX	WJV	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Philadelphia Electric Co.
Philadelphia, Pa., radio	FC	WNW	410 (730), 500 (600)	PG	(4)	Tidewater Wireless Telegraph Co.
Phoenix, Ariz.	FA, FX	KGJR	3,492 (85.910), 6,230 (48.15)	P	X	Maddux Air Lines (Inc.).
Do	FA, FX	KGKC	6,350 (47.24)	P	(4)	Standard Airlines.
Do	FX	KGSI	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express.

## COMMERCIAL LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Pillar Bay, Alaska	FX	KYV	500 (600)	P	X	Fidalgo Island Packing Co.
Pilot Point, Alaska	FX	KUL	180 (1,667), 429 (700), 500 (600)	PR	X	Alaska Packers Assn.
Pirate Cove, Alaska	FX	KOX	182 (1,650), 414 (725), 500 (600)	PR	( <sup>53</sup> 54)	Union Fish Co.
Plainfield, Ill.	FX	WKDE	5,900 (50.85)	PR	N	Universal Wireless Communication Co.
Point Reyes, Calif., (Bolinas)	FX	KDU	24 (12,500)	PR	N	R. C. A. Communications, (Inc.).
Point Ward, Alaska	FX	KLH	180 (1,667), 429 (700), 480 (625), 2,852 (105.2)	P	X	Whitworth Fisheries.
Ponca City, Okla.	FX	KFE	8,603.5 (45.43)	P	X	Marland Pipe Line Co.
Do	FX	KSF	1,600 (187.5), 1,652 (181.6), 1,664 (180.29), 1,680 (178.6), 1,704 (176.06)	P	X	Marland Production Co.
Port Alexander, Alaska	FC, FX	KPR	180 (1,667), 246 (1,220), 410 (730), 500 (600)	PR	X	Karl Hansen.
Port Althorp, Alaska	FC, FX	KLW	180 (1,667), 445 (675), 500 (600)	P	X	Alaska Pacific Salmon Corp.
Port Armstrong, Alaska	FC, FX	KIII	180 (1,667), 462 (650), 500 (600)	P	X	Buchan & Heinen Pkg. Co.
Port Arthur, Tex., radio	FC	WPA	131 (2,290), 143 (2,100), 418 (720), 500 (600), 5,525 (54.3), 6,455 (46.47), 8,370 (35.84), 11,650 (25.75), 12,670 (23.68), 16,580 (18.094), 21,820 (13.749), 22,100 (13.575)	PG	N	R. M. C. A.
Port Graham, Alaska	FC, FX	KFQ	203 (1,440), 410 (730), 500 (600)	P	X	T. H. Killam.
Port Herbert, Alaska	FX	KOV	2,002 (149.85)	P	X	United States Alaska Packing Co.
Port Hobron, Alaska, radio	FC	KGI	445 (675), 500 (600)	PG	X	The Warehouse Co.
Portland, Oreg. (See Hillsboro)	FC	KFK				M. R. T. Co.
Portland, Oreg., radio	FC	KKB	500 (600), 5,525 (54.2986), 8,630 (34.76), 11,050 (27.15), 11,200 (26.79), 16,580 (18.094)	PG	N	Robert Dollar Co.
Portland, Oreg.	FX	KLB	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	N	Northwestern Electric Co.
Portland, Oreg., radio	FC	KPK	460 (650), 500 (600)	PG	N	Merchants Exchange.
Portland, Oreg.	FA	KVO	2,506 (119.7), 3,010 (99.7), 3,286 (91.29), 4,188 (71.6), 5,585 (53.7), 5,990 (50.08)	P	X	Boeing Air Transport (Inc.).
Port Moller, Alaska, radio	FC, FX	KWR	186 (1,610), 283 (1,060), 425 (705), 500 (600), 5,880 (51.02)	PR, PG	X	Pacific American Fisheries.
Prince of Wales Island, Alaska	FX	KGIT	179 (1,676), 191 (1,571)	P	X	Starr-Collinson Packing Co.
Pueblo, Colo.	FX	KGSR	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).
Puerto Princesa, P. I., radio, (Palawan)	FC	KIV	500 (600)	PG	(1)	Philippine Insular Government.
Punta Gorda, Fla.	FX	WNS	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Florida Power & Light Co.
Pybus Bay, Alaska	FX	KFC	180 (1,667), 190.11 (1,578), 500 (600)	P	( <sup>23a</sup> )	Alaska Consolidated Canneries.
Quadra, Alaska	FC, FX	KID	do	P	( <sup>23a</sup> )	Do.
Do	FX	KOR	178 (1,701), 180 (1,667), 429 (700), 500 (600)	P	X	Northwestern Fisheries Co.
Quincy, Mass. <sup>85</sup>	FC	WPC	438 (685), 500 (600), 1,592 (188.44), 6,515 (46.05)	P	X	Bethlehem Shipbuilding Corp.
Radioville, Alaska, radio	FC, FX	KWW	429 (700), 500 (600)	P	X	Joseph T. Bauer.
Raspberry Island, Alaska	FX	KMQ	414 (725), 500 (600)	PG, PR	X	Caw Packing Co.
Red Bluff Bay, Alaska, radio	FC, FX	KXS	125 (2,400), 167 (1,800), 171 (1,750), 180 (1,667), 425 (705), 445 (675), 500 (600)	PG, P	X	Baranof Packing Co.
Redding, Calif.	FA, FX	KTU	2,506 (119.7), 3,010 (99.7), 3,286 (91.2), 4,188 (71.6), 5,585 (53.7)	P	X	Boeing Air Transport (Inc.).
Reno, Nev.	FA, FX	KJE	5,990 (50.08)	P	X	Do.
Do			do			

Rockport, Wash., (near).....	FX	WJE	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5).	P	X	City of Seattle Light Dept.
Rock Springs, Wyo.....	FA, FX	KQC	2,506 (119.7), 3,010 (99.7), 3,286 (91.2), 4,188 (71.6), 5,585 (53.7), 5,990 (50.08).	P	X	Boeing Air Transport (Inc).
Rocky Point, N. Y.....	FX	WAJ	13,480 (22.255)	PR	X	R. C. A. Communications (Inc.).
Do.....	FX	WBU	21,260 (14.111)	PR	X	Do.
Do.....	FX	WDS	18,900 (15.873)	PR	X	Do.
Do.....	FX	WEA	10,610 (28.275)	PR	X	Do.
Do.....	FX	WEB	6,935 (43.259)	PR	X	Do.
Do.....	FX	WEC	8,930 (33.594)	PR	X	Do.
Do.....	FX	WED	10,630 (28.222)	PR	X	Do.
Do.....	FX	WEE	6,920 (43.353)	PR	X	Do.
Do.....	FX	WEF	9,490 (31.612)	PR	X	Do.
Do.....	FX	WEG	7,415 (40.459)	PR	X	Do.
Do.....	FX	WEJ	6,740 (44.51)	PR	X	Do.
Do.....	FX	WEL	8,950 (33.52)	PR	X	Do.
Do.....	FX	WEM	7,400 (40.541)	PR	X	Do.
Do.....	FX	WEN	7,407.5 (40.500)	PR	X	Do.
Do.....	FX	WEO	6,957.5 (43.119)	PR	X	Do.
Do.....	FX	WER	6,710 (44.709)	PR	X	Do.
Do.....	FX	WES	9,450 (31.746)	PR	X	Do.
Do.....	FX	WET	9,470 (31.679)	PR	X	Do.
Do.....	FX	WEV	6,942.5 (43.212)	PR	X	Do.
Do.....	FX	WEX	13,450 (22.305)	PR	X	Do.
Do.....	FX	WEZ	6,927.5 (43.306)	PR	X	Do.
Do.....	FX	WFX	18,980 (15.806)	PR	X	Do.
Do.....	FX	WHR	13,420 (22.355)	PR	X	Do.
Do.....	FX	WIK	13,930 (21.536)	PR	X	Do.
Do.....	FX	WIR	4,064 (74)	PR	X	Do.
Do.....	FX	WIY	13,870 (21.629)	PR	X	Do.
Do.....	FX	WKC	13,465 (22.280)	PR	X	Do.
Do.....	FX	WKD	13,435 (22.330)	PR	X	Do.
Do.....	FX	WKJ	9,460 (31.712)	PR	X	Do.
Do.....	FX	WKL	8,940 (33.557)	PR	X	Do.
Do.....	FX	WKM	18,860 (15.907)	PR	X	Do.
Do.....	FX	WKO	15,970 (18.785)	PR	X	Do.
Do.....	FX	WKP	6,950 (43.165)	PR	X	Do.
Do.....	FX	WKQ	16,000 (18.75)	PR	X	Do.
Do.....	FX	WKU	14,830 (20.229)	PR	X	Do.
Do.....	FX	WKW	16,030 (18.715)	PR	X	Do.
Do.....	FX	WLL	17,900 (16.760)	PR	X	Do.
Do.....	FX	WNL	58.5 (5,125) to 61.53 (4,875)	PR	X	American Telephone & Telegraph Co.
Do.....	FX	WPE	13,480 (21.676)	PR	X	R. C. A. Communications (Inc.).
Do.....	FX	WQA	21,220 (14.138)	PR	X	Do.
Do.....	FX	WQB	17,940 (16.722)	PR	X	Do.
Do.....	FX	WQC	17,860 (16.797)	PR	X	Do.
Do.....	FX	WQD	18,960 (15.823)	PR	X	Do.
Do.....	FX	WQE	18,920 (18.856)	PR	X	Do.
Do.....	FX	WQF	17,920 (16.741)	PR	X	Do.
Do.....	FX	WQG	15,040 (19.947)	PR	X	Do.
Do.....	FX	WQH	18,880 (1.890)	PR	X	Do.
Do.....	FX	WQI	17,880 (16.779)	PR	X	Do.
Do.....	FX	WQJ	21,240 (14.124)	PR	X	Do.

COMMERCIAL LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	
Rocky Point, N. Y.	FX	WQK	18,220 (16.465)	PR	N	R. C. A. Communications (Inc.).	
Do.	FX	WQL	14,815 (20.250)	PR	N		
Do.	FX	WQM	170 (1.765)	PR	N		
Do.	FX	WQN	5,263 (57), 5,505 (54.5), 5,825 (51.5)	PR	N		
Do.	FX	WQO	6,725 (41.61)	PR	N		
Do.	FX	WQP	13,960 (21.583)	PR	N		
Do.	FX	WQQ	20,240 (14.808)	PR	N		
Do.	FX	WQR	16,015 (18.732)	PR	N		
Do.	FX	WQS	13,915 (21.550)	PR	N		
Do.	FX	WQT	13,885 (21.606)	PR	N		
Do.	FX	WQU	13,855 (21.653)	PR	N		
Do.	FX	WQV	14,800 (20.27)	PR	N		
Do.	FX	WQW	21,300 (14.085)	PR	N		
Do.	FX	WQX	20,180 (14.866)	PR	N		
Do.	FX	WQY	20,100 (14.925)	PR	N		
Do.	FX	WSS	18,80 (15.957)	PR	N		
Do.	FX	WTT	18,940 (15.830)	PR	N		
Rogers, Mich., radio <sup>87</sup>	FC, FX	WLC	165 (1,820), 171 (1,755), 410 (730), 425 (705), 4,116 (72.9), 8,630 (31.76)	PG, PR, P	N		Michigan Limestone & Chemical Co.
Rose Inlet, Alaska	FX	KJC	180 (1,667), 190.11 (1,578), 500 (600)	P	(21e)		Alaska Pacific Salmon Corp.
Ruby. (permanently moored vessel in Koguing River, Alaska).	FX	KDR	180 (1,667), 429 (700), 500 (600)	P	X		Alaska Packers Assn.
Sacramento, Calif.	FA, FX	KFM	3,452 (86.906), 5,570 (53.86)	P	X	Boeing Air Transport (Inc.).	
Do.	FX	KRJ	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97)	P	X	State Department of Agriculture (Calif.).	
Saginaw Bay, Alaska	FC, FX	KFJ	180 (1,667), 425 (705), 500 (600)	P	(48)	Port Walter Herring & Packing Co.	
St. Augustine, Fla.	FX	WNV	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Florida Power & Light Co.	
St. Croix Falls, Wis.	FX	WPL	do	P	X	Northern States Power Co.	
St. Louis, Mo.	FX	KGST	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).	
Saltehuok, Alaska	FX	KWQ	343 (875), 500 (600)	P	X	Alaska Palladium Co.	
Salt Lake City, Utah	FX	KGTH	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).	
Do.	FA, FX	KQD	2,506 (119.7), 3,010 (99.7), 3,286 (91.2), 4,188 (71.6), 5,585 (53.7), 5,990 (50.08)	P	X	Boeing Air Transport (Inc.).	
San Antonio, Tex.	FX	KGSS	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).	
San Diego, Calif.	FX	KGJA	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97)	P	X	Federal-State Marketing Service.	
Do.	FA, FX	KGJS	3,492 (85.910), 6,230 (48.15)	P	X	Maddux Air Lines (Inc.).	
Do.	FX	KG SX	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).	
Sanford, Fla.	FX	WNT	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Florida Power & Light Co.	
San Francisco, Calif. (See Palo Alto, near.)		KFS				M. R. T. Co.	
San Francisco, Calif.	FC	KGJJ	2,446 (122.6)	P	N	San Francisco Bar Pilots Assn.	
Do.	FX	KGQ	7,430 (40.38), 7,445 (40.29), 9,410 (31.88), 10,930 (27.45), 14,860 (20.19), 14,890 (20.15), 18,820 (15.94), 22,640 (13.251)	PR	N		Robert Dollar Co.



San Francisco, Calif. (Mills Field) ----	FA	KGTK	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8).....	P	(59)	Western Air Express (Inc.).
San Francisco, Calif. ....	FX	KMN	5,805 (51.69).....	PR	X	State of California, department of natural resources, division of fish and game.
San Francisco, Calif. (See Bolinas) .....		KPH		P	X	R. M. C. A.
San Francisco, Calif. ....	FX	KRG	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97).			State department of agriculture (Calif.).
San Francisco, Calif., radio. (See Mussell Rock.) .....		KUP	5,585 (53.71), 6,530 (45.94), 8,230 (36.45), 11,170 (26.86), 16,460 (18.226).	P	N	Robert Dollar Co.
San Francisco, Calif. ....	FC	KUO	435 (690), 500 (600).....	P	N	Examiner Printing Co.
Do. ....	FC, FX	KPY	500 (600).....	PG	(12)	Do.
San Francisco, P. I., radio (Camotes, Cebu). ....	FC	KIY	214 (1,400), 500 (600).....	P	N	Philippine Insular Government.
San Jose, P. I., radio (Mindoro Island). .....	FX	KRII	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97).	PG	(9)	Do.
San Jose, Calif. ....	FX	WGT	13,780 (21.771).....	P	X	State department of agriculture (Calif.).
Do. ....	FX	WGU	6,717.5 (44.659).....	PR	N	R. C. A. Communications (Inc.).
Do. ....	FX	WGX	6,890 (43.541).....	PR	N	Do.
Do. ....	FX	WGZ	9,480 (31.646).....	PR	N	Do.
Do. ....	FX	WJT	4,595 (65.28).....	PR	N	Do.
Do. ....	FX	WQZ	15,985 (18.768).....	PR	N	Do.
Santa Barbara, Calif. ....	FX	KHR	2,865 (104.7).....	P	X	Merritt-Chapman & Scott Corp.
Santa Cruz Island, Calif. ....	FX	KGJ	do	P	X	Do.
Santa Maria, Calif. ....	FX	KGJE	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97).	P	X	Federal-State Marketing Service.
Do. ....	FA, FX	KGKD	333 (900), 1,616 (185.64), 2,344 (127.986), 4,785 (62.695).....	P	(60)	Do.
Santa Rosa, Calif. ....	FX	KGJD	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97).	P	X	Federal-State Marketing Service.
Sayville, N. Y. ....	FX	WKI	4,396 (68.243), 4,400.5 (68.18), 4,405 (68.10), 4,410 (68.02), 4,415 (67.95), 5,975 (50.20), 5,982.5 (50.15), 5,990 (50.083), 7,602.5 (39.15), 7,737.5 (38.75), 7,752.5 (38.70), 8,980 (33.41), 10,170 (29.50), 10,820 (27.73), 10,890 (27.55), 13,015 (23.05), 17,140 (17.503), 17,680 (16.968).	PR	N	M. R. T. Co.
Do. ....	FX	WML	6,815 (44.02), 6,875 (43.64), 7,655 (39.09), 7,662.5 (38.65), 7,670 (39.11), 7,730 (38.81), 7,737.5 (38.78), 7,745 (38.74), 7,752.5 (38.70), 7,760 (38.66), 8,075 (37.15), 8,710 (34.44), 8,850 (33.90), 8,970 (33.44), 8,980 (33.41), 8,990 (33.37), 9,070 (33.08), 9,290 (32.29), 10,170 (29.50), 10,490 (28.60), 10,810 (27.75), 10,820 (27.73), 10,830 (27.70), 10,890 (27.55), 13,000 (23.06), 13,015 (23.05), 13,030 (23.02), 13,750 (21.82), 13,960 (21.49), 14,680 (20.44), 14,695 (20.415), 14,710 (20.39), 14,725 (20.375), 14,740 (20.35), 14,755 (20.335), 14,770 (20.31), 17,140 (17.503), 17,420 (17.222), 17,660 (16.988), (20.31), 17,140 (16.968), 17,700 (16.949), 18,260 (16.420), 18,780 (15.974), 19,540 (15.253), 19,560 (15.337), 19,580 (15.322), 19,600 (15.306), 19,820 (15.291), 19,740 (15.198), 20,300 (14.778), 20,980 (14.299), 21,380 (14.032).	PR	N	Do.
Do. ....	FC	WSL	107 (2,804), 143 (2,098), 392 (765), 500 (600), 5,525 (54.298), 5,675 (52.863), 8,670 (34.60), 11,050 (27.15), 11,350 (26.43), 16,580 (18.094), 16,900 (17.751), 22,100 (13.575), 22,700 (13.216).	PG	N	Do.

COMMERCIAL LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Scobeyville, N. J.	FC	WKDA	5,885 (50.975)	PR	N	Universal Wireless Communications Co.
Scow No. 5 (moored vessel near Nushagak, Alaska).	FC	KHY		P	X	Alaska Salmon Co.
Seattle, Wash.	FX	KGR	7,430 (40.38), 7,445 (40.29), 9,410 (31.88), 10,930 (27.45), 14,860 (20.19), 14,890 (20.15), 18,820 (15.94) 22,640 (13.251).	PR	N	Robert Dollar Co.
Do	FX	KPA	5,900 (50.85)	PR	X	Lincoln L. Jackson.
Seattle, Wash., radio	FC, FX	KPE	143 (2,100), 163 (1,840), 167 (1,796), 460 (650), 500 (600)	PG, PR	N	City of Seattle, harbor department.
Do	FC	KSA	500 (600), 5,525 (54.2986), 8,630 (34.76), 11,050 (27.15), 11,200 (26.79), 16,580 (18.094), 16,900 (17.751).	PG	N	Robert Dollar Co.
Seattle, Wash.	FX	KVW	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5).	P	X	City of Seattle, light department.
Do	FC	KYF	1,596 (187.97)	P	N	City of Seattle, fire department.
Do	FA, FX	KZJ	2,506 (119.7), 3,010 (99.7), 3,286 (91.2), 4,188 (71.6), 5,585 (53.7), 5,990 (50.08).	P	X	Boeing Air Transport (Inc.).
Sebastopol, Calif.	FX	KRD	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97).	P	X	State Department of Agriculture (Calif.).
Seldovia, Alaska, radio	FC, FX	KEA	480 (625), 500 (600)	PG, P	(61)	Adam Lipke.
Shakan, Alaska	FC	KVN	176 (1,704), 180 (1,667), 429 (700), 500 (600)	P	X	Northwestern Fisheries Co.
Sheboygan, Wis., radio	FC, FX	WSK	171 (1,755), 410 (730), 425 (705)	PG, PR	(63)	C. Reiss Coal Co.
Siasi, P. I., radio (Sulu)	FC	KED	462 (650), 500 (600), 667 (450)	PG	(2)	Philippine Insular Government.
Siginaka Island, Alaska	FX	KXD	462 (650), 500 (600)	P	X	W. M. Cook.
Sipaco, P. I.	FX	KUF		P		Cadwallader Gibson Lumber Co.
Skellytown, Tex.	FX	KIH	187.62 (1,599)	P	X	Skelly Oil Co.
Snag Point, Alaska	FC, FX	KHF	180 (1,667), 429 (700), 500 (600)	P	X	Alaska Packers Association.
Snug Harbor, Alaska	FX	KVC	182 (1,650), 500 (600)	P	X	Snug Harbor Packing Co.
Sogod, P. I., radio (Leyte)	FC	KBS	414 (725), 500 (600)	PG	(43)	Philippine Insular Government.
Springdale, Pa.	FX	WOY	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5).	P	N	West Penn Power Co.
Springfield, Mass.	FX	WRZ	6,000 (50)	P	X	Westinghouse Electric & Mfg. Co.
Steamboat Bay, Alaska (Noyes Island).	FC, FX	KUU	500 (600), 3,304 (90.8)	P	X	New England Fish Co.
Subbase	FC, FX	WFD	375 (800), 400 (750), 500 (600), 3,290 (91.2), 4,405 (68.1), 5,600 (53.57), 5,650 (53.1), 6,580 (45.59), 8,810 (34.05), 11,200 (26.78), 11,300 (26.55), 13,187 (22.75), 16,717 (17.945), 16,800 (17.857), 21,805 (13.758).	P	X	Byrd Antarctic Expedition.
Do	FC, FX	WFE	do	P	X	Do.
Superior, Mich.	FX	WRH	3,160 (94.9), 3,166 (94.75), 3,172 (94.57), 3,178 (94.4), 3,184 (94.22), 3,238 (96.65), 3,244 (92.47).	P	X	Detroit Edison Co.
Surigao, P. I., radio (Surigao)	FC	KAS	226 (1,325), 364 (825), 500 (600)	PG	(1)	Philippine Insular Government.
Sweetwater, Tex.	FX	KOSU	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).
Taku Harbor, Alaska	FC, FX	KVG	180 (1,667), 425 (705), 500 (600)	P	X	Libby, McNeill & Libby.
Tampa, Fla., radio	FC	WPD	438 (685), 500 (600), 5,525 (54.3), 8,630 (34.76)	PG	(64)	Gulf Radio Service.
Tandag, P. I., radio (Surigao)	FC	KAG	324 (925), 387 (775), 500 (600)	PG	(2)	Philippine Insular Government.

Tenakee, Alaska	FX	KFD	179 (1,676), 428 (700)	P	X	Superior Packing Co.
Do	FC, FX	KOI*	180 (1,667), 189 (1,587), 500 (600)	P	X	Alaska Consolidated Canneries.
Todd, Alaska	FX	KFP	417 (720), 3,333 (90)	PR	X	Peril Straits Packing Co.
Tolong, P. I.	FX	KTS	7,009 (42.8)	P	(S)	Philippine Insular Government.
Torrance, Calif., radio (Los Angeles)	FC	KSE	133 (2,256), 143 (2,100), 408 (735), 500 (600), 5,525 (54.3), 6,485 (46.26), 8,430 (35.59), 11,050 (27.15), 12,430 (24.14), 12,490 (24.02), 16,580 (18.094), 22,040 (13.612), 22,100 (13.575), 22,520 (13.321)	PG	N	R. M. C. A.
Tuckerton, N. J.	FX	WCI	18.4 (16,304)	PR	N	R. C. A. Communications (Inc.).
Do	FX	WGG	22.1 (13,575)	PR	N	Do.
Tuckerton, N. J., radio	FC	WSC	133 (2,256), 143 (2,100), 462 (650), 500 (600), 5,525 (54.3), 6,485 (46.26), 6,500 (46.15), 8,370 (35.84), 11,050 (27.15), 12,670 (23.68), 12,730 (23.57), 12,820 (23.40), 13,210 (22.71), 16,575 (18.100), 16,740 (17.921), 16,780 (17.873), 21,700 (13.825), 21,740 (13.799), 21,780 (13.774), 21,820 (13.749), 22,100 (13.575)	PG	N	R. M. C. A.
Tucson, Ariz.	FX	KGSF	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).
Tulsa, Okla.	FX	WEH	187 (1,599)	P	X	Skelly Oil Co.
Tyee, Alaska	FX	KSR	180 (1,667), 429 (700), 480 (625)	P	X	Sebastian Stuart Fish Co.
Uganik, Alaska	FC, FX	KLP	462 (650), 500 (600)	P, PR	X	Kodiak Island Fishing & Packing Co.
Uganik, Alaska (Port O'Brien. Kodiak Island)	FC	KVF	429 (700), 500 (600)	P	X	San Juan Fishing & Packing Co.
Ugashik, Alaska	FX	KMU	480 (625), 500 (600)	P	X	Red Salmon Canning Co.
Underwood, Wash. (near)	FX	KFL	3,100 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	N	Northwestern Electric Co.
Union Bay, Alaska, radio	FC, FX	KON	171 (1,750), 180 (1,667), 186 (1,610), 480 (625), 500 (600), 2,320 (129.3)	PG, PR	X	Nakat Packing Corporation.
Uyak, Alaska	FC, FX	KHA	180 (1,667), 186 (1,610), 429 (700), 500 (600)	P, PR	X	Alaska Packers Association.
Do	FX	KHIV	180 (1,667), 414 (725), 500 (600)	P	X	Northwestern Fisheries Co.
Uzinki, Alaska	FC, FX	KZU	410 (730), 500 (600), 3,148 (95.3)	P	X	Katmai Packing Co.
Vancouver, Wash.	FX	KEG	2,506 (119.71), 3,010 (99.7), 3,286 (91.29), 4,188 (71.63), 5,585 (53.72), 5,990 (50.08)	P	X	Boeing Air Transport (Inc.).
Vieques, P. R., radio	FC, FX	WGW	52 (5,768), 438 (685), 500 (600), 1,592 (188.44), 1,610 (186.3), 5,525 (54.298), 6,515 (46.04)	PG, PR	(6)	Bureau of Insular Telegraph.
View Cove, Alaska	FX	KSJ	180 (1,665), 190 (1,575), 425 (705), 500 (600)	P	(6)	Pacific Coast Cement Co.
Virac, P. I., radio (Albay)	FC	KAV	316 (950), 400 (750), 500 (600)	PG	(3)	Philippine Insular Government.
Wahiawa, Hawaii, radio (island of Oahu)	FC	KHK	163 (1,840), 143 (2,100), 410 (730), 500 (600), 5,525 (54.2986), 6,515 (46.04)	PG	N	Mutual Telephone Co.
Wailuku, Hawaii	FX	KHL	442 (680), 4,212 (71.2), 5,720 (52.45)	PR	(3)	Do.
Warm Springs Bay, Alaska	FX	KNH	180 (1,667), 445 (675), 500 (600)	P	X	United States-Alaska Packing Co.
Warren, Alaska	FX	KIHU	186 (1,610), 283 (1,060)	PR	X	Alaska-Portland Packers Assn.
Washington, D. C.	FX	WJH	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Potomac Electric Power Co.
Do	FX	WJX		P	X	Do.
Waterfall, Alaska, radio	FC, FX	KZN	180 (1,667), 182 (1,650), 2,801 (107.1), 414 (725), 500 (600), 6,100 (49.15), 2,320 (129.3)	PG, PR	X	Nakat Packing Corp.
Waynoka, Okla.	AB, FA	KSY	393 (763)	P		Transcontinental Air Transport (Inc.).
West Dover, Ohio, radio (Cleveland)	FC, FX	WCY	143 (2,100), 161 (1,865), 410 (730), 425 (705), 454 (660), 4,775 (62.82), 8,570 (35.01), 5,525 (54.2986)	PG, PR	N	R. C. A.
West Palm Beach, Fla., radio	FC	WMR	121 (2,480), 143 (2,100), 392 (765), 500 (600), 5,525 (54.3), 6,575 (45.63), 8,690 (34.52), 11,650 (27.15), 11,320 (26.50), 16,580 (18.094), 21,620 (13.876), 22,100 (13.575)	PG	N	M. R. T. Co.

RADIO STATIONS OF THE UNITED STATES

COMMERCIAL LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
West Palm Beach, Fla.....	FX	WNG	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Florida Power & Light Co.
West Reading, Pa.....	FX	WMB	250 (1,200)	P	X	Pennsylvania State Police.
Wichita, Kans.....	FX	KGTD	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).
Wichita Falls, Tex.....	FX	KGSV	do.	P	X	Do.
Do.....	FX	KYU	6,664 (45.02)	P	X	Texas Pipe Line Co.
Williams, Ariz.....	FX	KGSA	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).
Williamsport, Md.....	FX	WHF	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)	P	X	Potomac Edison Co.
Williamsport, Pa.....	FX	WPH	do.	P	(3)	Pennsylvania Power & Light Co.
Wilmington, Calif.....	FC	KNI	261 (114.9)	P	X	Wilmington Transpn. Co.
Winslow, Ariz.....	FX	KGTF	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).
Do.....	AB, FA	KSV	400 (750)	P	X	Transcontinental Air Transport (Inc.).
Wyandotte, Mich.....	FC, FX	WCV	168 (1,790), 420 (715)	P	X	Wyandotte Transpn. Co.
Wyoming, Pa.....	FX	WDX	250 (1,200)	P	X	Pennsylvania State Police.
Yakutat, Alaska.....	FC, FX	KKA	180 (1,667), 500 (600)	P	X	Libby, McNeill & Libby.
Yes Bay, Alaska.....	FC, FX	KRU	180 (1,667), 190.11 (1,578), 500 (600)	P	(22 a)	Alaska Consolidated Canneries.
Yuma, Ariz.....	FX	KGSH	2,482 (120.87), 3,460 (86.7), 5,690 (52.72), 6,410 (46.8)	P	X	Western Air Express (Inc.).
Yachar Bay, Alaska.....	FC, FX	KFX	283 (1,000), 425 (705), 500 (600)	P, PR	X	Alitak Fish Co.
Zamboanga, P. I., radio (Mindanao Island.)	FC	KIW	240 (1,250), 300 (1,000), 500 (600), 6,000 (50)	PG	(11)	Philippine Insular Government.
PORTABLE						
California.....	FX	KLC	2,742 (109.4)	PR	X	Shell Co. of California.
Do.....	FX	KNG	5,805 (51.69)	PR	X	State of California, department of natural resources, division of fish and game.
Do.....	FX	KRB	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97)	P	X	State department of California.
Do.....	FX	KRN	do.	P	X	Do.
Fifth radio zone.....	FX	KIIP	1,600 (187.5), 1,652 (181.6), 1,664 (180.29), 1,680 (178.6), 1,704 (176.06)	P	(67)	Geophysical Research Corp.
Do.....	FX	KIIS	do.	P	(67)	Do.
Do.....	FX	KHW	do.	P	(67)	Do.
Do.....	FX	KHZ	do.	P	(67)	Do.
Flagstaff, Ariz.....	FX	KLV	2,040 (147.1)	P	X	Lowell Observatory.
Los Angeles, Calif.....	FX	KFV	180 (1,666), 2,050 (146.3)	P	X	Los Angeles County, Forestry Department.
Louisiana and Texas, No. 1.....	FX	KGKE	1,600 (187.5), 1,652 (181.60), 1,664 (180.29), 1,680 (178.6), 1,704 (176.06)	P	(68)	McCullum Exploration Co.
Louisiana, Mississippi, and Texas:						
No. 1.....	FX	WBB	do.	P	X	Texas Co.
No. 2.....	FX	WBD	do.	P	X	Do.
No. 3.....	FX	WBE	do.	P	X	Do.
No. 4.....	FX	WBG	do.	P	X	Do.





COMMERCIAL LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Texas, Louisiana, and New Mexico.	FX	KRW	1,600 (187.5), 1,652 (181.60), 1,664 (180.29), 1,680 (178.6), 1,704 (176.06),	P	X	Interstate Geophysical Exploration Co.
Do.	FX	KRZ	do	P	X	Do.
Do.	FX	WCS	do	P	X	Do.
Texas and Louisiana	FX	WCM	do	P	X	Sun Oil Co.
Do.	FX	WCN	do	P	X	Do.
Do.	FX	WCO	do	P	X	Do.
Do.	FX	WCP	do	P	X	Do.
Do.	FX	WCR	do	P	X	Do.
Third radio zone:						
No. 1.	FX	WFG	do	P	(67)	Geophysical Research Corporation.
No. 2.	FX	WFH	do	P	(67)	Do.
No. 3.	FX	KOT	do	P	(67)	Do.
No. 4.	FX	KOI	do	P	(67)	Do.
No. 5.	FX	KOF	do	P	(67)	Do.
No. 6.	FX	WFJ	do	P	(67)	Do.
No. 7.	FX	WFM	do	P	(67)	Do.
No. 8.	FX	WFN	do	P	(67)	Do.
No. 9.	FX	WFP	do	P	(67)	Do.
No. 10.	FX	KOD	do	P	(67)	Do.
No. 11.	FX	KNZ	do	P	(67)	Do.
No. 12.	FX	KNY	do	P	(67)	Do.
No. 13.	FX	WFQ	do	P	(67)	Do.
No. 14.	FX	WFR	do	P	X	Do.
No. 15.	FX	WFS	do	P	(67)	Do.
No. 16.	FX	KNU	do	P	(67)	Do.
No. 17.	FX	KNT	do	P	(67)	Do.
No. 18.	FX	KNS	do	P	(67)	Do.
No. 19.	FX	KNQ	do	P	(67)	Do.
No. 20.	FX	KNM	do	P	(67)	Do.
No. 21.	FX	KNL	do	P	(67)	Do.
No. 42.	FX	KGJQ	do	P	X	Do.
No. 43.	FX	KGJP	do	P	X	Do.
No. 44.	FX	KGJO	do	P	X	Do.
No. 45.	FX	KGJN	do	P	X	Do.
No. 46.	FX	KGJM	do	P	X	Do.
No. 47.	FX	KGJL	do	P	X	Do.
Third radio zone	FX	KDH	do	P	X	Do.
Do.	FX	KDV	do	P	X	Do.
Do.	FX	KDX	do	P	X	Do.
Do.	FX	KIB	do	P	X	Do.
Do.	FX	KIC	do	P	X	Do.
Do.	FX	KIJ	do	P	X	Do.
Do.	FX	KKD	do	P	X	Do.
Do.	FX	KKF	do	P	X	Do.
Do.	FX	KKU	do	P	X	Do.

Do.	FX	KKV	do.	P	X	Do.
Do.	FX	KKX	do.	P	X	Do.
Do.	FX	KKY	do.	P	X	Do.
Do.	FX	KSB	do.	P	X	Do.
Do.	FX	WCU	do.	P	X	Marland Production Co.
Do.	FX	WFY	do.	P	(67)	Geophysical Research Corp.
Do.	FX	WFZ	do.	P	(67)	Do.
Do.	FX	WGB	do.	P	(67)	Do.

<sup>1</sup> 8 to 12 a. m.; 2 to 5.30 p. m. daily; Sundays and holidays 9 to 11 a. m.; 2 to 3.30 p. m.; ship service from the beginning to the 10th minute of each hour.

<sup>2</sup> 8 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship service, 20th to 30th minutes of each hour.

<sup>3</sup> 8 a. m. to 5 p. m. daily except Sunday.

<sup>4</sup> Location (approximately), 83° 30' 00" W., 45° 05' 00" N.

<sup>5</sup> 8 a. m. to 6 p. m.

<sup>6</sup> 8 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. and 2 to 3.30 p. m. Sundays and holidays; ship service, 20th to the 30th minutes of each hour.

<sup>7</sup> 8 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship service, 40th to the 50th minutes of each hour.

<sup>8</sup> 8 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship service, 30th to the 40th minutes of each hour.

<sup>9</sup> 8 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. and 2 to 3.30 p. m. Sundays and holidays; ship service, 30th to the 40th minutes of each hour.

<sup>10</sup> 8 to 12 a. m. and 2 to 5.30 p. m. daily; 9 to 11 a. m. and 2 to 3.30 p. m. Sundays and holidays; ship service, last 10 minutes of each hour.

<sup>11</sup> 7 a. m. to 8 p. m. daily, 7 a. m. to 7 p. m. Sundays and holidays; ship service, first 10 minutes of each hour.

<sup>12</sup> 8 to 12 a. m.; 2 to 5.30 p. m. daily, 9 to 11 a. m. Sundays and holidays; ship service, 10th to the 20th minutes of each hour.

<sup>13</sup> Location (approximately), 78° 55' 00" W.; 42° 53' 00" N.

<sup>14</sup> 6 a. m. to 12 p. m.

<sup>15</sup> 8 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship service, last 10 minutes of each hour.

<sup>16</sup> 9 to 10 a. m.; 7 to 8 p. m.

<sup>17</sup> 8 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship service, first 10 minutes of each hour.

<sup>18</sup> 8 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m.; 2 to 3.30 p. m. Sundays and holidays; ship service, first 10 minutes of each hour.

<sup>19</sup> 7 a. m. to 8 p. m. daily; 7 a. m. to 7 p. m. Sundays and holidays; ship service, 40th to the 50th minutes of each hour.

<sup>20</sup> 8 a. m. to 12 p. m. daily; 9 to 11 a. m. and 6.30 to 12 p. m. Sundays and holidays.

<sup>21</sup> Location (approximately), 87° 37' 00" W.; 41° 52' 00" N.

<sup>22</sup> 9 a. m. to 5 p. m.

<sup>23</sup> Location (approximately), 87° 37' 20" W.; 41° 52' 26" N.

<sup>24</sup> 7 a. m. to 12 p. m.

<sup>25</sup> 7 a. m. to 11 p. m. daily.

<sup>26</sup> Location (approximately), 81° 41' 30" W.; 41° 30' 00" N.

<sup>27</sup> 8 a. m. to 8 p. m.

<sup>28</sup> 7.30 to 12 a. m.; 2 to 4.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship service, 10th to the 20th minutes of each hour.

<sup>29</sup> Location (approximately), 83° 03' 00" W.; 42° 20' 00" N.

<sup>29</sup> Location (approximately), 92° 06' 00" W.; 46° 46' 00" N.

<sup>30</sup> 7 a. m. to 7 p. m.

<sup>31</sup> Location (approximately), 92° 05' 30" W.; 46° 46' 44" N.

<sup>32</sup> 5 a. m. to 8 p. m. daily.

<sup>33</sup> 7 a. m. to 10 p. m. daily.

<sup>34</sup> 8 a. m. to 5 p. m. daily, except Sunday.

<sup>35</sup> 8 to 12 a. m. and 1 to 5 p. m. daily.

<sup>36</sup> 7.30 a. m. to 5.30 p. m.

<sup>37</sup> 7.30 a. m. to 11.30 p. m.

<sup>38</sup> 8 to 12 a. m. and 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays.

<sup>39</sup> 6.30 to 9.30 p. m. daily.

<sup>40</sup> 1 to 5 p. m.

<sup>41</sup> Location, 86° 26' 19" W.; 43° 56' 47" N.

<sup>42</sup> Location (approximately), 84° 35' 00" W.; 45° 54' 00" N.

<sup>43</sup> 8 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship service, 50th to the 60th minutes of each hour.

<sup>44</sup> Location, 86° 15' 35" W.; 45° 57' 48" N.

<sup>45</sup> 8.30 to 11.30 a. m.; 2 to 5 p. m.; X on Sundays and holidays.

<sup>46</sup> Location (approximately), 87° 45' 00" W.; 44° 07' 00" N.

<sup>47</sup> 8 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship service, from the beginning to the 10th minute of each hour.

<sup>48</sup> 8 to 11.30 a. m. and 2 to 5 p. m.

<sup>49</sup> 10 to 12 a. m.; 1 to 5 p. m.

<sup>50</sup> 8 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship service, 10th to the 20th minutes of each hour.

<sup>51</sup> 7 a. m. to 8 p. m. daily; 7 a. m. to 7 p. m. Sundays and holidays.

<sup>52</sup> 6 a. m. to 12 p. m. daily.

<sup>53, 54</sup> 9 to 11 a. m.; 6 to 12 p. m.

<sup>55</sup> Communicates only with vessels on trial trips.

<sup>56</sup> The telephone band used by this station extends from 4,875 to 5,125 meters.

<sup>57</sup> Location (approximately), 83° 50' 00" W.; 45° 25' 00" N.

<sup>58</sup> 6.30 a. m. to 12 p. m.

<sup>59</sup> 8 a. m. to 4 p. m.

<sup>60</sup> 8 to 9 a. m., 6.30 to 7.30 p. m. daily.

<sup>61</sup> 9 to 11 a. m., 2 to 3 and 6 to 8 p. m.

<sup>62</sup> Location (approximately), 87° 41' 30" W.; 43° 45' 00" N.

<sup>63</sup> 7 to 12 a. m., 1 to 6 p. m., week days; 8 to 11 a. m. and 4 to 6 p. m. Sundays and holidays.

<sup>64</sup> 6 a. m. to 6 p. m.

<sup>65</sup> 8 to 12 a. m., 1 to 6 and 7 to 8 p. m.

<sup>66</sup> 8 a. m. to 12 p. m.

<sup>67</sup> 9 a. m. to 7 p. m. daily except Sunday.

<sup>68</sup> 8 a. m. to 6 p. m. daily except Sunday.

# COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
A. A. Augustus.....Δ	KDXQ	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.	Owner.
A. & P. Nakeen No. 7.....	KGFQ	43.12 (69.56)	P	X	Nakat Packing Corp.	Do.
Abacena.....	WIDC	425 (705), 500 (600), 3,436 (87.3), 5,525 (54.3), 58,230 (36.45), 12,340 (24.31)	P	X	Stacy P. Bailey	T. R. T. Co.
Abangarez.....Δ	KDAI	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 469 (640), 500 (600)	PG	N	United Fruit S. S. Corp.	
Abercos.....	KOVR	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Abron.....	KERD	do	PG	X	Finkbine-Guild Transp. Co.	Do.
Absaroka.....	KGDG	do	PG	X	McCormick S. S. Co.	Do.
A. C. Bedford.....Δ	WOCJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	Do.
Achilles.....	WHCS	500 (600)	PG	N	Panama R. R. Co.	Owner.
Acme.....Δ	WSCF	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transp. Co.	R. M. C. A.
Adam E. Cornelius.....Δ	KDVF	375 (800), 410 (730), 425 (705)	PG	X	American Steamship Co.	Owner.
Adler.....	KDTT	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	W. G. Coyle & Co.	R. M. C. A.
A. D. Macbeth.....	KDXN	375 (800), 410 (730), 425 (705)	PG	X	Buckeye S. S. Co.	
Admiral Benson.....	WQOA	375 (800), 425 (705), 500 (600)	PG	X	Portland California S. S. Co.	
Admiral Dewey.....Δ	WGCA	125 (2,400), 137 (2,190), 143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	N	Pacific S. S. Co.	M. R. T. Co.
Admiral Evans.....	WGCB	125 (2,400), 143 (2,100), 121 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	N	do	Do.
Admiral Farragut.....Δ	WGCC	125 (2,400), 143 (2,100), 151 (1,987), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	N & X	do	Do.
Admiral Fiske.....Δ	WGCD	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	N, X	do	Do.
Admiral Moser.....	WGCE	375 (800), 425 (705), 500 (600)	PG	X	do	
Admiral Peary.....	WGCF	125 (2,400), 143 (2,100), 121 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Admiral Peoples.....	WJEI	375 (800), 425 (705), 500 (600)	PG	N	Portland-California S. S. Co.	Owner.
Admiral Rodman.....	WGCG	do	PG	N, X	Pacific S. S. Co.	M. R. T. Co.
Admiral Rogers.....	WGCH	do	PG	N	do	Do.
Admiral Schley.....Δ	WGCI	125 (2,400), 143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	N	do	Do.
Admiral Sebree.....	WGCI	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Admiral Watson.....	WGCK	125 (2,400), 143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	N	do	Do.
A. E. R. Schneider.....Δ	WFUI	375 (800), 410 (730), 425 (705)	PG	X	Morrow S. S. Co.	R. C. A.
Δfel.....	KISQ	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Δfoundria.....	KOMQ	do	PG	X	do	Do.
Agwidale.....	WHCA	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Mallory S. S. Co.	Do.
Agwilake.....	KDNN	375 (800), 425 (705), 500 (600)	PG	X	Atlantic, Gulf & West Indies S. S. Lines.	Do.
Agwimars.....	KDMC	do	PG	X	do	Do.
Agwipond.....	KFKP	do	PG	X	do	Do.

Agwistar.....	WECR	.....do	PG	X	New York & Cuba Mail S. S. Co.....	Do.
Agwistone.....	KDPO	375 (800), 410 (730), 425 (705), 454 (660)	PG	X	Atlantic, Gulf & West Indies S. S. Lines.	Do.
Agwiworld.....	KDMD	375 (800), 425 (705), 500 (600)	PG	X	do.....	Do.
Akutan.....	WKDH	.....do	P	X	Alaska Salvage and Towing Co.....	Owner.
Ala.....	KDOH	375 (800), 410 (730), 425 (705), 454 (660)	PG	X	U. S. S. B.....	R. M. C. A.
Alabama.....	WHDN	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	P	X	Tennessee Coal, Iron & R. R. Co.....	Owner.
Do.....	WPCT	375 (800), 410 (730), 394 (760)	PG	N, X	Goodrich Transit Co.....	R. C. A.
Do.....	WRAE	375 (800), 425 (705), 500 (600)	PG	X	Texas Co.....	R. M. C. A.
Aladdin.....	KDQM	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transpn. Co.....	Do.
Alameda.....	WCCQ	375 (800), 425 (705), 500 (600)	PG	N	Alaska S. S. Co.....	M. R. T. Co.
Alaska.....	KFIM	.....do	PG	N	do.....	Do.
Alaskan.....	WACW	.....do	PG	X	American-Hawaiian S. S. Co.....	Owner.
Alaska Standard.....	KFTJ	375 (800), 425 (705), 454 (660), 468 (640)	PG	X	Standard Oil Co. of California.	R. M. C. A.
Albacore.....	WQBM	5,525 (54.3), 5,555 (54)	P	X	State of California, Division of Fish and Game.	Owner.
Alaska Packers Association (general call for all vessels).	KFVV				Alaska Packers Assn.....	
Albatross.....	KELD		PG	X	Deep Sea Fisheries.....	R. M. C. A.
Do.....	WSBL	375 (800), 425 (705), 500 (600)			James A. Ross.	
Albay.....	KZAK	500 (600)	PG	X	Compania Maritima.....	Owner.
Albert E. Watts.....	KDOK	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sinclair Nav. Co.....	R. M. C. A.
Albert Hill.....	WFCV	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Atlantic Refining Co.....	Do.
Alden A. Mills.....	KGBQ	375 (800), 425 (705), 500 (600)	PG	X	Ocean Trawling Co.....	Do.
Alder.....	KDTI	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	William Boyce Thompson.....	Do.
Alex B. Uhrig.....	KFSA	375 (800), 410 (730), 425 (705)	PG	X	Reiss S. S. Co.....	Owner.
Algic.....	KDDC	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	R. M. C. A.
Algonquin.....	KDKH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transpn. Co.....	Do.
Do.....	KGDL	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	N	Cherokee-Seminole S. S. Corp.....	Do.
Alice Cooke.....	WJDO	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Northern Products Corp.....	Owner.
A. L. Kent.....	KDLL	131 (2,290), 133 (2,255), 135 (2,220), 137 (2,190), 139 (2,160), 141 (2,130), 143 (2,100), 145 (2,070), 147 (2,040), 149 (2,015), 151 (1,985), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Mystic S. S. Co.....	R. M. C. A.
Alki.....	WQBX	2,350 (127.7)	P	X	City of Seattle, Fire Dept.....	Do.
All America.....	KDWF	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	P	X	All America Cable Co.....	
Alleghany.....	KFGA	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Merchants & Miners Transpn. Co.....	R. M. C. A.
Almeria Lykes.....	KOTJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Lykes Bros. S. S. Co.....	Do.
Alma.....	WLCU	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Arthur Curtis James.....	Do.
Alpena.....	WADU	189 (1,585), 394 (760), 410 (730)	P	X	Wyandotte Transpn. Co.....	Owner.
Alpha.....	KIMS	375 (800), 410 (730), 425 (705), 455 (660), 500 (600)	PG	X	Alpha S. S. Corp.....	R. M. C. A.
Altair.....	KDBC	375 (800), 425 (705), 500 (600)	PG	X	Standard Transpn. Co.....	Do.
Amasa Stone.....	WPBC	143 (2,100), 151 (1,985), 157 (1,910), 153 (1,960), 155 (1,935), 375 (800), 394 (760), 410 (730)	PG	X	Interlake S. S. Co.....	
Amazon.....	KDXP	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.....	Do.
Ambridge.....	KIFQ	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	Do.
A. M. Byers.....	WADD	375 (800), 410 (730), 425 (705)	PG	X	R. iss. S. S. Co.....	Owner.
Amelia.....	WEDO	375 (800), 425 (705), 500 (600)	PG	X	Amelia S. S. Corp.....	R. M. C. A.



COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
America.....△	KDOW	131 (2,290), 133 (2,260), 135 (2,220), 137 (2,190), 139 (2,160), 141 (2,130), 143 (2,100), 145 (2,070), 147 (2,040), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 454 (660), 500 (600).	PG	N	United States Lines.....	
American.....△	WACA	375 (800), 425 (705), 500 (600).....	PG	X	American Hawaiian S. S. Co.....	Owner.
American Banker.....△	WBDA	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	N	United States Lines.....	R. M. C. A.
American Farmer.....△	WBDB	do.....	PG	N	do.....	Do.
American Legion.....△	KDTM	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,987), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600).	PG	N	Munson S. S. Line.....	Do.
American Merchant.....△	WF DL	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	N	United States Lines.....	
American Press.....△	KUDN	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	Do.
American Shipper.....△	WEDZ	do.....	PG	N	United States Lines.....	
American Trader.....△	WFDC	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	N	do.....	
Amida.....△	WSBU	125 (2,400), 137 (2,190), 141 (2,150), 143 (2,100), 145 (2,070), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,887), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 455 (660), 468 (640), 500 (600).	PG	X	E. R. Behrend.....	Do.
Amolco.....	WCCD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	Steamship Amolco Corp.....	Do.
Anaconda.....	KOFD	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	X	U. S. S. B.....	Do.
Anacortes.....	KQOA	do.....	PG	X	do.....	Do.
Ancon.....△	WCCI	do.....	PG	N	Panama R. R. Co.....	Do.
Anfrea F. Luckenbach.....△	KIFV	375 (800), 425 (705), 500 (600).....	PG	N	Luckenbach S. S. Co.....	Do.
Angeles (see The Angeles).						
Angeline.....△	KFNM	375 (800), 410 (730), 425 (705).....	PG	X	Presque Isle Transpn. Co.....	Owner.
Anna Helen.....	WRBB	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600), 5,525 (54.3), 5,555 (54), 8,450 (35.5), 11,050 (27.15), 11,110 (27).	P	X	Dr. William F. Good.....	Do.
Annapolis.....	KDOM	500 (600), 425 (705).....	PG	X	City of Baltimore.....	Do.
Ann Arbor No. 3.....	WDCN	375 (800), 410 (730), 394 (760).....	PG	X	Ann Arbor R. R. Co.....	Owner.
Ann Arbor No. 4.....	WDCO	375 (800), 394 (760), 410 (730).....	PG	X	do.....	Do.
Ann Arbor No. 5.....	WDCP	do.....	PG	X	Empire Trust Co.....	Do.
Ann Arbor No. 6.....	WDCQ	do.....	PG	X	Ann Arbor Boat Co.....	Do.
Ann Arbor No. 7.....	WDCK	do.....	PG	X	Ann Arbor R. R. Co.....	Do.
Annetta.....	WEDP	375 (800), 425 (705), 500 (600).....	PG	X	Annetta S. S. Corp.....	R. M. C. A.
Anniston City.....	KDSG	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 468 (640), 500 (600).	PG	X	U. S. Steel Products Co.....	Do.
Ansonia.....	WGDF	2,268 (132.4), 5,600 (53.57).....	P	X	Crosby Fisheries.....	
Antietam.....	KONR	375 (800), 425 (705), 500 (600).....	PG	X	Antietam S. S. Corp.....	R. M. C. A.
Antilla.....	WECS	do.....	PG	X	New York & Cuba Mail S. S. Co.....	Do.
Antinous.....	KDAX	do.....	PG	X	U. S. S. B.....	Do.
Antonia.....	KOLD	500 (600).....	PG	X	Madrigal & Co.....	
Antonio.....	KZBZ	do.....	PG	X	Vicente Madrigal.....	Owner.
Aquarius.....	KUSN	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	R. M. C. A.

RADIO DIVISION, DEPARTMENT OF COMMERCE

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Aquilo.....	KOCJ	do	PG	X	H. F. Alexander.....	Owner.
Ara.....	KFBO	125 (2,400), 131 (2,290), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	William K. Vanderbilt.....	Do.
Aras.....	KGA A	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Hugh J. Chisholm jr.....	R. M. C. A.
Arbutus.....	KDWV	375 (800), 425 (705), 500 (600)	PG	X	Union Shipbuilding Co.....	Do.
Arcadia.....	KFZL	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 468 (640), 500 (600).	PG	X	Mrs. Margaret S. Hardwick.....	Do.
Archer.....	WLCQ	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	Do.
Aretic.....	WQCM	do	PG	X	Alaska Packers Assn.....	Owner.
Areturus.....	KURD	do	PG	X	U. S. S. B.....	R. M. C. A.
Ardmore.....	WBCQ	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600).	PG	X	Ardmore S. S. Co.....	Do.
Argon.....	KUDD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transpn. Co.....	Do.
Argosy.....	KDHL	375 (800), 420 (715), 425 (705), 454 (660), 500 (600)	PG	X	American Seantic Line (Inc.).....	Do.
Ario.....	KUIM	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transpn. Co.....	Do.
Arizona.....	WPCU	410 (730), 425 (705)	PG	X	Goodrich Transit Co.....	Do.
Arizonan.....	KUGV	375 (800), 425 (705), 500 (600)	PG	X	Williams S. S. Corp.....	Do.
Arizpa.....	KULS	do	PG	X	U. S. S. B.....	Do.
Arlyn.....	KEKQ	do	PG	X	A. H. Bull & Co.....	Do.
Armiinda.....	KFZD	425 (705), 500 (600)	PG	X	William E. Hedger.....	I. R. T. Co.
Artemis.....	WFDL	375 (800), 425 (705), 500 (600)	PG	N	U. S. S. B.....	R. M. C. A.
Artigas.....	KURG	do	PG	X	do	Do.
Aryan.....	KOLB	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Texas Co.....	Do.
Asher J. Hudson.....	KDWG	425 (705), 500 (600)	PG	X	Sabine Towing Co.....	Do.
Ashtabula.....	WBDD	375 (800), 394 (760), 410 (730)	PG	X	Pennsylvania & Ontario Nav. Co.....	R. C. A.
Astoria.....	KQEP	375 (800), 425 (705), 500 (600)	PG	X	Hammond Lumber Co.....	M. R. T. Co.
Do.....	WJDV	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Quincy S. S. Co.....	R. M. C. A.
Astral.....	WSCG	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 469 (640), 500 (600).	PG	X	Standard Transpn. Corp.....	Do.
Ateana.....	KDAK	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 469 (640), 500 (600).	PG	N	United Fruit S. S. Corp.....	T. R. T. Co.
Atlanta City.....	KDSW	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	U. S. Steel Products Co.....	R. M. C. A.
Atlantic.....	WBCO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Argonaut S. S. Co.....	Do.
Do.....	WQBG	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 469 (640), 500 (600).	PG	X	Gerard B. Lambert.....	Do.
Atlantic Refining Co.....	KGZZ	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 469 (640), 500 (600)	PG	X	Atlantic Refining Co.....	Do.
Atlantic Sun.....	KU MS	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 469 (640), 500 (600)	PG	X	Sun Oil Co.....	Do.
Atlas.....	WSCI	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 469 (640), 500 (600)	PG	X	Standard Transportation Co.....	Do.
Aurora.....	KFRX	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do	Do.
Australia.....	WQBV	137 (2,190), 143 (2,098), 151 (1,987), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Texas S. S. Co.....	M. R. T. Co.
Avalon.....	WQCV	2,740 (109.5)	P	X	Wilmington Transportation Co.....	Owner.
Axtel J. Byles.....	WPBJ	125 (2,400), 137 (2,190), 141 (2,128), 143 (2,098), 151 (1,987), 153 (1,961), 157 (1,911), 159 (1,887), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 469 (640).	PG	X	Tidewater Associated Transport Corp.....	R. M. C. A.
Aztec.....	WJDL	375 (800), 425 (705), 500 (600)	PG	X	Albert C. Burrage.....	Do.
Bafshe.....	KEN X	do	PG	X	Sabine Towing Co.....	Do.
Bakersfield.....	KIZC	do	PG	X	U. S. S. B.....	Do.
Baldbutte.....	KISM	do	PG	X	Baldbutte S. S. Co.....	Do.

RADIO STATIONS OF THE UNITED STATES

## COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

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Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Baldhill	KOBV	375 (800), 426 (705), 500 (600)	PG	X	Baldhill S. S. Co.	
Ballantrae	WJDS	2,740 (109.5), 3,420 (87.7)	P	X	Trenton Mercer Area Council, Boy Scouts of America.	Owner.
Ballecamp	KENV	375 (800), 425 (705), 500 (600)	PG	X	Ford Motor Co.	R. C. A.
Ballenas	KEMZ	343 (875), 420 (715), 426 (705), 500 (600)	PG	X	Ballenas Co., (Inc.)	
Balsam	KILC	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Bangu	KODZ	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Bannack	KIZQ	do.	PG	X	do.	Do.
Bantu	WDCU	do.	PG	X	U. S. Steel Products Co.	Do.
Baracoa	KEDN	375 (800), 410 (730), 425 (705), 454 (660)	PG	X	Colombian S. S. Co.	Do.
Barbara	KZAI	375 (800), 425 (705), 500 (600)	PG	X	A. H. Bull S. S. Co.	Do.
Barbara Cates	KJOO	do.	PG	X	Sudden and Christenson	Do.
Barlow	WLAE	143 (2,100), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	PG	X	Ford Motor Co.	M. R. T. Co.
Barney, Jr.	WOBY	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Bellingham Tug & Barge Co.	R. C. A.
Barralton	KIDT	do.	PG	X	Ford Motor Co.	Owner.
Barranca	KIFR	375 (800), 425 (705), 500 (600)	PG	X	New Orleans Coal & Bisso Towboat Co.	R. C. A.
Barreado	KICR	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Owner.
Barrenfork	KIJD	426 (705), 500 (600)	PG	X	S. A. Guilds	
Barron F	WIDS	2,320 (129.3)	PG	X	Nakat Packing Co.	Do.
Barryton	KIIF	343 (875), 420 (715), 425 (705), 500 (600)	PG	X	Barryton Co. (Inc.)	
Barwick	KOBR	375 (800), 425 (705), 500 (600)	PG	X	Barwick (Inc.)	R. M. C. A.
Bascobel	KOFS	do.	PG	X	Tennessee Coal, Iron & Railroad Co.	Owner.
Baton Rouge	KDVX	273 (1,100)	P	X	Inland Waterways Corp.	Do.
Bayonne	KFAG	375 (800), 425 (705), 500 (600)	PG	X	Vacuum Oil Co.	Do.
Bayou Chico	KDGG	do.	PG	X	U. S. S. B.	
Bayport	KUIC	do.	PG	X	do.	
Bay State Fishing Co. (general call for all vessels)	KFYY	do.			Bay State Fishing Co.	
Beaconhill	KEXV	375 (800), 425 (705), 500 (600)	PG	X	Beacon Oil Co.	R. M. C. A.
Beaconlight	KUTX	do.	PG	X	National Bank of Commerce in New York.	Do.
Beaconoil	KIVR	do.	PG	X	do.	Do.
Bearrice	KFSO	do.	PG	X	A. H. Bull S. S. Co.	Do.
Belfast	WECA	do.	PG	X	Eastern Steamship Lines (Inc.)	Do.
Bellbuckie	KITK	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Belleplaine	KOKF	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Bellflower	KOPQ	do.	PG	X	do.	Do.
Bellhaven	KOFC	do.	PG	X	do.	Do.
Bellingham	KUDQ	do.	PG	X	Tacoma Oriental S. S. Co.	Owner.

RADIO DIVISION, DEPARTMENT OF COMMERCE



Benjamin Brewster	△ WOCK	125 (2,400), 131 (2,280), 137 (2,180), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Standard Shipping Co.	R. M. C. A.
Benson Ford	△ KFPC	143 (2,100), 157 (1,910)	P	X	Ford Motor Co.	R. C. A.
Bering	△ KGDV	375 (800), 425 (705), 500 (600)	PG	X	Alaska Packers Assn.	Owner.
Berkshire	△ KPFE	do	PG	X	Merchants & Miners Transpn. Co.	R. M. C. A.
Do	△ KUVG	do	PG	X	Berkshire S. S. Co.	Do.
Berwindglen	△ WKDC	do	P	X	Wilmore S. S. Co.	Owner.
Beryle E.	WIDK	2,320 (129.3)	PG	X	Alaska Pacific Salmon Corp.	R. M. C. A.
Berury	KINR	375 (800), 425 (705), 500 (600)	P	X	U. S. S. B.	Do.
Bessemer	KIGT	375 (800), 400 (705), 425 (705), 468 (640)	PG	X	Atlantic Refining Co.	Do.
Bessemer City	KDOF	375 (800), 425 (705), 500 (600)	PG	X	U. S. Steel Products Co.	Do.
Beta	WEDB	do	PG	X	Beta S. S. Corp.	Do.
Bethlehem Shipbuilding Corporation <sup>1</sup>	KUPP	do	PG	X	Bethlehem Shipbuilding Corp.	Owner.
Bethore	KDWW	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Ore S. S. Corp.	R. M. C. A.
Betterton	△ KUBG	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Associated Oil Co.	M. R. T. Co.
Betty R.	KDTF	500 (600), 2,740 (109.5), 3,420 (87.7), 5,525 (54.3), 5,555 (54)	P	X	Edward C. Crossett	Owner.
B. H. Taylor	△ KFLK	410 (730), 425 (705)	PG	X	Bradley Transp. Co.	Do.
Bibbco	KDHJ	375 (800), 425 (705), 500 (600)	PG	X	Mississippi Shipping Co.	R. M. C. A.
Biboco	KBUM	131 (2,200), 137 (2,180), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 500 (600).	PG	X	U. S. S. B.	Do.
Bidwell	KESQ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sun Oil Co.	Do.
Big Bill	WBDX	500 (600), 1,500 (200), 1,714 (175), 2,000 (150), 2,856 (105)	P	X	South Seas Research Co.	Owner.
Billow	KFXU	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Bay State Fishing Co.	R. M. C. A.
Bird City	△ KOBP	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	American Scantic Line (Inc.)	Do.
Birkenhead	△ KDVL	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Vacuum Oil Co.	Do.
Birmingham	KFME	273 (1,100)	P	X	Inland Waterways Corp.	Owner.
Birmingham City	KUTT	375 (800), 425 (705), 500 (600)	PG	X	U. S. Steel Products Co.	R. M. C. A.
Black Point	△ WFDH	do	PG	X	Black Point S. S. Co.	Do.
Blaine	WHDY	2,740 (109.5)	PG	X	E. V. Rideout Co.	Owner.
Bogota	KORQ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	P	X	Columbian S. S. Co.	R. M. C. A.
Bohemia	KGBK	345 (870), 375 (800), 425 (705), 500 (600)	PG	X	Pathé Studios (Inc.)	Do.
Bohemian Club	KDTB	125 (2,400), 131 (2,280), 137 (2,180), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 500 (600).	PG	X	Atlantic Refining Co.	Do.
Bohol	KZCF	500 (600)	PG	X	Compania Maritima	Owner.
Bolivar	KIQP	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Columbian S. S. Co.	R. M. C. A.
Bonnie Brook	KDGX	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Borongan	KZPD	500 (600)	PG	X	Juan Sandoval Co. Juanco	Owner.
Boston	△ WECB	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Eastern S. S. Lines (Inc.)	R. M. C. A.
Boston College	WTRG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Trawler Boston College (Inc.)	Do.
Bowdoin	WDDE	500 (600), 2,752 (100), 4,212 (69.56), 8,625 (34.78), 12,940 (23.18)	PG	X	MacMillan Arctic Assn	Owner.
Braddock	KETG	375 (800), 425 (705), 500 (600)	P	X	U. S. S. B.	R. M. C. A.
Brandon	KFYL	375 (800), 410 (730), 425 (705)	PG	X	Rutland Lake Michigan Transit Co.	Do.
Brant	KUDB	375 (800), 425 (705), 500 (600)	PG	X	Portland Trawling Co.	Do.
Brave Coeur	KOQN	do	PG	X	U. S. S. B.	Do.
Brazos	WHCB	do	PG	X	Mallory S. S. Co.	Do.
Breaker	KFXZ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Bay State Fishing Co.	Do.
Breeze	WQBC	do	PG	X	do	Do.
Bridgetown	KUCZ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do	Do.
Bristol	△ KEGC	375 (800), 425 (705), 500 (600)	PG	X	Columbian S. S. Co.	Do.
			PG	X	Coastwise Transp. Corp.	Do.

<sup>1</sup> Portable set placed on board vessels during trial trip.

COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account set- tled by—
Broad Arrow.....Δ	WSCJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transpn. Co.....	R. M. C. A.
Brookdale.....	WNUO	375 (800), 425 (705), 500 (600)	PG	X	Brookdale S. S. Co.....	
Brookings.....	W X O A	do	PG	X	Andrew F. Mahony Co.....	M. R. T. Co.
Brooks-Scanlon.....	KGBI	425 (705), 500 (600)	PG	X	Brooks-Scanlon Corp.....	Owner.
Brush.....	KIJM	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	
Buccaneer.....	WIDH	375 (800), 410 (730), 425 (705), 3,436 (87.3), 4,148 (72.32)	PG	X	Charles C. West.....	Do.
Buddy.....	WKDN	2,320 (129.3)	P	X	Far West Fisheries (Inc.).....	Do.
Buenaventura.....	KOMC	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Panama R. R. Co.....	R. M. C. A.
Bull S. S. Co. (general call for all vessels).	WABS				A. H. Bull S. S. Co.....	Owner.
Buttercup.....	KJKT	143 (2,100), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	PG	X	Ford Motor Co.....	R. C. A.
Bylail.....Δ	KSOU	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pocahontas S. S. Co.....	R. M. C. A.
Byron B. Benson.....	KDWN	do	PG	X	Tidewater Oil Co.....	Do.
Cabrillo.....	WADK	375 (800), 425 (705), 500 (600)	PG	X	Wilmington Transpn. Co.....	
C. A. Canfield.....Δ	WPCA	do	PG	X	Pan American Petroleum & Trans- port Co.....	Do.
Cacique.....	WMCQ	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Grace S. S. Co.....	Do.
Cadaretta.....	WLOO	375 (800), 425 (705), 500 (600)	PG	X	Charles Nelson Co.....	Do.
Caddopeak.....	WPUE	do	PG	X	do.....	Owner.
Cadillac.....Δ	KFNN	375 (800), 410 (730), 425 (705)	PG	X	Cleveland Cliffs S. S. Co.....	
Cairo.....	KDQW	273 (1,100)	P	X	Inland Waterways Corp.....	Do.
Calamares.....Δ	KDAW	137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 147 (2,040), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).	PG	X	United Fruit S. S. Corp.....	T. R. T. Co.
Calawaii.....	KFDT	137 (2,190), 143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600).	PG	X	Los Angeles S. S. Co.....	M. R. T. Co.
Calcite.....Δ	KDZN	410 (730), 425 (705)	PG	X	Bradley Transpn. Co.....	Owner.
Caliche.....	WQBR	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 159 (1,885), 375 (800), 500 (600).	PG	X	Anglo Chilean Consolidated Nitrate Corp.....	R. M. C. A.
California.....Δ	KDRC	137 (2,190), 143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600).	PG	X	Texas S. S. Co.....	M. R. T. Co.
Do.....	KUKV	375 (800), 425 (705), 500 (600)	PG	X	States S. S. Co.....	Owner.
Do.....Δ	W M C M	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,098), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600), 5,525 (54.3), 8,290 (36.19), 8,390 (35.76), 11,170 (26.86), 11,260 (26.64), 12,550 (23.90), 12,490 (24.02).	PG	X	American Line S. S. Corp.....	R. M. C. A.
Californian.....Δ	WACB	375 (800), 425 (705), 500 (600)	PG	X	American Hawaiian S. S. Co.....	Owner.
California Standard.....Δ	WSBR	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 455 (660), 468 (640), 500 (600).	PG	X	Standard Oil Co. of California.....	R. M. C. A.
Calmar.....Δ	KDBY	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Calmar S. S. Corp.....	Do.

Calmar S. S. Corp. and Ore S. S. Corp. (general call for all vessels).	WCBO				Calmar S. S. Corp. and Ore S. S. Corp.	Do.
Caloria	WKCP	375 (800), 425 (705), 500 (600)	PG	X	Standard Fruit & S. S. Co.	Do.
Calvin Austin	WECG	do	PG	X	Eastern S. S. Lines (Inc.)	Do.
Camaguey	WECT	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	New York & Cuba Mail S. S. Co.	Do.
Camargo	WRBY	141 (2,130), 143 (2,100), 145 (2,070), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Julius Fleischmann	Do.
Cambridge	WBCE	375 (800), 425 (705), 500 (600)	PG	X	New York & New Orleans S. S. Co.	Do.
Camden	KDKL	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	United Fruit Tanker Corp.	T. R. T. Co.
Do	WPCD	375 (800), 425 (705), 500 (600)	PG	X	Eastern S. S. Lines (Inc.)	R. M. C. A.
Campeador	KZBV	317 (952), 398 (755), 500 (600)	PG	X	Visayan Stevedore Transpn. Co.	Owner.
Cananova	KDBN	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Cananova S. S. Corp.	R. M. C. A.
Canumset	KIQD	426 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Capac	KOMD	141 (2,130), 143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG, X	X	Grace S. S. Co.	Do.
Capillo	KUPN	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Capitan Luis	KZCL	500 (600)	PG	X	Teodoro R. Yangco	Owner.
Captain A. F. Lucas	WOCB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California	R. M. C. A.
Capt. John W. McKie	KFFI	273 (1,100)	P	X	Inland Waterways Corp.	Owner.
Captain William	WQBK	2,740 (109.5)	P	X	Wilmington Transpn. Co.	Do.
Capulin	KUZR	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Carabobo	WQCH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Atlantic & Caribbean Steam Nav. Co.	Do.
Caracas	WQCA	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 469 (640), 500 (600)	PG	X	do	Do.
Cardonia	KUVV	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Carissima	WKDG	410 (730), 425 (705)	PG	X	J. A. Talbot	Do.
Carl D. Bradley	WOBK	375 (800), 425 (705), 500 (600)	PG	X	Bradley Transpn. Co.	Owner.
Carlton	KDDK	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Carnegie	WBSB	4,755 (63.1), 5,525 (54.3), 5,615 (53.43), 6,575 (45.62), 9,050 (33.15), 13,600 (22.06), 18,260 (16.429), 27,320 (10.981)	P	X	Carnegie Institution, of Washington	Owner.
Carolina	WPCV	375 (800), 410 (730), 425 (705)	PG	N, X	Goodrich Transit Co.	R. C. A.
Caroline	KFZO	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Eldridge R. Johnson	R. M. C. A.
Carolyn	WKCA	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	A. H. Bull S. S. Co.	Do.
Carplaka	KDES	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Carrabulle	KDER	do	PG	X	Cuba Distilling Co.	Do.
Carrillo	KDAE	137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 147 (2,040), 149 (2,015), 151 (1,985), 153 (1,960), 454 (660), 468 (640), 500 (600)	PG	N	United Fruit S. S. Corp.	T. R. T. Co.
Carriso	WJUO	375 (800), 425 (705), 500 (600)	PG	X	Carriso (Inc.)	R. M. C. A.
Cartago	KDAA	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 468 (640), 500 (600)	PG	N	United Fruit S. S. Corp.	T. R. T. Co.
Cascade	KDIS	375 (800), 425 (705), 500 (600)	PG	X	E. K. Wood Lumber Co.	Owner.
Casco	BR	2,752 (109)	P	X	Richard W. Seabury	Do.
Casey	KOQJ	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Casiana	WLCT	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Edward L. Doheny	R. M. C. A.
Cassinir	KDDZ	375 (800), 425 (705), 500 (600)	PG	X	Cuba Distilling Co.	Do.
Castana	KDFE	do	PG	X	Steamer Castana Corp.	Do.
Cataboula	KDFG	do	PG	X	Cuba Distilling Co.	Do.
Catalina	KFTP	do	PG	N	Wilmington Transpn. Co.	Do.

COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Catherine.....	KTOI	375 (800), 425 (705)	PG	N	A. H. Bull.....	
Catherine D.....	KMAI	137 (2190), 143 (2100), 151 (1985), 160 (1875), 375 (800), 425 (705), 500 (600)	PG	X	Pacific American Fisheries.....	R. M. C. A.
Catherine G. Sudden.....	KFKR	375 (800), 425 (705), 500 (600)	PG	X	Sudden & Christenson.....	Owner.
Cathlamet.....	KOLP	do.....	PG	X	American West African Line (Inc.).....	R. M. C. A.
Cathwood.....	KURC	375 (800), 425 (705), 500 (600)	PG	X	Union Oil Co. of California.....	M. R. T. Co.
Cauto.....	WECU	375 (800), 410 (730), 425 (705), 454 (660)	PG	X	New York & Cuba Mail S. S. Co.....	R. M. C. A.
Cayo Mambi.....	KUZZ	do.....	PG	X	Cayo Mambi S. S. Corp.....	Do.
C. B. Watson.....	WFDI	375 (800), 425 (705), 500 (600)	PG	X	Sabine Towing Co.....	Do.
C. C. Webber.....	WOBM	273 (1100), 500 (600)	P	X	Inland Waterways Corp.....	Owner.
C. D. Johnson III.....	KDIT	375 (800), 425 (705), 500 (600)	PG	X	Pacific Spruce Corp.....	M. R. T. Co.
Cebu.....	KZAX	375 (800), 500 (600)	PG	X	Compania Maritima.....	Owner.
Cecil County.....	KERZ	375 (800), 425 (705), 500 (600)	PG	X	Oil Transport Co.....	R. M. C. A.
Cedarhurst.....	KDIQ	do.....	PG	X	Steamer Cedarhurst Corp.....	Do.
Celilo.....	WCDU	375 (800), 425 (705), 500 (600)	PG	X	Chas. R. McCormick Lumber Co.....	Owner.
Centaurus.....	KOPZ	375 (800), 400 (750), 425 (705), 468 (640)	PG	X	Planet S. S. Corp.....	R. M. C. A.
Centurio.....	KDVZ	425 (705), 500 (600)	PG	X	U. S. S. B.....	Owner.
Cerro Azul.....	KDQY	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.....	R. M. C. A.
Cerro Ebano.....	KDQS	do.....	PG	X	do.....	Do.
Cethana.....	KORG	426 (705), 500 (600)	PG	X	Pacific Motorship Co.....	Owner.
Chahunta.....	WTBK	375 (800), 425 (705), 500 (600)	PG	X	Lincoln County Tug & Barge Co.....	Do.
Challenger.....	WNII	do.....	PG	X	Sun Shipbuilding & Drydock Co.....	R. M. C. A.
Charcas.....	KITZ	375 (800), 425 (705), 500 (600)	PG	X	Grace S. S. Co.....	Do.
Charles Christenson.....	KINP	do.....	PG	X	Christenson S. S. Co.....	M. R. T. Co.
Charles C. West.....	KFKX	375 (800), 410 (730), 425 (705)	PG	X	Rockport S. S. Co.....	Owner.
Charles E. Harwood.....	WPCB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.....	R. M. C. A.
Charles G. Black.....	KGDD	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.....	Do.
Charles H. Cramp.....	KDHI	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Nautilus S. S. Corp.....	Do.
Charles L. Hutchinson.....	WMIU	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.....	
Charles L. O'Connor.....	WMEA	375 (800), 425 (705), 500 (600)	PG	X	M. & J. Tracy.....	Do.
Charles M. Everest.....	WPOU	375 (800), 400 (750), 425 (705), 468 (640)	PG	X	Vacuum Oil Co.....	Do.
Charles M. Schwab.....	WPBD	143 (2,100), 157 (1,910), 375 (800), 5,525 (54.3), 5,555 (54), 5,615 (53.428), 8,330 (36.01), 410 (730), 394 (760)	PG	X	Interlake S. S. Co.....	R. C. A.
Charles Pratt.....	WOCM	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.....	R. M. C. A.
Charles R. McCormick.....	KDBZ	375 (800), 425 (705), 500 (600)	PG	X	Charles R. McCormick Lumber Co.....	Do.
Charles Watson.....	KDLA	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California.....	Do.
Charlton Hall.....	WDCV	375 (800), 425 (705), 500 (600)	PG	X	U. S. Steel Products Co.....	Do.
Chatham.....	KGAN	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Merchants & Miners Transpn. Co.....	Do.
Chattanooga City.....	KDUW	375 (800), 425 (705), 500 (600)	PG	X	U. S. Steel Products Co.....	Do.



Cherokee.....	△ WTCI	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)
Chester O. Swain.....	△ WRBK	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)
Chester Valley.....	KOST	375 (800), 425 (705), 500 (600)
Chester W. Chapin.....	WRBQ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)
Chickamauga.....	KFXA	425 (705), 500 (600)
Chickasaw.....	KOJR	375 (800), 425 (705), 500 (600)
Chickasaw City.....	KUNZ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)
Chilbar.....	KENS	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)
Chilcop.....	△ KGGG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)
Chilkat.....	KFFN	375 (800), 425 (705), 500 (600)
Chiloil.....	KUPV	do.
Chilore.....	KFIW	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)
Chilscot.....	△ KDHU	375 (800), 425 (705), 500 (600)
China Arrow.....	△ KDGW	375 (800), 400 (750), 425 (705), 454 (660), 468 (640), 500 (600)
Chincha.....	WCCB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)
Chippewa.....	KDJS	375 (800), 410 (730), 425 (705)
Chirikof.....	△ WMCC	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)
Christopher Columbus.....	△ WPCW	375 (800), 410 (730), 425 (705)
Christy Payne.....	△ WRBM	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)
Churruea.....	KZPC	396 (755), 500 (600)
Circinus.....	KOPK	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)
Cities Service Empire.....	KMAU	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)
Cities Service Fuel.....	WHCP	375 (800), 425 (705), 500 (600)
Cities Service Kool motor.....	WGAO	125 (2,400), 143 (2,100), 151 (1,985), 159 (1,885), 375 (800), 425 (705), 500 (600)
Cities Service Petrol.....	△ KDMB	375 (800), 425 (705), 500 (600)
Cities Service Toledo.....	WOCB	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)
City of Altou.....	KONZ	375 (800), 425 (705), 500 (600)
City of Atlanta.....	WFCL	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)
City of Bangor.....	WECM	375 (800), 425 (705), 500 (600)
City of Benton Harbor.....	WPCX	375 (800), 410 (730), 425 (705)
City of Birmingham.....	WFCK	137 (2,160), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)
City of Buffalo.....	WTCR	375 (800), 410 (730), 425 (705)
City of Chattanooga.....	WFCL	137 (2,160), 141 (2,130), 142 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)
City of Cleveland Ill.....	△ WNMC	143 (2,100), 157 (1,910), 375 (800), 394 (740), 410 (730), 425 (705)
City of Columbus.....	WFCM	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)
City of Dalhart.....	KDNP	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 149 (2,015), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 500 (600)
City of Dallas.....	KOPV	375 (800), 425 (705), 500 (600)
City of Detroit Ill.....	△ WNVC	143 (2,100), 375 (800), 394 (740), 410 (730), 157 (1,910), 425 (705)
City of Elwood.....	KDMV	do.
City of Erie.....	WTCS	375 (800), 410 (730), 425 (705)
City of Fairbury.....	△ KJSR	375 (800), 425 (705), 500 (600)
City of Flint.....	KUCV	do.
City of Fort Worth.....	KONM	do.

PG	N	Cherokee Seminole S. S. Corp.....	Do.
PG	X	Standard Shipping Co.....	Do.
PG	X	U. S. S. B.....	Do.
PG	X	New England S. S. Co.....	Do.
PG	X	Pacific Tow Boat Co.....	Do.
PG	X	U. S. S. B.....	Do.
PG	X	U. S. Steel Products Co.....	Do.
PG	X	Chile S. S. Co.....	Do.
PG	X	do.....	Owner.
PG	X	Alaska Packers Assn.....	R. M. C. A.
PG	X	Chile S. S. Co.....	Do.
PG	X	Ore S. S. Corp.....	Do.
PG	X	Chile S. S. Co.....	Do.
PG	X	Standard Transp. Co.....	Do.
PG	X	American South African Line.....	Do.
PG	X	Pioneer S. S. Co.....	Owner.
PG	X	Alaska Packers Assn.....	R. C. A.
PG	X	Goodrich Transit Co.....	R. M. C. A.
PG	X	Standard Shipping Co.....	
PG	X	Ty Camco Sobrino.....	Owner.
PG	X	Planet S. S. Corp.....	R. M. C. A.
PG	X	Cities Service Transp. Co.....	M. R. T. Co.
PG	X	do.....	R. M. C. A.
PG	X	Cities Service Refining Transport Co.....	M. R. T. Co.
PG	X	Cities Service Transp. Co.....	R. M. C. A.
PG	X	do.....	M. R. T. Co.
PG	X	U. S. S. B.....	R. M. C. A.
PG	X	Ocean S. S. Co. of Savannah.....	Do.
PG	X	Eastern S. S. Line.....	R. C. A.
PG	X	Goodrich Transit Co.....	R. M. C. A.
PG	N	Ocean S. S. of Savannah.....	
PG	X	Cleveland & Buffalo Transit Co.....	Do.
PG	N	Ocean S. S. of Savannah.....	
PG	N	Detroit & Cleveland Nav. Co.....	R. C. A.
PG	N	Ocean S. S. Co. of Savannah.....	R. M. C. A.
PG	X	U. S. S. B.....	Do.
PG	X	Southern S. S. Co.....	Owner.
PG	N	Detroit & Cleveland Nav. Co.....	R. M. C. A.
PG	X	U. S. S. B.....	
PG	X	Cleveland & Buffalo Transit Co.....	M. R. T. Co.
PG	X	American Scantic Line (Inc.).....	R. M. C. A.
PG	X	U. S. S. B.....	Owner.
PG	X	Southern S. S. Co.....	

RADIO STATIONS OF THE UNITED STATES



COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
City of Grand Rapids...	KFIS	375 (800), 410 (730), 425 (705)				
City of Holland.....	KFES	do.	PG	X	Goodrich Transit Co.	R. C. A.
City of Honolulu.....	WSCS	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 451 (660), 468 (640), 500 (600)	PG PG PG	X X N	do. Los Angeles S. S. Co.	Do. R. M. C. A.
City of Houston.....	KONS	375 (800), 425 (705), 500 (600)				
City of Loliet.....	KUJR	do.	PG	X	Southern S. S. Co.	Owner.
City of Los Angeles.....	KOZC	125 (2,400), 143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
City of Lowell.....	WRCB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Los Angeles S. S. Co.	Do.
City of Montgomery.....	WFCN	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	New England S. S. Co.	Do.
City of New York.....△	WFRT	375 (800), 400 (750), 425 (705), 500 (600), 3,290 (91.2), 4,405 (68.1), 5,650 (53.1), 6,650 (45.59), 8,810 (34.05), 11,200 (26.78), 11,300 (26.55), 13,187 (22.75), 16,717 (17.945), 16,800 (17.857), 21,805 (13.758)	PG PG	N X, N	Ocean S. S. Co. of Savannah Commander R. E. Byrd	Do. Owner.
City of Omaha.....	KOZB	375 (800), 425 (705), 500 (600)				
City of Philadelphia.....	KONT	do.	PG	X	U. S. S. B.	
City of Rayville.....	KDGS	137 (2,190), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG PG PG	X X X	Southern S. S. Co. U. S. S. B.	Do. R. M. C. A.
City of Saugatuck.....	KFET	375 (800), 410 (730), 425 (705)	PG	X	Goodrich Transit Co.	R. C. A.
City of Savannah.....	WFCC	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Ocean S. S. Co. of Savannah	R. M. C. A.
City of Seattle.....	WBDK	375 (800), 425 (705), 500 (600)	PG	N	Miami S. S. Co.	Owner.
City of St. Joseph.....	KFIT	375 (800), 410 (730), 425 (705)	PG	X	Goodrich Transit Co.	R. C. A.
City of St. Louis.....	WFCP	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Ocean S. S. Co. of Savannah	R. M. C. A.
City of Victoria.....	WSBB	375 (800), 425 (705), 500 (600)	PG	X	Edmonds Victoria Ferry Co.	Owner.
City of Weatherford.....	KUVC	do.	PG	X	U. S. S. B.	R. M. C. A.
Clairton.....	KIKR	do.	PG	N, X	do.	
Clare.....	WKCB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	A. H. Bull S. S. Co.	Do.
Claremont.....	KUBD	375 (800), 425 (705), 500 (600)	PG	N	Hartwood Lumber Co.	Owner.
Clausens.....	KOQB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Planet S. S. Corp.	R. M. C. A.
Clavarack.....	KOLL	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Clearwater.....	KUGD	do.	PG	X	do.	Do.
Clemens A. Reiss.....△	WADE	375 (800), 410 (730), 425 (705)	PG	X	Reiss S. S. Co.	Owner.
Clement Smith.....	KDGO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Oil Transport Co.	R. M. C. A.
Cletus Schneider.....	KMEO	375 (800), 410 (730), 425 (705)	PG	X	Paisley S. S. Co.	
Cleveland Cliffs S. S. Co. (general call for all vessels)	KDYY	do.	PG	X	Cleveland Cliffs S. S. Co.	
Clifford F. Moll.....△	KDWA	375 (800), 410 (730), 425 (705)				
Cliffwood.....	KORX	375 (800), 425 (705), 500 (600)	PG	X	American S. S. Co.	Owner.
Coahoma County.....	KOMP	do.	PG	X	U. S. S. B.	R. M. C. A.
Coamo.....	WKCV	137 (2,160), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG PG	X N	do. Coamo S. S. Corp.	Do. Do.
Coastwise.....	WKCZ	375 (800), 425 (705), 500 (600)				
Coaxet.....	WPUU	do.	PG PG	X X	Coastwise Transportation Corp. U. S. S. B.	Do.

Cockaponset.....	KOFN	do	PG	X	do	Do.
Cody.....	KDEX	do	PG	X	do	Do.
Colleda.....	KOVV	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do	Do.
Cokato.....	WMUE	425 (705), 500 (600)	PG	X	do	Do.
Coldbrook.....	KOQK	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Cold Harbor.....	KUBB	do	PG	X	do	Do.
Coldwater.....	KUCX	do	PG	X	South Atlantic S. S. Co.	Do.
Collamer.....	KOZZ	do	PG	X	U. S. S. B.	Do.
Collingsworth.....	KUKX	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Colombia.....	WNCT	125 (2,400), 137 (2,190), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Panama Mail S. S. Co.	Do.
Colonel.....	WDDS	375 (800), 410 (730), 425 (705)	PG	X	Fontana S. S. Co.	
Colonel James M. Schoonmaker.....	WTBM	375 (800), 410 (730), 454 (660)	PG	X	Shenango Furnace Co.	R. C. A.
Colonel James Pickands.....	WPBE	143 (2,100), 150 (1,985), 153 (1,960), 375 (800), 410 (730), 394 (760), 425 (705), 155 (1,935), 157 (1,910)	PG	X	Interlake S. S. Co.	Do.
Colorado Springs.....	KILK	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Colraire.....	WGD T	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	E. W. Noble	Owner.
Columbian.....	WACC	375 (800), 425 (705), 500 (600)	PG	X	American-Hawaiian S. S. Co.	Do.
Columbie.....	WQBF	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Union Shipbuilding Co.	R. M. C. A.
Conal.....	WHCD	375 (800), 425 (705), 500 (600)	PG	N	Mallory S. S. Co.	Do.
Conber.....	KPCK	375 (800), 400 (750), 425 (705), 468 (500)	PG	X	Bay State Fishing Co.	Do.
Commack.....	KULT	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Commercial Courier.....	WICP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Commercial Courier S. S. Co.	Do.
Commercial Guide.....	WIDD	do	PG	X	Nyanza S. S. Co.	Do.
Commercial Mariner.....	KUDS	do	PG	X	Commercial Mariner S. S. Co.	Do.
Commercial Navigator.....	KIRB	375 (800), 425 (705), 500 (600)	PG	X	Commercial Courier S. S. Co.	Do.
Commercial Orleanian.....	WFCR	do	PG	X	Commercial Mariner S. S. Co.	Do.
Commercial Pioneer.....	KUNC	do	PG	X	Commercial Pioneer S. S. Co.	Do.
Commercial Quaker.....	KUGM	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	do	Do.
Commercial Spirit.....	KDEQ	375 (800), 425 (705), 500 (600)	PG	X	Commercial Spirit S. S. Co.	Do.
Commercial Trader.....	WDDC	do	PG	X	Honolulu S. S. Co.	Do.
Commercial Traveler.....	KDDA	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Commercial Traveler S. S. Co.	Do.
Commissioner.....	KOGZ	375 (800), 425 (705), 500 (600)	PG	X	Merritt-Chapman & Scott Corp.	Do.
Commadore.....	WOBJ	do	PG	X	Lewers & Cooke	Do.
Commonwealth.....	WRCO	400 (750), 425 (705), 468 (640), 500 (600)	PG	X	New England S. S. Co.	Do.
Compania De Filipinas.....	KZEP	500 (600)	PG		Compania General de Tabacos de Filipinas.	Owner.
Comus.....	WICA	375 (800), 425 (705), 500 (600)	PG	N	Southern Pacific Co.	Do.
Concord.....	WRCY	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Colonial Nav. Co.	R. M. C. A.
Condor.....	KDCF	375 (800), 425 (705), 500 (600)	PG	X	Grace S. S. Co.	Do.
Conehatta.....	KUQQ	do	PG	X	U. S. S. B.	Do.
Conneaut.....	WADV	189 (1,585), 394 (760), 410 (730), 425 (705)	P	X	Wyandotte Transpn. Co.	Owner.
Conness Peak.....	KUPL	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Constance Chandler.....	WFEL	do	PG	X	Los Angeles S. S. Co.	M. R. T. Co.
Consuelo.....	KZBY	375 (800), 500 (600)	PG	X	Vicente Madrigal	Owner.
Contoy.....	KSOI	do	PG	X	Gulf Mail S. S. Co.	R. M. C. A.
Coot.....	KUJM	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Portland Trawling Co.	Do.
Coppename.....	KDAF	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 468 (640), 500 (600)	PG	N	United Fruit S. S. Corp.	T. R. T. Co.
Coquina.....	WVAA	375 (800), 425 (705), 500 (600)	PG	X	Pillsbury & Curtis	R. M. C. A.

COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Cordova	KFMF	273 (1,100)	P	X	Inland Waterways Corp.	Owner
Do	WCCS	375 (800), 425 (705), 500 (600)	PG	X	Alaska S. S. Co.	M. R. T. Co.
Corinto	KOQV	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	N	Panama Mail S. S. Co.	R. M. C. A.
Cormorant	WGDU	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Ocean Trawling Co.	Do.
Cornelia	WKCC	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	A. H. Bull S. S. Co.	Do.
Coronado	WBDJ	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Coronet	WRBD	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Irving T. Bush	Do.
Corrales	WPIE	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pillsbury & Curtis	Do.
Corsair	WLCS	do	PG	X	J. P. Morgan	Do.
Corvus	KOPI	do	PG	X	Planet S. S. Corp.	Do.
Costa Rica	WEDJ	375 (800), 425 (705), 500 (600)	PG	N and X	Northern Fisheries (Inc.)	Owner
Cottoneva	KGDN	do	PG	X	Southern Redwood Corp.	Do.
Courageons	WVUA	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Covena	KEMP	375 (800), 425 (705), 500 (600)	PG	X	Hammond Lumber Co.	M. R. T. Co.
Coya	KISC	do	PG	X	Grace S. S. Co.	R. M. C. A.
Craigsmere	WXOO	do	PG	X	M. & J. Tracy	Do.
Crampton Anderson	KDOH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.	Do.
Crawford	KOLX	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Creole	WEDN	425 (705), 500 (600)	PG	X	Cary-Davis Tug & Barge Co.	Owner
Do	WICB	375 (800), 425 (705), 500 (600)	PG	N	Southern Pacific Co.	Do.
Cressida	WNBD	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Herman Oelrichs	R. M. C. A.
Crest	WPBK	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Bay State Fishing Co.	Do.
Cripple Creek	KOJL	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Cristobal	WCCH	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Panama R. R. Co.	Owner
Crofton Hall	WDCW	375 (800), 425 (705), 500 (600)	PG	M	U. S. Steel Products Co.	R. M. C. A.
Crown City	KUSP	do	PG	X	U. S. S. B.	Do.
Crusader	KGFC	do	PG	X	Abram K. Macomber	Do.
Cuba	KDRT	375 (800), 425 (705), 500 (600)	PG	N	Peninsular & Occidental S. S. Co.	Do.
Cubore	KUPP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Cahnar S. S. Corp.	Do.
Culberson	KDDV	125 (2,400), 137 (2,190), 141 (2,130)	PG	X	U. S. S. B.	Do.
Culburra	KOZR	375 (800), 425 (705), 500 (600)	PG	X	Pacific Motorship Co.	M. R. T. Co.
Curacao	WGCL	do	PG	N, X	Pacific S. S. Co.	Do.
Curlew	KOSZ	do	PG	X	Portland Trawling Co.	R. M. C. A.
Do	WRBV	3,320 (90.4), 5,600 (53.57)	PG	X	Alaska Packers Assn.	Owner
Currier	WJCA	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Gulf Refining Co.	R. M. C. A.
Cuzco	KIKM	375 (800), 425 (705), 500 (600)	PG	X	Grace S. S. Co.	Do.
Cyprus	WTBE	do	PG	X	Do.	Do.

Dakotan.....	△	WACD	do.	PG	X	American Hawaiian S. S. Co.	Owner.
Daniel Kern.....		KDXG	do.	PG	X	Bellingham Tug & Barge Co.	Do.
Dannedaikc.....		KOPD	do.	PG	X	Dannedaikc Shipping Co.	R. M. C. A.
Darden.....		KUPK	do.	PG	X	Thos. P. Gallagher & Co.	Do.
Dartford.....		KDAV	do.	PG	X	Gladstone Transpn. Co.	Do.
Dauntless.....		WLCZ	do.	P	X	Herbert W. Hanan	Owner.
Davao.....		KZEC	400 (750), 500 (600)	PG	X	Mariano Cu Unjieng	Do.
Davenport.....		KUDR	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
David McKelvy.....		KDTD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Tidewater Oil Co.	Do.
David P. Flemming.....		WPBS	2,740 (109.5)	P	X	Wilmington Transpn. Co.	Owner.
David P. Thompson.....		KGBP	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.	
Dawn Star.....		WMBP				John J. Morgan	
Dean Emery.....	△	KOFG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.	R. M. C. A.
De Bardeleben.....		KIZD	do.	PG	X	W. G. Coyle & Co.	Do.
D. E. Callender.....	△	WBDF	375 (800), 410 (730), 425 (705)	PG	X	Morrow S. S. Co.	R. C. A.
Deerlodge.....		KIMD	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Defacto.....		KOKC	do.	PG	X	American Sugar Transit Corp.	Do.
Defiance.....		WTBS	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N, X	U. S. S. B.	Do.
Delaware Sun.....		KDWQ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sun Oil Co.	Do.
Delecto.....		WNCP	do.	PG	X	American Sugar Transit Corp.	Do.
Dellina.....		KIVS	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Baltimore Insular Line	Do.
Delight.....		KQOE	do.	PG	X	James Griffiths & Sons	Do.
Delisle.....		KIVT	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Baltimore Insular Line	Do.
Delphine.....	△	KDRR	143 (2,100), 153 (1,960), 157 (1,910), 375 (800), 410 (730), 394 (760), 425 (705)	PG	N	Anna Dodge Dillman	R. C. A.
Demopolis.....		KFMG	237 (1,099)	P	X	Inland Waterways Corp.	Owner.
Denali.....		KDFU	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600)	PG	N, X	Alaska S. S. Co.	M. R. T. Co.
Depere.....		KDHA	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Derblay.....		KDHT	do.	PG	N, X	do.	Do.
Derbyline.....	△	KIRT	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Texas Co.	R. M. C. A.
Deroche.....	△	KOBJ	375 (800), 425 (705), 500 (600)	PG	X	Union Oil Co. of California	Do.
D. G. Scofield.....	△	WOCA	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Standard Oil Co. of California	Do.
Diamond Cement.....	△	KURX	375 (800), 425 (705), 500 (600)	PG	N, X	Pacific Coast S. S. Co.	Do.
Diamond Head.....		KERJ	do.	PG	X	Los Angeles S. S. Co.	Do.
Diana Dollar.....		KDWX	do.	PG	X	Dollar S. S. Line	Do.
Dickenson.....		KPHG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Commercial Pacific Cable Co.	Do.
Dillwyn.....		KODX	375 (800), 425 (705), 500 (600)	PG	X	Malston Co.	Do.
Dilworth.....		KOVJ	125 (2,400), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Dilworth S. S. Co.	
Dio.....		WNEO	375 (800), 410 (730), 425 (705), 454 (650), 500 (600)	PG	X	Finkbine-Guild Transpn. Co.	Do.
Dirigo.....	△	KFGM	375 (800), 425 (705), 500 (600)	PG	X	Texas Co.	Do.
Distriet of Columbia.....	△	KDMZ	125 (2,400), 143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	Standard Oil Co. of California	M. R. T. Co.
Dixiano.....		KDSP	375 (800), 411 (750), 425 (705), 455 (660), 468 (640), 500 (600)	PG	X	American Sugar Transit Co.	R. M. C. A.
Dixie.....	△	WICX	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Southern Pacific Co.	Owner.
Dixie Arrow.....	△	KDVT	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transpn. Co.	R. M. C. A.
D. J. Moran.....		WPCS	375 (800), 425 (705), 500 (600)	PG	X	Gladstone Transpn. Co.	Do.



COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
D. M. Renton	KGEC	2,740 (109.5)	PG	X	Wilmington Transpn. Co.	Owner.
Dochet	KIMR	375 (800), 425 (705), 500 (600)	PG	X	Finkbine-Guild Transpn. Co.	R. M. C. A.
Dodeca	WLCR	do	PG	X	Cary Davis Tug & Barge Co.	Owner.
Dolly C.	KFAL	do	PG	X	do	Do.
Dolphin	KDYZ	do	PG	X	Mortimer L. Schiff	Do.
Dominga-A	KZEB	500 (600), 400 (750)	PG	X	Mariano Cu Unjieng	Do.
Domino	KIZB	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	American Sugar Transit Corp.	R. M. C. A.
Don Jose	KZBW	375 (800), 500 (600)	PG	X	Vicente Madrigal	Owner.
Don Juan O.	KZCZ	500 (600)	PG	X	Rio y Olabarrieta	Do.
Donna Lane	KDGN	375 (800), 425 (705), 500 (600), 8,430 (35.59)	PG	X	Utopian Fisheries, (Inc)	Do.
Doodeen	WIDD	11,170 (26.86), 11,350 (26.43), 16,700 (17.964), 21,820 (13.749)	P	X	W. Charles Swett	Do.
Dora	KOKR	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	S. S. Dora Corp.	R. M. C. A.
Dorchester	KGBG	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	N	Merchants & Miners Transpn. Co.	Do.
Dorothy	KKOA	375 (800), 425 (705), 500 (600)	PG	X	A. H. Bull & Co.	Do.
Do	WKDD				O. O. Hvatum	Owner.
Dorothy Alexander	WGCQ	143 (2,100), 151 (1,935), 157 (1,910), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Pacific S. S. Co.	M. R. T. Co.
Dorothy Bradford	WFDK	375 (800), 425 (705), 500 (600)	PG	X	Cape Cod S. S. Co.	Owner.
Dorothy Cahill	WJDU		PG	X	Sudden & Christenson	M. R. T. Co.
Dorothy Luckenbach	KIJL	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Luckenbach S. S. Co.	R. M. C. A.
Dorothy Wintermote	KLUI	375 (800), 425 (705), 500 (600)	PG	X	Frank Paramino	Do.
Dos Hermanos	KZDD	396.8 (756), 500 (600)	PG	X	Gutierrez Hermanos	Owner.
Douglas	KFMM	375 (800), 425 (705), 500 (600)	PG	X	Cary Davis Tug & Barge Co.	Do.
Doylestown	KIPG	do	PG	X	Charles Nelson Co.	Do.
Dryden	KORK	125 (2,400), 131 (2,290), 133 (2,255), 135 (2,220), 141 (2,130), 143 (2,100), 145 (2,070), 147 (2,040), 149 (2,015), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B	R. M. C. A.
Dulcino	WKCU	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	American Sugar Transit Corp.	Do.
Dungannon	KUZV	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Texas Co.	Do.
Duquesne	KECS	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B	Do.
Durango	KDBT	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Malston Co.	Do.
Dwight F. Davis	WJDE	400 (750), 425 (705), 500 (600), 3,420 (87.7), 6,590 (45.52)	PG	X	Inland Waterways Corp.	Owner.
Eagle	WSCL	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transportation Co.	R. M. C. A.
Easterling	KEJD	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B	Do.
Eastern Crown	KUNQ	do	PG	X	Meteor S. S. Co.	Do.
Eastern Dawn	KUQT	131 (2,290), 137 (2,190), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B	Do.
Easterner	WGEA	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do	Do.
Eastern Glade	KUND	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	American South African Line	Do.



Eastern Glen	KUVB	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)
Eastern Guide	KUCN	375 (800), 425 (705), 500 (600)
Eastern Knight	KUFB	do.
Eastern Planet	KUPD	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,069), 149 (2,015), 151 (1,935), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)
Eastern States	WTCB	375 (800), 157 (1,910), 394 (750), 410 (730), 425 (705), 143 (2,100)
Eastern Temple	KDEZ	375 (800), 425 (705), 500 (600)
East Indian	WGEI	143 (2,100), 151 (1,935), 157 (1,910), 375 (800), 394 (760), 425 (705), 500 (600), 153 (1,960), 155 (1,935), 410 (730)
East Side	KIMQ	375 (800), 425 (705), 500 (600)
Eclipse	KEGF	do.
Ecuador	WNCW	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,835), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)
Edenton	KECB	375 (800), 425 (705), 500 (600)
Edgar F. Coney	KDHD	425 (705), 500 (600)
Edgar F. Luckenbach	WLCA	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)
Edgefield	KEBF	375 (800), 425 (705), 500 (600)
Edgehill	KETN	do.
Edgemont	KETP	do.
Edgemore	KEVF	do.
Edith	WKCD	do.
Editor	KOBG	do.
Edna	KIPT	do.
Edna Christenson	WEDV	do.
Edward L. Doheny	WPCP	375 (800), 400 (750), 425 (705), 469 (640), 500 (600)
Edward L. Shea	KFSE	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)
Edward Luckenbach	WLCB	375 (800), 425 (705), 500 (600)
Edward Pierce	KMOU	do.
Edwin Christenson	WCCG	do.
Eelbeck	KINQ	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,069), 149 (2,015), 151 (1,935), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 500 (600)
Effingham	KOLT	375 (800), 425 (705), 500 (600)
Effna	KOMT	do.
Eglantine	KOPT	do.
E. G. Mathiott	KFUB	375 (800), 410 (730), 425 (705)
Egremont	KOQS	375 (800), 425 (705), 500 (600)
E. J. Sadler	KGAC	375 (800), 400 (750), 425 (705), 469 (640), 500 (600)
El Alba	WICD	375 (800), 425 (705), 500 (600)
El Almirante	WICE	do.
El Capitan	WICF	do.
Do.	KILP	do.
El Cedro	WVOE	do.
El Cid	WICG	do.
El Coston	WICH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)
Eldena	KEVG	375 (800), 425 (705), 500 (600)
El Dia	WICI	do.

PG	N	do.	Do.
PG	X	Pacific Coast S. S. Co.	M. R. T. Co.
PG	X	Pacific Atlantic S. S. Co.	Owner.
PG	X	U. S. S. B.	
PG	N	Detroit & Cleveland Nav. Co.	R. C. A.
PG	X	High Seas Transportation Co.	R. M. C. A.
PG	X	Ford Motor Co.	R. C. A.
PG	X	U. S. S. B.	R. M. C. A.
PG	N	do.	Do.
PG	N	Panama Mail S. S. Co.	
PG	X	U. S. S. B.	Do.
PG	X	Philip Shore	Owner.
PG	X	Luckenbach S. S. Co.	R. M. C. A.
PG	X	U. S. S. B.	Do.
PG	X	do.	Do.
PG	X	do.	
PG	X	A. H. Bull S. S. Co.	Do.
PG	X	U. S. S. B.	Owner.
PG	X	Sudden & Christenson	Do.
PG	X	do.	R. M. C. A.
PG	X	Pan American Petroleum & Transp. Co.	Do.
PG	X	Tide Water Associated Transport Corp.	
PG	X	Luckenbach S. S. Co.	Do.
PG	X	Mystic S. S. Co.	Do.
PG	X	Christenson S. S. Co.	M. R. T. Co.
PG	X	U. S. S. B.	R. M. C. A.
PG	X	do.	
PG	X	do.	Do.
PG	X	do.	Do.
PG	X	do.	R. C. A.
PG	X	Valley Camp S. S. Co.	R. M. C. A.
PG	X	U. S. S. B.	Do.
PG	X	Standard Shipping Co.	Owner.
PG	X	Southern Pacific Co.	Do.
PG	X	do.	Do.
PG	X	do.	Do.
PG	X	E. K. Wood Lumber Co.	R. M. C. A.
PG	X	James Griffiths & Sons	Owner.
PG	X	Southern Pacific Co.	Do.
PG	X	do.	R. M. C. A.
PG	X	U. S. S. B.	Owner.
PG	X	Southern Pacific Co.	

RADIO STATIONS OF THE UNITED STATES

## COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Eldorado.....	KMOI	355 (800), 425 (705), 500 (600)	PG	X	Western Transport Co. Commander Richard E. Byrd	M. R. T. Co.
Eleanor Boling.....	WFAT	375 (800), 425 (705), 500 (600), 3,142 (9.548), 4,755 (63.11), 5,525 (54.3), 5,645 (53.14), 6,575 (45.62), 8,670 (34.60), 11,240 (26.57), 12,820 (23.40), 16,700 (17.964), 21,820 (13.749)	P	X		
Eleanor Christenson.....	KOTL	375 (800), 425 (705), 500 (600)	PG	X	Christenson S. S. Co. W. B. Bell	R. M. C. A. Do.
Elena.....	WSBE	125 (2,400), 137 (2,100), 141 (2,130), 143 (2,100), 145 (2,069), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X		
El Estero.....	WICJ	375 (800), 425 (705), 500 (600)	PG	X	Southern Pacific Co. Interisland Steam Nav. Co.	Owner. R. M. C. A.
Eleu.....	WJDH	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X		
Elia.....	KFNE	375 (800), 425 (705), 500 (600)	PG	X	George Whittell, jr. Pan American Petroleum & Transp. Co.	Owner. R. M. C. A.
Elisha Walker.....	KDQG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X		
El Isleo.....	WICK	375 (800), 425 (705), 500 (600)	PG	X	Southern Pacific Co. A. H. Bull S. S. Co.	Owner. R. M. C. A.
Elizabeth.....	KORC	do	PG	X		
Elkhorn.....	KOCL	135 (2,222), 137 (2,100), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	
El Lago.....	WICL	375 (800), 425 (705), 500 (600)	PG	X	Southern Pacific Co. A. H. Bull S. S. Co.	Owner. R. M. C. A.
Elleanor.....	KUGX	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X		
Elmore.....	KFPG	425 (705), 500 (600)	PG	X	American Tug Boat Co. U. S. S. B.	Owner. R. M. C. A.
Elmsport.....	KILF	375 (800), 425 (705), 500 (600)	PG	X		
El Mundo.....	WICM	do	PG	X	Southern Pacific Co. do	Owner. Do.
El Norte.....	WICN	do	PG	X		
El Occidente.....	WICP	do	PG	X	do	Do.
El Oceano.....	WICO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	Do.
Eloise.....	KPVT	8,330 (36.01), 8,570 (35.01)	P	X	John C. Piver	Do.
El Oriente.....	WICQ	375 (800), 425 (705), 500 (600)	PG	X	Southern Pacific Co.	Do.
El Paso.....	KFPE	429 (700), 500 (600)	P	X	Booth Fisheries Co.	Do.
El Salvador.....	KJEU	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Grace S. S. Co.	R. M. C. A.
El Segundo.....	WOCC	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California	Do.
El Siglo.....	WICR	375 (800), 425 (705), 500 (600)	PG	X	Southern Pacific Co.	Owner.
Elton Hoyt II.....	KGBO	375 (800), 410 (730), 425 (705)	PG	X	Stewart Furnace Co.	R. C. A.
El Valle.....	WICS	375 (800), 425 (705), 500 (600)	PG	X	Southern Pacific Co.	Owner.
Elwyn C. Hale.....	KZOA	do	PG	N	Alaska Salmon Co.	Do.
E. M. Clark.....	KGAB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.
Emergency Aid.....	KDKD	125 (2,400), 131 (2,200), 133 (2,256), 135 (2,222), 137 (2,150), 141 (2,130), 143 (2,100), 145 (2,070), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	
Emidio.....	KDTJ	125 (2,400), 137 (2,100), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 500 (600)	PG	X	Standard Transp. Co.	Do.
Emilia.....	KREA	425 (705), 500 (600)	PG	X	A. H. Bull S. S. Co. Pacific S. S. Co.	M. R. T. Co.
Emma Alexander.....	WGNC	125 (2,400), 143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	N		



## COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Express	KODV	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Export S. S. Corp.	R. M. C. A.
Extavia	KOSM	do.	PG	X	do.	Do.
Exton	WJAA	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
F. A. Bailey	WTBL	410 (730), 425 (705)	PG	X	Cleveland Cliffs S. S. Co.	Do.
Fabia	WCDC	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	John Chisholm Fisheries Co.	Do.
F. A. Douty	KFGE	375 (800), 426 (705), 500 (600)	PG	X	Matson Nav. Co.	Owner.
Fairfax	KGCE	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Merchants & Miners Transp'n. Co.	R. M. C. A.
Fairfield	WHDM	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Argonaut S. S. Co.	Do.
Fairfield City	KDPY	375 (800), 425 (705), 500 (600)	PG	X	U. S. Steel Products Co.	Do.
Faith	KGDQ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Courtland S. Brown	Do.
Falcon	KIND	do.	PG	X	Atlantic & Caribbean Steam Nav. Co.	Do.
Fan Kwai	KGCW	2,740 (109.5)	P	X	H. H. Rogers	Owner.
Farwest	WIDX	2,320 (129.3)	P	X	Farwest Fisheries, (Inc.)	Do.
Favorite	KIFG	375 (800), 394 (760), 410 (730), 425 (705), 5,525 (54.3), 5,615 (53.42), 8,330 (36.01)	PG	X	Great Lakes Towing Co.	R. C. A.
Do.	KDNY	500 (600)	P	X	Panama Canal	Owner.
Do.	WADP	do.	PG	X	U. S. S. B.	Do.
F. A. Warner	WMBO	375 (800), 425 (705), 500 (600)	PG	X	Coos Bay Lumber Co.	R. M. C. A.
Fayette Brown	WEDF	375 (800), 410 (730), 425 (705)	PG	X	Stewart Furnace Co.	R. C. A.
F. C. Latrobe	KDOL	425 (705), 500 (600)	PG	X	Bureau of Harbors, City of Baltimore.	Owner.
Federal	KDWW	375 (800), 425 (705), 500 (600)	PG	X	Petroleum Nav. Co.	R. M. C. A.
Do.	WDOO	do.	PG	X	U. S. S. B.	Do.
Felix Taussig	WJCR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Mystic S. S. Co.	Do.
Feltore	WQCF	do.	PG	X	Ore S. S. Corp.	Do.
Fernandez Hermanos	KZCY	500 (600)	PG	X	Compania Maritima	Owner.
F. Escano	KZES	do.	PG	X	La Naviera Filipina, (Inc.)	Do.
F. H. Hillman	KDVK	375 (800), 410 (730), 425 (705), 454 (640), 500 (600)	PG	X	Standard Oil Co. of California	R. M. C. A.
F. H. Wickert	WROO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transp'n. Co.	Do.
Fire Boat No. 31	KFPA	1,596 (187.9)	P	X	Boston Fire Department	Owner.
Fire Boat No. 44	KFPC	do.	P	X	do.	Do.
Fire Boat No. 47	KFPD	do.	P	X	do.	Do.
Firmore	WQCF	375 (800), 750 (400), 705 (425), 468 (660), 500 (600)	PG	X	Ore S. S. Corp.	R. M. C. A.
Fisher	KFCX	375 (800), 425 (705), 500 (600)	PG	X	Portland Trawling Co.	Do.
Fish Hawk	WKIA	do.	PG	X	Deep Sea Fisheries	Do.
F. J. Luckenbach	WLCC	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Luckenbach S. S. Co.	Do.
Florence D.	KZAY	500 (600)	PG	X	Cadwallader Gibson Lumber Co.	Owner.
Florence Luckenbach	WLCL	375 (800), 425 (705), 500 (600)	PG	X	Luckenbach S. S. Co.	R. M. C. A.



Florence Olson	WEDQ	do	PG	X	Oliver J. Olson & Co.	Owner.
Florida	KJH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Strachan's Southern S. S. Co.	R. M. C. A.
Flour Spar	KIQX	375 (800), 425 (705), 500 (600)	PG	X	South Atlantic S. S. Co.	Do.
Foam	KFUE	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Bay State Fishing Co.	Do.
Fontana	KFTW	375 (800), 410 (730), 425 (705)	PG	X	Progress S. S. Co.	Owner.
Forest King	KDBH	375 (800), 425 (705), 500 (600)	PG	X	Traders Transport Co.	R. M. C. A.
Fortuna	KDWU	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Richmond Talbot	Owner.
Do	KZDV	500 (600)	PG	X	Rio y Olabarrieta	Do.
Foss No. 21	KGAX	375 (800), 425 (705), 500 (600)	P	X	Foss Launch & Tug Co. (Inc.)	Do.
Four Winds	KGDU	375 (800), 425 (705), 468 (640), 500 (600), 5,525 (54.3), 8,290 (36.19), 11,050 (27.15), 13,240 (22.66), 16,580 (18.044), 16,860 (17.794)	P	X	Stanley G. Harris.	Do.
F. Q. Barstow	△ WOCN	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.
Francis E. Powell	△ KFIG	375 (800), 425 (705), 500 (600)	PG	X	Atlantic Refining Co.	Do.
Frank Billines	△ KDXM	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.	Owner.
Frank G. Drun	△ KDQZ	375 (800), 425 (705), 500 (600)	PG	X	Associated Oil Co.	M. R. T. Co.
Frank H. Buck	△ WQCQ	125 (2,400), 143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Frank H. Goodyear	△ KPEG	375 (800), 410 (730), 425 (705)	PG	X	American S. S. Co.	Owner.
Franklin	△ KDPK	375 (800), 410 (730), 425 (705), 454 (600), 500 (600)	PG	X	Texas Co.	R. M. C. A.
Franklin K. Lane	△ KDLH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.	Do.
Frank Lynch	KLIU	375 (800), 425 (705), 500 (600)	PG	X	W. J. Gray, Jr.	Do.
Frank Seither	KFTS	375 (800), 410 (730), 425 (705)	PG	X	Becker S. S. Co.	Do.
Frederic Ewing	△ WPCD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.	Do.
Frederick C.	WRBR	2,320 (129.3)	P	X	Nakat Packing Corp.	Owner.
Frederic R. Kellogg	△ WPCE	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.	R. M. C. A.
Fred W. Green	WNAI	394 (760), 410 (730), 425 (705), 5,525 (54.3), 5,555 (54), 5,615 (53.42), 8,330 (36.01)	PG	X	Northwestern Sand and Gravel Co.	Mackinac Radio Service.
Fred W. Weller	△ WOCO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.
Freeman	△ WBCI	do	PG	X	Peachontas S. S. Co.	Do.
Freeport Sulphur No. 2	WHICV	375 (800), 425 (705), 500 (600)	PG	X	Freeport Sulphur Transpn. Co.	Do.
Freeport Sulphur No. 5	KUMX	375 (800), 400 (750), 425 (705)	PG	X	do	Do.
Freeport Sulphur No. 6	KUNP	do	PG	X	do	Owner.
Frieda	WQCT	375 (800), 425 (705), 500 (600)	PG	X	Union Sulphur Co.	Owner.
Frontenac	KFLJ	375 (800), 410 (730), 425 (705)	PG	X	Cleveland Cliffs S. S. Co.	Do.
Gale	WTBB	375 (800), 400 (750), 425 (705)	PG	X	Bay State Fishing Co.	R. M. C. A.
Galena	△ KODR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Texas Co.	Do.
Gallivant	KFWJ	500 (600), 2,727 (110)	P	X	Chester Kennison	Owner.
Galveston	KDQE	500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Garkoyle	△ KDPE	375 (800), 400 (750), 425 (705)	PG	X	Vacuum Oil Co.	Do.
Garnet Hillings	KUZQ	375 (800), 425 (705), 500 (600)	PG	X	Gladstone Transpn. Co.	Do.
Gar, Sr.	WHDD	2590 (115.8)	P	X	Gar Wood	Owner.
Gar, Sr., II	WOBN	2727 (109)	P	X	do	Do.
Gateway City	KDFD	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
G. A. Tomlinson	△ KDXJ	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.	Do.
Gemma	WTBW	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	John Chisholm Vessels Co.	Do.
Gene Crawley	WHICW	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sinclair Nav. Co.	Do.
General Ashburn	WOBL	273 (1,100), 8,060 (37.22)	P	X	Inland Waterways Corp.	Owner.
General Markham	WFDP	375 (800), 410 (730), 425 (705), 454 (600), 500 (600)	PG	X	Gladstone Transpn. Co.	M. R. T. Co.



COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
General M. H. Sherman	KDFT	143 (2,100), 151 (1,985), 160 (1,875) 375 (800), 425 (705), 500 (600)	PG	X	Los Angeles S. S. Co	M. R. T. Co.
General W. C. Gorgas	WQCZ	375 (800), 425 (705), 500 (600)	PG	N, X	Libby, McNeill & Libby	Owner.
Genevieve Lykes	KITP	do	PG	X	Lykes Bros. S. S. Co	R. M. C. A.
George C. Greer	KOQL	do	PG	X	Magnolia Petroleum Co.	Owner.
George F. Rand	△ KFCT	375 (800), 410 (730), 425 (705)	PG	X	American S. S. Co	Do.
Geo. H. Jones	△ KIPS	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co	R. M. C. A.
George G. Henry	△ WPCF	do	PG	X	Pan American Petroleum & Trans- port Co.	Do.
George H. Ingalls	KFTO	410 (730), 425 (705)	PG	X	Eastern S. S. Corp.	Owner.
George L. Olsen	KFGU	375 (800), 425 (705), 500 (600)	PG	X	Oliver J. Olson & Co.	Do.
George Peirce	KDLT	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	
Georgetown	WTRH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Trawler Georgetown (Inc.)	R. M. C. A.
George Washington	△ KDCL	131 (2,290), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 325 (705), 500 (600)	PG	N	United States Lines	Do.
Do	△ WECJ	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	P G	N	Eastern S. S. Lines (Inc.)	Do.
George W. Barnes	△ KMUI	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Trans- port Co.	Do.
George W. Mead	△ WJDD	375 (800), 394 (760), 410 (730), 425 (705)	PG	X	Newaygo Tug Line	R. C. A.
Georgian	KJUA	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Strachan's Southern S. S. Co	R. M. C. A.
Do	△ KUDL	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Williams S. S. Corp.	
Do	△ WACF	do	PG	X	Pacific Atlantic S. S. Co	Owner.
G. J. Grammer	KFSM	410 (730), 425 (705)	PG	X	Grammer S. S. Co	Do.
Glacier	KPTR	375 (800), 425 (705), 500 (600)	PG	N, X	Northern Fisheries (Inc.)	Do.
Glaysds	WSBD	8,230 (36.45), 8,450 (35.5)	P	X	Francis W. Payne	Do.
Gladysbe	KDEV	375 (800), 425 (705), 500 (600)	PG	X	T. P. Gallagher & Co.	R. M. C. A.
Glendoyle	KFAO	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Leonard C. Hammond	Do.
Glennpool	△ WQCP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co	Do.
Glen White	KSIE	375 (800), 425 (705), 500 (600)	PG	X	Mystic S. S. Co.	Do.
Gloucester	WMCT	do	PG	N	Merchants & Mines Transpn. Co	Do.
Do	KFYQ	do	P	X	Marine Products (Inc.)	Owner.
Glymont	KEXZ	do	PG	X	Charles Nelson Co	R. M. C. A.
G. N. Wilson	KDVS	410 (730), 425 (705)	PG	X	American S. S. Co	Owner.
Golden Bear	KEXX	375 (800), 425 (705), 500 (600)	PG	X	Oceanic & Oriental Nav. Co.	Do.
Golden Cloud	WSOI	do	PG	X	do	Do.
Golden Coast	KUQJ	do	PG	X	do	Do.
Golden Cross	KEBQ	do	PG	X	do	Do.
Golden Dragon	KDVH	125 (2,400), 143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Golden Eagle	KIFP	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Golden Fleece	KODT	do	PG	X	do	Do.

Golden Forest	KEXJ	125 (2,400), 143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705) 500 (600)	PG	X	do	Do.
Golden Harvest	KUMM	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Golden Hind	KDSX	125 (2,400), 143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Golden Horn	KOKP	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Golden Kauri	KELK	do	PG	X	do	Do.
Golden Mountain	KUBK	do	cPG	X	do	Do.
Golden Peak	KOTD	do	PG	X	do	Do.
Golden Rod	KIKX	do	PG	X	do	Do.
Golden Star	KISG	do	PG	X	do	Do.
Golden State	KDFW	125 (2,400), 137 (2,190), 143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Golden Sun	KDUK	do	PG	X	do	Do.
Golden Tide	KOMV	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Golden Wall	KUBL	do	PG	X	do	Do.
Golden West	KOZS	do	PG	X	do	Do.
Goliah	KFDI	500 (600), 425 (705), 375 (800)	PG	X	do	Do.
Do	WTBP	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Goodtime	WTCU	375 (800), 410 (730), 425 (705)	PG	X	do	Do.
Good Will	KFGJ	375 (800), 425 (705), 500 (600), 394 (750), 410 (730)	PG	X	do	Do.
Gorgona	KDNZ	375 (800), 425 (705), 500 (600)	P	N	do	Do.
Governor Cobb	WHCX	do	PG	X	do	Do.
Governor Dingley	WECE	do	PG	X	do	Do.
Governor John Lind	WREU	do	PG	X	do	Do.
Grand Island	△ KFNA	375 (800), 410 (730), 425 (705)	PG	X	do	Do.
Grays Harbor	KILJ	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Greater Buffalo	△ WSBH	375 (800), 394 (760), 410 (730), 143 (2,100), 157 (1,910), 425 (705)	PG	X	do	Do.
Greater Detroit	△ WSBI	375 (800), 394 (760), 410 (730)	PG	X	do	Do.
Greician	WMCU	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	do	Do.
Greylock	KDTV	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 454 (660), 500 (600)	PG	X	do	Do.
Guardian	WBDP	375 (800), 425 (705), 500 (600)	P	X	do	Do.
Guatemala	△ WADT	375 (800), 400 (750), 425 (705), 408 (640), 500 (600)	PG	X	do	Do.
Guayaquil	KEKN	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Guinevere	KDUP	375 (800), 400 (750), 500 (600)	P	X	do	Do.
Gulfbird	△ WRBF	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,069), 149 (2,015), 151 (1,985), 154 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 469 (640), 500 (600)	PG	X	do	Do.
Gulfbreeze	KFDW	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Gulfcoast	WJCC	do	PG	X	do	Do.
Gulfbreeze	KFZY	375 (800), 400 (750), 426 (705), 468 (640), 500 (600)	PG	X	do	Do.
Gulfgem	KDAD	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Gulfbawk	△ WJCO	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	Do.
Gulfling	KDNO	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (641), 500 (600)	PG	X	do	Do.
Gulfland	WJCD	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Gulflight	WJCE	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do	Do.
Gulfrmaid	WJCF	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Gulf of Mexico	WJCB	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Gulf of Venezuela	KOZM	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do	Do.
Gulfoil	WJCG	do	PG	X	do	Do.
					Wood Towing Corp.	R. M. C. A. Owner.
					Cary Davis Tug & Barge Co.	R. M. C. A. Owner.
					Cleveland & Buffalo Transit Co.	R. M. C. A. Owner.
					Keith Spalding	R. M. C. A. Owner.
					Panama Canal	R. M. C. A. Do.
					Peninsular & Occidental S. S. Co.	R. M. C. A. Do.
					Eastern S. S. Lines (Inc.)	Do.
					Baltimore Insular Line	Do.
					Cleveland Cliffs S. S. Co.	Owner.
					Tacoma Oriental S. S. Co.	R. C. A. Do.
					Detroit & Cleveland Nav. Co.	Do.
					do	Do.
					Merchants & Miners Transportn. Co.	R. M. C. A. Do.
					Greylock S. S. Corp.	Do.
					All America Cable Co.	Owner.
					Grace S. S. Co.	R. M. C. A. Do.
					Panama R. R.	Do.
					Edgar Palmer	Owner.
					Gulf Refining Co.	R. M. C. A. Do.

RADIO STATIONS OF THE UNITED STATES

COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Gulfpenn	KDRX	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Gulf Refining Co.	R. M. C. A.
Gulfpoint	KUPF	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Gulfport	KFMD	273 (1,100)	P	X	Inland Waterways Corp.	Owner.
Gulfpride	△ KGEJ	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Gulf Refining Co.	R. M. C. A.
Gulfprince	KDRB	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do.	Do.
Gulfqueen	WJCH	do.	PG	X	do.	Do.
Gulf Refining Company (general call for all vessels).	KFXX				do.	
Gulfstar	KDEB	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do.	Do.
Gulfstate	KDFQ	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 500 (600)	PG	X	do.	Do.
Gulfstream	WJCI	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do.	Do.
Gulftrade	KOVV	do.	PG	X	do.	Do.
Gulfwax	KDUQ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do.	Do.
Gulfwing	△ WJCP	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do.	Do.
Gypsy	WTBJ	500 (600)	P	X	C. R. Holmes	Owner.
Hadnot	KOGP	375 (500), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Cities Service Transpn. Co.	R. M. C. A.
Hagood	KOQD	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Hahira	KUZC	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Atlantic Refining Co.	Do.
Haiti	KUFK	375 (800), 425 (705), 500 (600)	PG	X	Ocean Dominion S. S. Corp.	Do.
Halcyon	WHDZ	2740 (109.3)	P	X	E. V. Rideout Co.	Owner.
Haleakala	KFEU	375 (800), 425 (705), 500 (600)	P	X	Interisland Steam Nav. Co.	Do.
Haligonian	KGAW	4,188 (71.66), 8, 670 (34.6)	PG	X	Houston Wall	Do.
Halo	KDCP	125 (2,400), 131 (2,290), 135 (2,222), 137 (2,190), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Cities Service Transpn. Co.	R. M. C. A.
Halsey	KDDR	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	Malston Co.	Do.
Hamilton	WECK	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Eastern S. S. Lines (Inc.)	Do.
Hamlin F. McCormick	KESD	375 (800), 425 (705), 500 (600)	PG	X	Chas. R. McCormick Lumber Co.	Owner.
Hampton Roads	KESR	125 (2,400), 141 (2,130), 143 (2,100), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Oil Transport Co.	R. M. C. A.
Do.	KOJT	426 (705), 500 (600)	PG	X	Philadelphia & Norfolk S. S. Co.	Owner.
Hanley	△ KDIF	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Hanley S. S. Co.	R. M. C. A.
Hanover	KOJK	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	
Happy Days	WMBN	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	I. C. Copley	Do.
Harbor	WIDB	2,596 (115.56)	P	X	Harbor Tug & Barge Co.	Owner.
Harold J. Taggart	WTBR				Philadelphia & Reading Ry. Co.	

Harold Walker	△ WPCG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)
Harry Coulby	△ WPBF	375 (800), 410 (730), 425 (705)
Harry Farnum	△ WHCU	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)
Harry Luckenbach	△ KIGS	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)
Harry W. Croft	△ WEDD	375 (800), 410 (730), 425 (705)
Harry Yates	△ KDUB	do.
Hartford	△ KEVR	375 (800), 425 (705), 500 (600)
Harvard	△ WSCR	do.
Do.	△ WTBY	375 (800), 400 (750), 425 (705), 500 (600)
Harvester	△ KDHC	375 (800), 425 (705), 500 (600)
Harvey E. Brown	△ WEDA	375 (800), 410 (730), 425 (705)
Hastings	△ KDDL	375 (800), 425 (705), 500 (600)
Hatteras	△ WDDF	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)
Habana	△ WQBI	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600)
Hawaiian	△ WACG	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)
Hawaiian Standard	△ WOOD	375 (800), 425 (705), 500 (600)
Hazel Rohh.	△ WIDR	2,320 (129.3)
H. C. Cadmus	△ WQBL	375 (800), 425 (705), 500 (600)
H. C. Folger	△ WFCW	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)
Heber	△ KDDU	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)
Heffron	△ WBAI	do.
Hegira	△ KIDF	do.
Heigh-Ho	△ WPBX	375 (800), 425 (705), 500 (600)
Helen	△ WKCF	8,230 (36.45), 8,570 (35.01)
Do.	△ WHDX	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)
Helen Whittier	△ KJAO	375 (800), 425 (705), 500 (600)
Henry D. Whitton	△ KDRM	375 (800), 394 (760), 410 (730), 425 (705)
Henry Ford II	△ KFTD	375 (800), 410 (730), 425 (705)
Henry G. Dalton	△ KGAF	375 (800), 425 (705), 500 (600)
Henry M. Flagler	△ WCCK	375 (800), 410 (730), 425 (705)
Henry P. Werner	△ KFTN	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)
Henry R. Mallory	△ WHCF	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 500 (600)
Henry S. Grove	△ KDLN	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)
Herbert G. Wylie	△ WTBK	do.
Herbert L. Pratt	△ WFCX	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 460 (640), 500 (600), 3,428 (87.51), 5,525 (54.3), 8,490 (35.34), 11,230 (28.71)
Heredia	△ KDAH	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)
Herman Falk	△ KDPQ	375 (800), 425 (705), 500 (600)
Herman Frasc	△ KDLW	do.
Heron	△ KUDF	125 (2,400), 143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)
H. F. Alexander	△ WGCO	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 469 (640), 500 (600)
H. H. Rogers	△ WOCQ	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 469 (640), 500 (600)
Hies-Mar	△ WDY	375 (800), 425 (705), 500 (600)
Higho	△ KUBV	375 (800), 425 (705), 500 (600)

PG	X	Pan American Petroleum & Trans-	R. M. C. A.
		port Co.	
PG	X	Interlake S. S. Co.	R. C. A.
PG	X	Sinclair Nav. Co.	R. M. C. A.
PG	X	Luckenbach S. S. Co.	Do.
PG	X	Stewart Furnace Co.	R. C. A.
PG	X	American S. S. Co.	Owner.
PG	X	Hart-Wood Lumber Co.	Do.
PG	X	Los Angeles S. S. Co.	M. R. T. Co.
PG	N	Whitman, Ward & Lee Co.	R. M. C. A.
PG	X	Texas Co.	Do.
PG	X	Stewart Furnace Co.	R. C. A.
PG	X	U. S. S. B.	R. M. C. A.
PG	X	do.	Do.
PG	N	Atlantic Gulf & West Indies S. S. Lines.	Do.
PG	X	American-Hawaiian S. S. Co.	Owner.
P	X	Standard Oil Co. of California	R. M. C. A.
P	X	Nakat Packing Corp.	Owner.
PG	X	New Orleans Coal & Bisso Towboat Co.	R. M. C. A.
PG	X	Atlantic Refining Co.	Do.
PG	X	Los Angeles S. S. Co.	M. R. T. Co.
PG	X	Heffron S. S. Co.	R. M. C. A.
PG	X	Hegira S. S. Co.	Do.
		A. E. Walbridge	Do.
PG	X	A. H. Bull S. S. Co.	Owner.
P	X	John J. Matheson	R. M. C. A.
P	X	Los Angeles S. S. Co.	Owner.
PG	X	Union Sulphur Co.	R. C. A.
		Ford Motor Co.	Do.
PG	X	Interlake S. S. Co.	R. M. C. A.
PG	X	Florida East Coast Car Ferry Co.	Owner.
PG	X	Eastern S. S. Corp.	R. M. C. A.
PG	N	Mallory S. S. Co.	Do.
PG	N	Nautilus S. S. Corp.	Do.
PG	X	Pan American Petroleum & Trans-	Do.
		port Co.	
PG	X	Atlantic Refining Co.	Do.
PG	N	United Fruit S. S. Corp.	T. R. T. Co.
PG	X	Oil Transport Co.	R. M. C. A.
PG	X	Union Sulphur Co.	Owner.
PG	X	Portland Trawling Co.	R. M. C. A.
PG	N	Pacific S. S. Co.	M. R. T. Co.
PG	X	Standard Shipping Co.	R. M. C. A.
		H. E. Manville	Do.
PG	X	U. S. S. B.	Do.



COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Hilda.....	△ KGCK	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Charles Boldt	M. R. T. Co.
Hilton.....	WCKG	do.	PG	X	A. H. Bull S. S. Co.	R. M. C. A.
H. M. Flagler.....	△ WOCR	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Standard Shipping Co.	Do.
H. M. Storey.....	△ KDVV	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California	Do.
Hollywood.....	KDCS	375 (800), 425 (705), 500 (600)	PG	X	Pacific Argentine Brazil Line	Do.
Holy Cross.....	WTBI	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Atlantic & Pacific Fish Co.	Do.
Homar.....	KUMG	375 (800), 400 (750), 410 (730), 454 (660), 500 (600)	PG	X	Merritt Chapman & Scott Corp.	Do.
Horace Luckenbach.....	△ KULK	375 (800), 425 (705), 500 (600)	PG	X	Luckenbach S. S. Co.	Do.
Horace X. Baxter.....	WDDG	do.	PG	X	Horace X. Baxter S. S. Co.	Owner.
Howard.....	WMCV	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Merchants & Miners Transportn. Co.	R. M. C. A.
Howick Hall.....	WDCX	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	U. S. Steel Products Co.	Do.
Hoxbar.....	KIJQ	375 (800), 425 (705), 500 (600)	PG	X	Malston Co.	Do.
Hoxie.....	KEMK	do.	PG	X	U. S. S. B.	Do.
H. T. Harper.....	△ KDVM	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California	Do.
Hualalai.....	WJDT	do.	PG	X	Inter Island Steam Nav. Co.	Do.
Hugh Kennedy.....	△ KFCE	410 (730), 425 (705)	PG	X	American S. S. Co.	Owner.
Hugoton.....	KIQR	375 (800), 425 (705), 500 (600)	PG	X	Malston Co.	R. M. C. A.
Huguenot.....	KIVQ	do.	PG	X	Huguenot S. S. Corp.	Do.
Hulver.....	KIGD	do.	PG	X	Mobile Towing & Wrecking Co.	Owner.
Humaconna.....	KIGC	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	Merrill & Ring Lumber Co.	Do.
Humboldt.....	WBDZ	375 (800), 425 (705), 500 (600)	PG	N	Los Angeles-San Francisco Nav. Co.	R. C. A.
Humrick.....	KIFN	375 (800), 410 (730), 425 (705), 500 (600)	PG	N	Ford Motor Co.	Owner.
Huron.....	△ WBCC	143 (2,100), 159 (1,585), 394 (760), 410 (730), 425 (705)	P	X	Wyandotte Transportation Co.	R. M. C. A.
Do.....	WADQ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Clyde S. S. Co.	Do.
Hussar.....	KFZY	375 (800), 425 (705), 500 (600)	PG	X	E. F. Hutton	Do.
H. W. Baxter.....	WMAE	do.	PG	X	Horace X. Baxter S. S. Co.	Owner.
Hyades.....	WCDY	do.	PG	X	Red Salmon Canning Co.	Do.
Hybert.....	KDCA	do.	PG	X	U. S. S. B.	R. M. C. A.
I. C. White.....	△ KDDB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transportation Co.	Do.
Idalia.....	KFVM	500 (600), 3,436 (87.3), 4,148 (72.3), 6,275 (47.81), 12,820 (23.4)	P	X	Painless Parker	Owner.
Ida Mae.....	WJDI	2,320 (129.3)	P	X	Farwest Fisheries (Inc.)	Do.
Idler.....	WHDW	5,525 (54.3), 5,555 (54)	P	X	A. R. Piegler	Do.
I. J. Merritt.....	KOVZ	375 (800), 425 (705), 500 (600)	PG	X	Merritt Chapman & Scott Corp.	R. M. C. A.
Illinois.....	△ KDSZ	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 159 (1,885), 375 (800), 500 (600).	PG	X	Texas Co.	Do.
Do.....	KFMC	273 (1,100)	P	X	Inland Waterways Corp.	Owner.
Do.....	KUQM	375 (800), 425 (705), 500 (600)	PG	X	States S. S. Co.	Do.
Do.....	△ WPCY	375 (800), 410 (730), 425 (705)	PG	N, X	Goodrich Transit Co.	R. C. A.



Illyria	WQBU	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 455 (660), 468 (640), 500 (600). 375 (800), 425 (705), 500 (600)	PG	X	Cornelius Crane	R. M. C. A.
Imlay	KIZV	do.	PG	X	Malston Co.	Do.
Independence	WJIO	do.	PG	X	U. S. S. B.	Do.
Independence Hall	KDCG	do.	PG	X	do.	Do.
India Arrow	KDRP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transportation Co.	R. C. A.
Indiana	WPCZ	375 (800), 410 (730), 425 (705)	PG	X	Goodrich Transit Co.	R. M. C. A.
Inanoko	KITJ	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	
Interlake S. S. Co. (general call for all vessels)	WPAA				Interlake S. S. Co.	
International	KITQ	375, (800), 425 (705), 500 (600)	PG	N	International Packing Co.	Do.
Intrepid	KDHI	125 (2,400), 143 (2,100), 151 (1,985), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 500 (600).	PG	X	Transportation Products Co.	
Invincible	WCHH	125 (2,400), 131 (2,290), 133 (2,255), 135 (2,220), 137 (2,190), 139 (2,160), 141 (2,130), 143 (2,100), 145 (2,070), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).	PG	X	U. S. S. B.	
Iolanda	WOBP	375 (800), 425 (705), 500 (600)	PG	N	Edith Bishop Taylor	Marconi International Marine Communication Co. Owner.
Iolanthe	KGGL	2,311 (129.8), 4,312 (69.56), 8,625 (34.78)	P	X	John S. Phipps	Do.
Iowa	KFLT	273 (1,100)	P	X	Inland Waterways Corp	Do.
Do.	KUDK	375 (800), 425 (705), 500 (600)	PG	X	States S. S. Co.	Do.
Iowan	WACH	do.	PG	X	American Hawaiian S. S. Co.	R. M. C. A.
Ipswich	KILN	do.	PG	X	Lancaster S. S. Corp	Do.
Irene	KOKT	do.	PG	X	A. H. Bull S. S. Co.	Owner.
Do.	WQBE	do.	P	X	American Tow Boat Co.	Do.
Irene L.	WGDD	2,265 (132.4), 5,600 (53.57)	PG	N	Crosby Fisheries	R. M. C. A.
Iroquois	KGFD	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600). 375 (800), 425 (705), 500 (600)	PG	N	New York & Miami S. S. Co	Do.
Do.	KGGY	375 (800), 425 (705), 500 (600)	PG	X	do.	Owner.
Isaac T. Mann	WBCJ	do.	PG	X	Bellingham Barge & Tug Co.	R. M. C. A.
Ishpeming	KFLL	375 (800), 410 (730), 425 (705)	PG	X	Pocahontas S. S. Co	Do.
Isidoro Pons	KZDT	500 (600)	PG	X	Cleveland Cliffs S. S. Co.	Owner.
Islas Filipinas	KZBX	do.	PG	X	Compania General de Tabacos de Filipinas.	Do.
Islas Visayas	KZEV	425 (705), 500 (600)	PG	X	Compania Maritima	Do.
Isthmian S. S. Co. (general call for all vessels)	KFWW				Cebu Navigation Co.	
Jacox	KEML	375 (800), 425 (705), 500 (600)	PG	X	Charles Nelson Co.	Do.
Jadden	KORM	do.	PG	X	U. S. S. B.	R. M. C. A.
Jalapa	KDCW	125 (2,400), 131 (2,290), 137 (2,190), 141 (2,100), 143 (2,100), 149 (2,015), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600).	PG	X	do.	Do.
James E. Ferris	KDXK	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.	Do.
James Ellwood Jones	KESA	375 (800), 425 (705), 500 (600)	PG	X	Pocahontas S. S. Co.	Do.
James Griffiths	KUTK	do.	PG	X	Coastwise S. S. & Barge Co.	
James MacNaughton	KFCN	375 (800), 410 (730), 425 (705)	PG	X	Wilson Transit Co.	Do.
James McGee	WOCT	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	
James P. Walsh	KDXW	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.	

RADIO STATIONS OF THE UNITED STATES

COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
J. A. Moffett.....△	WOCl	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California	R. M. C. A.
J. A. Moffet, jr.....△	KDTU	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	Do.
Jane Christenson.....	KDJH	375 (800), 425 (705), 500 (600)	PG	X	Christenson S. S. Co.	Do.
Jane Nettleton.....	KDSD	do.	PG	X	Andrew F. Mahony	M. R. T. Co.
Japan Arrow.....△	KDHO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transp. Co.	R. M. C. A.
Java Arrow.....△	KDHQ	do.	PG	X	do.	Do.
J. C. Donnell.....	WFCY	do.	PG	X	Atlantic Refining Co.	Do.
J. C. Fitzsimmons.....△	WOCE	375 (800), 425 (705), 500 (600)	PG	X	Standard Oil Co. of California	M. R. T. Co.
Jean.....	WKCK	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	A. H. Bull S. S. Co.	Owner.
		454 (660), 500 (600)	PG	X	do.	Do.
Jeanette E.....	KGJK	2,320 (129.3)	P	X	do.	Do.
Jeanette Skinner.....	WEDM	375 (800), 425 (705), 500 (600)	PG	X	Alaska Pacific Salmon Corp.	Do.
Jeff Davis.....	KDQF	125 (2,400), 142 (2,100), 151 (1,985), 159 (1,885), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B	R. M. C. A.
		500 (600)	PG	X	do.	Do.
Jefferson.....	WECL	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Eastern S. S. Lines, (Inc.)	Do.
Jefferson Myers.....	KDFR	125 (2,400), 137 (2,190), 143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600)	PG	X	Steamship Jefferson Myers, (Inc.)	Owner.
J. E. O'Neil.....	WFCZ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Atlantic Refining Co.	R. M. C. A.
J. E. Savage.....△	KFNU	375 (800), 410 (730), 425 (705)	PG	X	Morrow S. S. Co.	R. C. A.
Jessie Fay.....	KFTH				Hollywood Boat & Transp. Co.	
Jezebel.....	KGDT	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Thomas L. Chadbourne	R. M. C. A.
J. Fletcher Farrell.....	KDHR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sinclair Navigation Co.	Do.
J. H. Sheadle.....△	KKUI	375 (800), 410 (730), 425 (705)	PG	X	Cleveland Cliffs S. S. Co.	Owner.
Jitney.....	WJDA	143 (2,100), 151 (1,985), 375 (800), 468 (640), 500 (600), 2,320 (129.3)	PG	X	Farwest Fisheries, (Inc.)	
J. J. Sullivan.....△	KDXV	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.	
J. L. Luckenbach.....△	KEXQ	375 (800), 425 (705), 500 (600)	PG	X	Luckenbach S. S. Co.	R. M. C. A.
J. L. Reiss.....△	KURJ	375 (800), 410 (730), 425 (705)	PG	X	Reiss S. S. Co.	Owner.
J. M. Danziger.....△	WPCI	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.	R. M. C. A.
J. N. Pew.....	KDTP	do.	PG	X	Sun Oil Co.	Do.
John A. Donaldson.....	KFTT	375 (800), 410 (730), 425 (705)	PG	X	Becker S. S. Co.	
John A. Kling.....△	KFEI	do.	PG	X	Rockport S. S. Co.	Owner.
John Anderson.....△	WDDZ	do.	PG	X	Morrow S. S. Co.	R. C. A.
John A. Topping.....△	KFXG	do.	PG	X	Columbia S. S. Co.	Do.
John C. Kirkpatrick.....	KDQR	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Andrew F. Mahony	M. R. T. Co.
John Cudahy.....	KFWG	375 (800), 425 (705), 500 (600)	P	X	Hubble Towing Co.	Owner.
John D. Archbold.....△	KDUM	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.
John F. Cushing.....	WGDV	375 (800), 410 (730), 425 (705)	PG	X	Great Lakes Dredge & Dock Co.	Do.
John G. Munson.....△	KFSI	410 (730), 425 (705)	PG	X	Bradley Transp. Co.	Owner.

John J. Boland.....	KDWB	375 (800), 410 (730), 425 (705)	PG	X	American S. S. Co.	Do.
John Kendall.....	WJDP	1,596 (18,797)	P	X	City of Detroit	Do.
John McCartney Ken- nedey.....	WDDN	375 (800), 410 (730), 425 (705)	PG	X	Valley Camp S. S. Co.	R. C. A.
John N. Stewart.....	KGBJ	2,740 (109.5)	P	X	Wilmington Transpn. Co	Owner.
John P. Reiss.....	KUTM	375 (800), 410 (730), 425 (705)	PG	X	Reiss S. S. Co.	Do.
John R. Williams.....	KGAU	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Great Lakes Dredge & Dock Co	R. M. C. A.
John S. Manuel.....	KDXL	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.	Do.
John Stanton.....	KDXT	do.	PG	X	do.	Owner.
John W. Boardman.....	KFMN	189 (1,587), 394 (760), 425 (705)	P	X	Huron Transpn. Co	Owner.
John Worthington.....	KDMN	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co	R. M. C. A.
John W. Weeks.....	WRBN	273 (1,100)	P	X	Upper Mississippi River Barge Line	Owner.
Jolee.....	KUVT	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B	R. M. C. A.
Jolo.....	KZDL	396.8 (755), 500 (600)	PG	X	Compania Maritima	Owner.
Jomar.....	KUGT	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B	R. M. C. A.
Jonancy.....	KSEU	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pocahontas S. S. Co	Do.
Josefina.....	KZDK	500 (600)	PG	X	Vicente Madrigal	Owner.
Joseph D. Wood.....	KFIH	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Wood Towing Corp	Do.
Joseph G. Butler, Jr.....	KDXU	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co	Do.
Joseph H. Frantz.....	WIDF	do.	PG	X	Columbia S. S. Co	R. C. A.
Josephine.....	KFZS	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Uzal H. McCarter	R. M. C. A.
Joseph M. Cudahy.....	KDMT	do.	PG	X	Sinclair Nav. Co.	Do.
Joseph R. Parrott.....	WCCJ	375 (800), 425 (705), 500 (600)	PG	X	Florida East Coast Car Ferry Co.	Do.
Joseph Seed.....	KDJV	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	Do.
J. R. Gordon.....	KOML	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Union Sulphur Co.	Owner.
Julia Luckenbach.....	WLCD	375 (800), 425 (705), 500 (600)	PG	X	Luckenbach S. S. Co.	R. M. C. A.
Juniata.....	WNCW	375 (800), 410 (730), 425 (705), 454 (640), 500 (600)	PG	N	Merchants & Miners Transpn. Co.	Do.
Do.....	WADM	375 (800), 410 (730), 425 (705)	PG	N	Great Lakes Transit Corp.	Do.
J. W. Van Dykes.....	KVIU	375 (800), 425 (705), 500 (600)	PG	X	Atlantic Refining Co.	Do.
Kadiak.....	KFSC	do.	PG	X	Alaska Packers Assn.	Owner.
Kaimiolo.....	KFIH	425 (705), 500 (600), 3,750 (80), 7,500 (38), 8,571 (35)	PG	X	Elizabeth L. Kellum	Do.
Kanak.....	WQCW	375 (800), 425 (705), 500 (600)	PG	X	Alaska Packers Assn.	Do.
Kansan.....	WACI	do.	PG	X	American Hawaiian S. S. Co.	Do.
Karluk.....	WGDK	do.	P	X	George G. Williams	Do.
Katherine.....	WNBN	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600), 2,320 (129.3)	P	X	Peter H. McCue	Do.
Katrina Luckenbach.....	WLCF	375 (800), 425 (705), 500 (600)	PG	X	Luckenbach S. S. Co.	R. M. C. A.
Kearny.....	KOPR	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	U. S. S. B	Do.
Kekoskee.....	KDGY	375 (800), 425 (705), 500 (600)	PG	X	Richfield Oil Co.	Do.
Kentuckian.....	WACJ	375 (800), 410 (730), 425 (705), 455 (660), 500 (600)	PG	X	American Hawaiian S. S. Co	Owner.
Kentucky.....	KDQI	125 (2,400), 137 (2,190), 143 (2,100), 375 (800), 425 (705), 500 (600)	PG	X	States S. S. Co.	Do.
Kerhonkson.....	KUJF	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B	R. M. C. A.
Kewanee.....	KIVC	do.	PG	X	Associated Oil Co.	M. R. T. Co.
Keystone.....	WQBY	375 (800), 394 (760), 410 (730), 425 (705)	PG	X	Cleveland, Canada Nav. Co.	Do.
K. I. Luckenbach.....	WLCE	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Luckenbach S. S. Co.	R. M. C. A.
Kingfisher.....	KOQR	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Portland Trawling Co.	Do.
Kishacoquillas.....	KIFJ	375 (800), 425 (705), 500 (600)	PG	X	Steamer Kishacoquillas Corp.	Do.
Kiska.....	WIDE	2,320 (129.3)	P	X	Booth Fisheries Co.	Owner.
Knoxville City.....	KDUD	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	U. S. Steel Products Co.	R. M. C. A.
Koyola.....	WKDO	do.	P	X	George F. Briffett	Owner.
K. R. Kingsbury.....	KDRE	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 133 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California.	R. M. C. A.

## COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account set- tled by—
Kvichak	WQCP	375 (800), 425 (705), 500 (600)	PG	X	Alaska Packers Assn.	Owner.
Labette	KIZK	do.	PG	X	U. S. S. B.	R. M. C. A.
La Brea	WFDM	143 (2,100), 151 (1,985), 159 (1,885), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Union Oil Co. of California	M. R. T. Co.
Laforno	KIXK	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Lagonia	KGAS	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705), 500 (600)	PG	X	Interlake S. S. Co.	R. C. A.
Lake Allen	KLEI	500 (600)	PG	X	Ford Motor Co.	Do.
Lake Benbow	KVAE	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	do.	Do.
Lake Benton	KSIU	375 (800), 425 (705), 500 (600)	PG	X	Mobile, Miami & Gulf S. S. Co.	R. M. C. A.
Lake Capens	KLUA	do.	PG	X	do.	Do.
Lake Crystal	KLAO	410 (730), 425 (705)	PG	X	Ford Motor Co.	Do.
Lake Ellithorpe	KOFM	375 (800), 425 (705), 500 (600)	PG	X	Newtex S. S. Corp.	Do.
Lake Fairport	KOGR	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Mobile, Miami & Gulf S. S. Co.	Do.
Lake Farrar	KISX	425 (705), 500 (600)	PG	X	Robert Dollar Co.	Owner.
Lake Faulk	KEJP	do.	PG	X	do.	Do.
Lake Flatonia	KOGS	375 (800), 425 (705), 500 (600)	PG	X	Newtex S. S. Corp.	R. M. C. A.
Lake Frances	KTAO	do.	PG	X	Frank Paramino	Do.
Lake Gaither	KOJZ	do.	PG	X	Newtex S. S. Corp.	Do.
Lake Galewood	KOJX	425 (705), 500 (600)	PG	X	Peninsula State S. S. Co.	Do.
Lake Giddings	KUCR	375 (800), 425 (705), 500 (600)	PG	X	Newtex S. S. Corp.	Do.
Lake Giltedge	KEBM	do.	PG	X	Lake Giltedge S. S. Co.	Do.
Lake Gorin	WRIE	375 (800), 425 (705), 500 (600), 410 (730)	PG	X	Ford Motor Co.	R. C. A.
Lake Henlock	KLOE	410 (730), 425 (705)	PG	X	do.	Do.
Lake Inglenook	KOBT	375 (800), 425 (705), 500 (600)	PG	X	Newtex S. S. Corp.	R. M. C. A.
Lake Kytte	WCOU	410 (730), 425 (705)	PG	X	Ford Motor Co.	Do.
Lake Louise	KGOK	do.	PG	X	do.	Do.
Lake Miraflores	KDNR	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Stanley Hiller (Inc.)	M. R. T. Co.
Lake Ormoc		143 (2,100), 153 (1,960), 157 (1,910), 375 (800), 394 (760), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600), 5,525 (54.3), 5,555 (54), 8,330 (36.01), 11,050 (27.15), 11,110 (27), 16,575 (18.099), 16,660 (18.007), 375 (800), 425 (705), 500 (600)	PG	X	Ford Motor Co.	R. C. A.
Lake Treba	KOSQ	do.	PG	X	Lake Treba Transpn. Co.	Do.
Lukina	WCCT	do.	PG	X	Alaska S. S. Co.	M. R. T. Co.
La Merced	KGBH	137 (2,190), 143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600)	PG	X	Columbia River Smoked Fish Co.	Owner.
Lanai	WTRU	do.	PG	X	Mrs. Arthur Curtiss James	Do.
Lancaster	KQUE	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Lancaster S. S. Corp.	R. M. C. A.
Lanikai	WJDQ	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	P	X	Hawaiian Sea Products Co.	Owner.
Lansing	WFDK	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	N	California Sea Products Co.	M. R. T. Co.
La Perla	KDCK	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 147 (2,040), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	United Fruit S. S. Corp.	T. R. T. Co.
La Placentia	KDPX	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Union Oil Co. of California	R. M. C. A.
La Purisima	KDVJ	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	do.	M. R. T. Co.



Lara.....	KEXN	375 (800), 400 (750), 425 (705), 469 (640), 500 (600)	PG	X	Atlantic & Caribbean Steam Nav. Co.	R. M. C. A.
Larry Doheny.....△	WOBE	375 (800), 400 (750), 425 (705), 469 (640), 500 (600)	PG	X	Petroleum Securities Corp.....	Do.
Lassen.....	KFKG	375 (800), 425 (705), 500 (600)	PG	X	E. K. Wood Lumber Co.....	Owner.
Latouche.....	WCCU	do.	PG	X	Alaska S. S. Co.....	M. R. T. Co.
Laurel.....	KONS	do.	PG	X	Forest Transport Corp.....	Do.
L. D. Potter.....	KFSJ	do.	PG	X	L. D. Potter.....	Owner.
Lebec.....△	KDTN	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 500 (600)	PG	X	Standard Transpn. Co.....	R. M. C. A.
L. E. Block.....△	KGFE	375 (800), 410 (730), 425 (705)	PG	X	Inland S. S. Co.....	Do.
Lebore.....	KFMP	375 (800), 400 (750), 425 (705), 469 (640), 500 (600)	PG	X	Ore S. S. Corp.....	Do.
Lehigh.....	KINN	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	Do.
Lemuel Burrows.....△	WJCS	do.	PG	X	Mystic S. S. Co.....	Do.
Lena Luckenbach.....△	KDED	do.	PG	X	Luckenbach S. S. Co.....	Do.
Leonine.....	WIDL	2320 (129.3)	P	X	Alaska Pacific Salmon Corp.....	Owner.
Leopold Adler.....	KFSK	500 (600)	PG	X	Wilmington Towing Co.....	Do.
Leroy.....	KFGK	426 (705), 500 (600)	PG	X	Aiken Towboat & Barge Co.....	Do.
Levant Arrow.....△	KDVD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transpn. Co.....	R. M. C. A.
Leviathan.....△	WSBN	131 (2,290), 133 (2,255), 135 (2,220), 137 (2,190), 139 (2,160), 141 (2,130), 143 (2,100), 145 (2,070), 147 (2,040), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 500 (600), 3,428 (87.514), 5,615 (53.428), 8,350 (35.93), 8,450 (35.50), 11,140 (26.93), 12,370 (24.25), 12,520 (23.96), 12,820 (23.40)	PG	X	United States Lines.....	Do.
Leviathan Lifeboat No. 31.....	WSNA	375 (800), 500 (600)	PG	X	do.....	Do.
Leviathan Lifeboat No. 32.....	WSNB	do.	PG	X	do.....	Do.
Lewis K. Thurlow.....	WJCT	375 (800), 425 (705), 500 (600)	PG	X	Mystic S. S. Co.....	Do.
Lewis Luckenbach.....△	WFOE	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Luckenbach S. S. Co.....	Do.
Lexington.....	WR CZ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Colonial Nav. Co.....	Do.
Leyte.....	KZAN	375 (800), 500 (600)	PG	X	Compania Maritima.....	Owner.
Libby Maine.....	WQCD	375 (800), 425 (705), 500 (600)	PG	X	Libby, McNeill & Libby.....	Do.
Liberator.....	KRIU	do.	PG	X	U. S. S. B.....	Do.
Liberty.....	WCOO	do.	PG	X	do.....	R. M. C. A.
Liberty Bell.....	KUJX	do.	PG	X	do.....	Do.
Liberty Glo.....	KIQZ	do.	PG	X	South Atlantic S. S. Co.....	Do.
Liebre.....△	KDPG	do.	PG	X	Standard Transpn. Co.....	Do.
Lieut. Col. Robert G. Gildart.....	KFPK	273 (1,100)	P	X	Inland Waterways Corp.....	Owner.
Lightburne.....△	KIVF	375 (800), 425 (705), 500 (600)	PG	X	Texas Co.....	R. M. C. A.
Ligonier.....	WJCJ	do.	PG	X	Gulf Refining Co.....	Do.
Lillian.....	KUCZ	do.	PG	X	A. H. Bull S. S. Co.....	Do.
Lillian Luckenbach.....△	WL CG	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Luckenbach S. S. Co.....	Do.
Limon.....△	KDAB	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	N, X	United Fruit S. S. Corp.....	T. R. T. Co.
Lio.....△	KDSO	do.	PG	X	Standard Transpn. Co.....	M. R. T. Co.
Livingstone Roe.....△	KDOD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.....	R. M. C. A.
L. J. Drake.....△	WOCU	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	do.....	Do.
Lone Star.....△	WJ DG	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	George G. Bourne.....	Do.
Loon.....	KU GJ	375 (800), 425 (705), 500 (600)	PG	X	Portland Trawling Co.....	Do.
Lorain.....	KIFZ	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	Do.
Lorraine Cross.....	KDDE	do.	PG	X	do.....	Do.

COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Los Alamos.....Δ	WSCP	375 (800), 425 (705), 500 (600)	PG	X	Standard Transpn. Co.	R. M. C. A.
Los Angeles.....Δ	WFDN	142 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	Union Oil Co. of California.	M. R. T. Co.
Louie Black.....Δ	WQBS	2,750 (109)	P	X	Wilmington Transpn. Co.	Owner.
Louise.....Δ	KFYF	375 (800), 425 (705), 500 (600)	P	X	Marine Products, (Inc.)	Do.
Louisiana.....Δ	WBCF	do	PG	X	Texas Co.	R. M. C. A.
Louis M. Winslow.....Δ	KGBR	do	PG	X	Ocean Trawling Co.	Do.
Louis R. Davidson.....Δ	KDUH	375 (800), 410 (730), 425 (705)	PG	X	American S. S. Co.	Owner.
Lubrico.....Δ	KDUC	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 426 (705), 500 (600)	PG	X	Standard Oil Co. of California	M. R. T. Co.
Luzon.....Δ	KZAL	500 (600)	PG	X	Fernandez Hermanes.	Owner.
Lynonia.....Δ	KULZ	375 (800), 425 (705), 500 (600)	PG	X	C. H. K. Curtis	Do.
Lynford E. Geer.....Δ	WADF	375 (800), 410 (730), 425 (705)	PG	X	Reiss S. S. Co.	Do.
M. A. Bradley.....Δ	WEDG	do	PG	X	Stewart Furnace Co.	R. C. A.
Mackay Radio & Telegraph Co. (general call for all vessels)	KGMM			X	Mackay Radio & Telegraph Co.	
Macaria.....Δ	KZBQ	500 (600)			Vicente Madrigal.	Owner.
Macon.....Δ	WBCD	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	City of New York, Department of Plant & Structures.	Do.
Mactan.....Δ	KZDW	396 (755), 500 (600)	PG		Compania Maritima	
Madison.....Δ	KGBN	375 (800), 400 (750), 425 (705), 500 (600)	PG	N	Eastern S. S. Lines, (Inc.)	R. M. C. A.
Magallanes.....Δ	KZDM	396 (755), 500 (600)	PG		Gutierrez Hermanos	Owner.
Magmeric.....Δ	KOJS	375 (800), 425 (705), 500 (600)	PG	X	South Atlantic S. S. Co.	R. M. C. A.
Mahoe.....Δ	WNCR	do	PG	X	Young Brothers, Ltd.	Owner.
Mahukoma.....Δ	KENM	375 (800), 500 (600)	PG	X	Matson Nav. Co.	
Maiden Creek.....Δ	KIPX	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Maine.....Δ	WKCN	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Fairfield S. S. Corp.	Do.
Maitland No. 1.....Δ	WCDJ	375 (800), 410 (730), 425 (705)	PG	X	Toronto, Hamilton & Buffalo Navigation Co.	R. C. A.
Major Wheeler.....Δ	WFH	375 (800), 425 (705), 500 (600)	PG	X	Baltimore Insular Line	R. M. C. A.
Makawao.....Δ	KDNH	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Matson Nav. Co.	
Makaweli.....Δ	WMAO	375 (800), 425 (705), 500 (600)	PG	X	do	
Makena.....Δ	WMAI	do	PG	X	do	
Makiki.....Δ	WMCD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	
Makua.....Δ	KUZF	375 (800), 425 (705), 500 (600)	PG	X	do	
Mala.....Δ	KUKL	do	PG	X	do	Do.
Malabar.....Δ	WKCR	375 (800), 425 (705), 500 (600), 160 (1,875), 151 (1,985), 143 (2,100), 141 (2,130), 137 (2,190)	PG	X	Malabar S. S. Co.	Owner.
Malacca.....Δ	KERT	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Malacca S. S. Co.	Do.
Malama.....Δ	KIBF	375 (800), 425 (705), 500 (600)	PG	X	Matson Nav. Co.	Owner.
Malang.....Δ	KDHY		PG	X	Malco S. S. Co.	R. M. C. A.
Malchae.....Δ	KULC	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Malah S. S. Co.	Do.
Malibu.....Δ	WQBN	375 (800), 400 (750), 425 (705), 454 (660), 463 (640), 500 (600)	PG	X	Mrs. May K. Rindge	Do.
Maliko.....Δ	WDOI	375 (800), 425 (705), 500 (600)	PG	X	Matson Nav. Co.	M. R. T. Co.

Mallemak	KIXX	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Malsah S. S. Co.	R. M. C. A.
Malolo	WMCE	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,961), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	N	Matson Nav. Co.	Do.
Malolo Lifeboat	KIHA				do	Do.
Do	KIIB				do	Do.
Maltran	KULB	375 (800), 425 (705), 500 (600)	PG	X	Maltrau S. S. Co.	Do.
Malvern	WRBP	375 (800), 425 (705), 500 (600)	PG	X	C. P. Whitehead	Do.
Mana	KOZG	do	PG	X	Matson Nav. Co.	Owner.
Manatawny	KDFM	do	PG	X	Manatawny S. S. Corp.	R. M. C. A.
M. & J. Tracy	WMHV	do	PG	X	M. & J. Tracy, (Inc.)	Do.
Mangore	WQCG	400 (750), 425 (705), 468 (640), 500 (600), 375 (800)	PG	X	Ore S. S. Corp.	Do.
Manhattan Island	WFOI	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Finkbine-Guild Transpn. Co.	Do.
Manini	KDDQ	375 (800), 425 (705), 500 (600)	PG	X	Matson Nav. Co.	Do.
Manistique	KFRS	375 (800), 410 (730), 425 (705)	PG	N, X	Reid Towing & Wrecking Co.	Do.
Manitou	WBDF	do	PG	N	Michigan Transit Corp.	R. C. A.
Manoa	WMCF	125 (2,400), 143 (2,100), 151 (1,985), 153 (1,961), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Matson Nav. Co.	R. M. C. A.
Manukai	KDSF	125 (2,400), 143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	do	Do.
Manulani	KDRQ	135 (2,220), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	do	Do.
Maracaibo	WQCB	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Atlantic & Caribbean Steam Navigation Co.	Do.
Margaret	WKCH	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	A. H. Bull S. S. Co.	Owner.
Margaret Dollar	KDUV	160 (1,875), 375 (800), 425 (705), 500 (600) 151 (1,985), 143 (2,100), 125 (2,400)	PG	X	Dollar S. S. Line	Do.
Margaret F. Sterling	KFZR	375 (800), 425 (705), 500 (600)	PG	X	Arcade Shipping Co.	Do.
Margo	WKDI	do	PG	X	B. A. Masse	R. M. C. A.
Marian Otis Chandler	WBCV	410 (730), 425 (705), 454 (660), 500 (600), 375 (800)	PG	X	Los Angeles S. S. Co.	Do.
Mariposa	WTBZ	do	PG	X	George D. Rosengarten	R. C. A.
Marj III	KGAT	375 (800), 410 (730), 425 (705), 394 (760), 5, 525 (543), 5, 615 (53,428), 8,330 (36.01)	PG	X	J. H. Oberfelder	Do.
Marore	KDZO	400 (750), 425 (705), 468 (640), 500 (600), 375 (800)	PG	X	Ore S. S. Corp.	R. M. C. A.
Marquette	KFNP	375 (800), 410 (730), 425 (705)	PG	X	Cleveland Cliffs S. S. Co.	Do.
Marquette & Bessemer No. 2	WFDQ	375 (800), 394 (760), 410 (730), 425 (705)	PG	X	Marquette & Bessemer Dock & Nav. Co.	R. C. A.
Martha Foss	WGDQ	375 (800), 425 (705), 500 (600)	PG	X	Foss Co.	Do.
Martinique	KUQL	do	PG	X	Colombian S. S. Co.	R. M. C. A.
Martin Mullen	KDXY	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.	Do.
Mary	KTOE	375 (800), 425 (705), 500 (600)	PG	X	A. H. Bull S. S. Co.	Do.
Mary D	KVZN	do	P	X	Pacific American Fisheries	Owner.
Mary Ellen	WIDZ	2, 320 (129.3)	PG	X	Farwest Fisheries (Inc.)	R. M. C. A.
Mary Luckenbach	KDLX	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Luckenbach S. S. Co.	Do.
Mary Pinchot	KFZU	143 (2,098), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640)	PG	X	Gifford Pinchot	Do.
Massmar	KUSQ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Calmar S. S. Corp.	Do.
Matinicock	WBCT	375 (800), 425 (705), 500 (600)	PG	X	Matinicock S. S. Co.	Do.

RADIO STATIONS OF THE UNITED STATES

COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Matsonia	△ WMOG	125 (2,400), 137 (2,190), 141, (2, 130), 143 (2,100), 151 (1,985), 153 (1960), 157 (1910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).	PG	N	Matson Nav. Co.	R. M. C. A.
Mauban	KZBM	500 (600)	PG	X	Compania Gendral de Tabacas de Filipinas.	Owner
Maini	△ WMCH	125 (2,400), 143 (2,000), 151 (1985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).	PG	N	Matson Nav. Co.	R. M. C. A.
Mauna, Ala.	△ WQEU	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do	Do
Maunalei	△ KDRV	375 (800), 425 (705), 500 (600)	PG	X	do	Owner
Maunawili	△ KDQT	do	PG	X	do	Do
Maurice Tracy	KGBV	do	PG	X	do	Do
Mayan	KERM	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	M. & J. Tracy (Inc.)	R. M. C. A.
Mazama	KNUO	375 (800), 425 (705), 500 (600)	PG	X	Gulf Caribbean S. S. Line	Do
McKeesport	KENB	375 (800) 410 (730) 425 (705), 454 (660), 500 (600)	PG	X	Mazama S. S. Co.	Do
Meanticut	KDQH	125 (2,400), 137 (2, 190), 141 (2, 130), 143 (2, 100), 145 (2, 070), 149 (2, 015), 151 (1, 985), 153 (1960), 157 (1, 910), 159 (1,885), 160 (1,875), 375, (800) 425 (705) 500 (600).	PG	X	U. S. S. B	Do
Medina	WHCG	375 (800), 425 (705), 500 (600)	PG	X	Mallory S. S. Co.	Do
Melrose	WJCU	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Mystic S. S. Co.	Do
Melville Dollar	KDNI	400 (750), 425 (705), 468 (640), 500 (600)				
Memnon	KDMH	143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600)	PG	X,N	Columbia River Packers Assn	Owner
Memory III	△ WGDN		P	X	A. E. Fitkin	Do
Memphis	KDVY	273 (1,100)	PG	X	Inland Waterways Corp	Do
Memphis City	KDTR	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	U. S. Steel Products Co.	R. M. C. A.
Menominee	KODL	500 (600)	PG	X	Southern Transpn. Co	Do
Mercer	KEPF	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	U. S. S. B	Do
Mericos H. Whittier	△ KODQ	375 (800), 425 (705), 500 (600)	PG	X	Associated Oil Co.	M. R. T. Co
Metapan	△ KDAY	137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 147 (2,041), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).	PG	N	United Fruit S. S. Corp.	T. R. T. Co.
Meteor	KDYJ	375 (800), 425 (705), 500 (600)	PG	X	Meteor S. S. Co	
Mevania	KDCU	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).	PG	X	Malston Co.	R. M. C. A.
Mexican	△ WACK	375 (800), 425 (705), 500 (600)	PG	X	American Hawaiian S. S. Co.	Owner
Mexico	WECV	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	New York & Cuba Mail S. S. Co.	R. M. C. A.
M. F. Elliot	△ KDNK	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Standard Shipping Co	Do
M. F. Sterling	KDCJ	500 (600), 425 (705), 375 (800)	PG	X	Sterling S. S. Corp	F. T. Co.
Miami	WHCR	375 (800), 425 (705), 500 (600)	PG	N	Peninsular & Occidental S. S. Co.	R. M. C. A.
Michael Gallagher	KFTT	375 (800), 410 (730), 425 (705)	PG	X	Becker S. S. Co	Do
Michael Tracy	WMEE	375 (800), 425 (705), 500 (600)	PG	X	M. & J. Tracy (Inc.)	
Michigan	KEGS	do	PG	X	States S. S. Co.	Do
Do	△ KFLN	375 (800), 410 (730), 425 (705)	PG	X	Cleveland Cliffs S. S. Co.	



Mid-West	WPBU	2750 (109.1)					
Migrant	WJDF						
Mikimiki	WIDI	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600), 2,320 (129.3)		P	X	Benjamin G. Brinkman	Owner.
Millinoeket	WKCI	375 (800), 425 (705), 500 (600)		PG	X	Carl Tucker	R. M. C. A.
Milton S. Patrick	KGEB	2,750 (109.1)		P	X	Young Brothers (Ltd.)	Owner.
Mimi	WOBZ	2,740 (109.5)		PG	X	A. H. Bulf S. S. Co.	R. M. C. A.
Mineola	KSEE	375 (800), 400 (750), 425 (705), 469 (640), 500 (600)		P	X	Wilmington Transp. Co.	Owner.
Minnekahta	KDKK	137 (2,190), 139 (2,155), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	X	Bernard S. Shields	Do.
Minnequa	△ KIVB	273 (1,099)		PG	N	New Orleans & South American S. S. Co.	R. M. C. A.
Minnesota	WQCY	375 (800), 425 (705), 500 (600)		P	X	Atlantic Transport Co.	Do.
Minnesota	△ WACL	375 (800), 425 (705), 500 (600)		PG	X	American Scantic Line (Inc.)	Do.
Missoula	WJAO	do		P	X	Inland Waterways Corp.	Owner.
Missouri	WFDT	273 (1,100)		PG	X	American-Hawaiian S. S. Co.	Do.
Missourian	△ WACM	375 (800), 425 (705), 500 (600)		PG	X	Hanmond Lumber Co.	R. M. C. A.
Mist	WSBZ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)		P	X	Inland Waterways Corp.	Owner.
Mitchell	KOTF	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)		PG	X	American Hawaiian S. S. Co.	Do.
Mizpah	△ KFZT	143 (2,100), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)		PG	X	Bay State Fishing Co.	R. M. C. A.
Mobile	KFMJ	273 (1,100)		PG	X	U. S. S. B.	Do.
Mobile City	KDCE	375 (800), 425 (705), 500 (600)		PG	X	Eugene F. MacDonald	Do.
Mohawk	WRCE	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)		P	X	Inland Waterways Corp.	Owner.
Do.	△ KFYU	137 (2,190), 141 (2,120), 143 (2,100), 151 (1,985), 153 (1,961), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	X	U. S. Steel Products Co.	R. M. C. A.
Mohegan	WRCM	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)		PG	N	New England S. S. Co.	Do.
Mojave	△ KDSH	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	X	Clyde S. S. Co.	Do.
Mormus	WICT	375 (800), 425 (705), 500 (600)		PG	X	New England S. S. Co.	Do.
Mongolia	WCCN	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,987), 153 (1,960), 160 (1,875), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600)		PG	X	Standard Transp. Co.	Do.
Montana	KOJF	375 (800), 425 (705), 500 (600)		PG	N	Southern Pacific Co.	Owner.
Montanan	△ WACN	do		PG	X	Atlantic Transport Co.	R. M. C. A.
Montanes	KZCQ	630 (475), 500 (600)		PG	X	do	Do.
Montauk	KIXV	375 (800), 425 (705), 500 (600)		PG	X	American Hawaiian S. S. Co.	Owner.
Montebello	△ KDPR	375 (800), 400 (750), 425 (705), 454 (660), 500 (600)		PG	X	Todoro R. Yangco	Do.
Monterey	WECW	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)		PG	X	Atlantic Transport Co.	R. M. C. A.
Montgomery City	KDJZ	375 (800), 425 (705), 500 (600)		PG	X	Union Oil Co. of California	Do.
Moody	KDYT	do		PG	X	New York & Cuba Mail S. S. Co.	Do.
Morris S. Tremaine	KFTB	375 (800), 410 (730), 425 (705)		PG	X	U. S. Steel Products Co.	Do.
Moseola	KDCQ	125 (2,400), 131 (2,290), 133 (2,255), 135 (2,220), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	X	Astoria Co.	Owner.
Mount Baker	WQCN	375 (800), 425 (705), 500 (600)		PG	X	Eastern S. S. Corp.	Do.
Mount Clay	KDBX	143 (2,100), 151 (1,985), 425 (705), 500 (600)		PG	X	U. S. S. B.	
Mount Evans	KIMT	375 (800), 425 (705), 500 (600)		PG	X	Red Salmon Canning Co.	Do.
Mount Hope	WECQ	375 (800), 500 (600)		PG	N	American Ship & Commerce Nav. corp.	Do.
Multnomah	WCDT	375 (800), 425 (705), 500 (600)		PO	X	U. S. S. B.	
Munaires	WACA	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)		PG	X	Providence, Fall River & Newport Steamboat Co.	Do.
Munahro	WNCB	375 (800), 425 (705), 500 (600)		PG	N	Chas. R. McCormick Lumber Co.	Do.
				PG	X	Munaires S. S. Corp.	R. M. C. A.
				PG	X	Munson S. S. Lines	Do.

RAIO STATIONS OF THE UNITED STATES

COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Munamar.....	WNCC	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 190 (1,875), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Munamar S. S. Corp.	R. M. C. A.
Munami.....	KELM	375 (800), 425 (705), 500 (600)	PG	X	Chas. R. McCormick Lumber Co.	
Munargo.....	KDWH	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Munargo S. S. Line	Do.
Munbeaver.....	WKCO	375 (800), 425 (705), 500 (600)	PG	X	Sudbury S. S. Corp.	Do.
Muncove.....	KEMN	do.	PG	X	Munson S. S. Line	Do.
Mundelta.....	WNCD	do.	PG	X	do.	Do.
Munindies.....	WNCE	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do.	Do.
Munising.....	△ KFNQ	375 (800), 410 (730), 425 (705)	PG	X	do.	Do.
Munisia.....	WNCB	375 (800), 425 (705), 500 (600)	PG	X	Cleveland Cliffs S. S. Co.	
Munleon.....	KINJ	do.	PG	X	Munson S. S. Line	Do.
Munlisto.....	KORT	375 (800), 425 (705), 500 (600)	PG	X	Chas. R. McCormick Lumber Co.	
Munjoyal.....	KOFP	do.	PG	X	Munson S. S. Lines	Do.
Munmotor.....	WVOI	do.	PG	X	do.	Do.
Munorleans.....	WNCG	do.	PG	X	do.	Do.
Munplace.....	WNCB	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do.	Do.
Munrio.....	WNCI	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Munsomo.....	WNCJ	do.	PG	X	Munsomo S. S. Corp.	Do.
Muskogee.....	WBCR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Muskogee S. S. Co.	Do.
Myrtle.....	KOTG	375 (800), 425 (705), 500 (600)	PG	X	Pacific Atlantic S. S. Co.	
Mystic.....	WBCP	375 (800), 410 (730), 425 (705), 454 (660)	PG	X	Beaverson Corp.	Do.
Nabesna.....	KONV	375 (800), 425 (705), 500 (600)	PG	X	Nabesna S. S. Co.	M. R. I. Co.
Nakcen.....	WSBM	2320 (129.3)	P	X	Nakat Packing Corp.	Owner.
Nan B.....	WIDV	do.	P	X	Alaska Pacific Salmon Corp.	Do.
N. & K. No. 2.....	WOBX	375 (800), 400 (750), 425 (705), 454 (660), 500 (600)	PG	X	Van Camp Sea Food Co.	
Nantucket.....	WMCY	375 (800), 425 (705), 454 (660), 500 (600)	PG	X	Merchants & Miners Transpn. Co.	R. M. C. A.
Nanuk.....	WKDB	do.	PG	X	Swenson Fur Trading Co.	Do.
Narbo.....	KDIG	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 500 (600)	PG	X	U. S. S. B.	
Narcissus.....	KDII	343 (875), 375 (800), 425 (705), 500 (600)	PG	X	do.	
Narwhal.....	KDVP	425 (705), 500 (600)	PG	X	Phillip Shore	Owner.
Nashaba.....	KDSM	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 500 (600)	PG	X	U. S. S. B.	
Natchez.....	KDJY	273 (1,100)	P	X	Inland Waterways Corp.	Do.
Natirar.....	KDKM	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Nebraskan.....	△ WACO	375 (800), 425 (705), 500 (600)	PG	X	American Hawaiian S. S. Co.	Owner.
Negaunee.....	△ KFNR	375 (800), 410 (730), 425 (705)	PG	X	Cleveland Cliffs S. S. Co.	
Negros.....	△ KZEN	400 (750), 500 (600)	PG	X	Compania Maritima	
Neil Macleod.....	KZAG	500 (600)	PG	X	do.	Do.
Nelson.....	WHCM	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Cuba Distilling Co.	R. M. C. A.

Nemaha	KUSR	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Neponset	WQIO	425 (705), 500 (600)	PG	X	Luckenbach S. S. Co.	Owner.
Nevada	KOZJ	375 (800), 425 (705), 500 (600)	PG	X	States S. S. Co.	R. M. C. A.
Do	WTUO	do	PG	X	Texas S. S. Co.	Owner.
Nevadan	WACP	do	PG	X	American Hawaiian S. S. Co.	R. M. C. A.
New Britain	KIRG	do	PG	X	Great Northwestern Shipping Corp.	Do.
New Hampshire	WRCF	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	New England S. S. Co.	Do.
New Haven	WRCN	do	PG	X	do	Do.
New Jersey	KDWD	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Texas Co.	Do.
New Orleans	KDFB	do	PG	X	U. S. S. B.	Do.
Newton	WICV	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Mystic S. S. Co.	Owner.
New York	KOSL	375 (800), 425 (705), 500 (600)	PG	X	States S. S. Co.	R. M. C. A.
Do	WBCG	do	PG	N	Texas Co.	Do.
Do	WFCE	141 (2,130), 143 (2,100), 151 (1,985), 160 (1,875), 425 (705), 500 (600)	PG	X	Eastern S. S. Lines (Inc.)	Owner.
Nillraga	WGDY	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Gano Dunn	Do.
Nippekontu	WOBV	4,148 (72.3)	P	X	Robert D. Russel	Do.
Nipsic	KDJJ	do	PG	X	Madrigal & Co.	Do.
Nishmaha	KEVM	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Nizhna	WCCV	375 (800), 425 (705), 500 (600)	PG	X	Alaska S. S. Co.	M. R. T. Co.
Nizhna	WHDC	425 (705), 469 (640), 500 (600), 5,615 (53.43), 8,370 (35.84), 12,550 (23.90)	P	X	Damon (Inc.)	R. M. C. A.
Nomad	KDGZ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Grace S. S. Co.	Do.
Nora	KFYB	375 (800), 425 (705), 500 (600)	PG	X	Northland Transpn. Co.	Do.
Norco	WOB1	do	PG	X	E. M. Chance	Do.
Nor'easter	WZUA	375 (800), 425 (705), 500 (600)	PG	X	Coastwise Transpn. Corp.	Do.
Norfolk	KEKC	do	PG	X	Norma S. S. Corp.	Do.
Norma	WPCJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan-American Petroleum & Transport Co.	Do.
Norman Bridge	WTBA	375 (800), 410 (730), 425 (705)	PG	N, X	Chicago Duluth & Georgian Bay Transit Co.	R. C. A.
North American	WRBZ	8,250 (36.36)	P	X	Utopian Fisheries Co.	Owner.
North Dakota	KREG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	John Borden	R. M. C. A.
Northern Light	KFEW	500 (600), 425 (705), 375 (800)	PG	X	Alaska-Portland Packers Assn	Do.
North King	WECG	375 (800), 425 (705), 500 (600)	PG	N	Eastern S. S. Lines (Inc.)	Do.
Northland	WCCW	do	PG	N	Alaska S. S. Co.	M. R. T. Co.
Northwestern	WEDT	do	PG	X	Pacific American Fisheries	R. M. C. A.
Norwood	WQOE	do	PG	X	New Orleans & South American S. S. Co.	Do.
Nosa Chief	KUSF	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	do	Do.
Nosa King	KUML	do	PG	X	do	Do.
Nosa Prince	KDCN	do	PG	X	do	Do.
Nosa Queen	WQBT	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N, X	Vincent Astor	Do.
Nourmahal	WEDR	375 (800), 425 (705), 500 (600)	PG	X	National S. S. Co.	Owner.
Noya	KZAS	500 (600)	PG	X	Hercules Lumber Co.	Do.
Ntra. Sra. De Alba	KZCR	do	PG	X	Compania Maritima	Do.
Ntra. Sra. Del Carmen	KZMD	500 (600), 375 (800), 315 (950)	PG	X	Genato & Co.	Do.
Ntra. Sra. de la Paz	WBCK	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pocahontas S. S. Co.	R. M. C. A.
Oakley L. Alexander	KUGG	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Oakman	KDAZ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Calmar S. S. Corp.	Do.
Oakmar	KUNN	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Oakpark	KOVN	do	PG	X	do	Do.
Oakspring						

## COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Oak wood	KDIN	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Occidental	△ KUSJ	do	PG	X	Texas S. S. Co.	Do.
Ocean	KFKM	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Bay State Fishing Co.	Do.
Oceania	KFYC	375 (800), 425 (705), 500 (600)	PG	X	Donaldson Brown	Owner.
Oceania Vance	KG CJ	do	PG	X	Halfhill Packing Corp.	
Octorara	△ WADO	375 (800), 410 (730), 425 (705)	PG	X	Great Lakes Transit Corp.	R. C. A.
Oduna	KDID	143 (2,100) 137 (2,190), 143 (2,100), 151 (1,987), 375 (800), 425 (705), 500 (600)	PG	N X	Alaska S. S. Co.	M. R. T. Co.
Ogontz	KINB	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Ohioan	△ WACQ	do	PG	X	American Hawaiian S. S. Co.	Owner.
Ohonkara	KURV	500 (600)	PG	X	Carl Tucker	Do.
Oldham	KDQG	do	PG	X	U. S. S. B.	
Olean	△ KOBN	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Vacuum Oil Co.	R. M. C. A.
Oleum	△ WFDO	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Union Oil Co. of California.	M. R. T. Co.
Olympia	KILL	375 (800), 425 (705), 500 (600)	PG	X	Tacoma Oriental S. S. Co.	Owner.
Do	KDIV	do	PG	X	E. K. Wood Lumber Co.	Do.
Oneida	KDJO	143 (2,100), 151 1,985, 375 (800), 394 (760), 410 (730), 425 (705), 500 (600)	PG	X	Ford Motor Co.	R. C. A.
Do	KEZJ	375 (800), 425 (705), 500 (600)	PG	X	Clyde S. S. Co.	Owner.
Onondaga	KDJR	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 161 (1,865), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600), 394 (760)	PG	X	Ford Motor Co.	R. C. A.
Ontario	WM CZ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Merchants & Miners Transpn. Co.	R. M. C. A.
Do	WSBP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Albert F. Dobbstein	Do.
Orau	KUDG	375 (800), 425 (705), 500 (600)	PG	X	Oriental Navigation Co.	R. M. C. A.
Oregon	WBDN	do	PG	X	Independent Navigation Co.	Owner.
Do	△ KUTD	do	PG	X	States S. S. Co.	Do.
Oregonian	△ WACR	do	PG	X	American Hawaiian S. S. Co.	Do.
Ore S. S. Corp. and Calmar S. S. Corp. (general call for all vessels)	WCBO	do			Ore S. S. Corp. and Calmar S. S. Corp.	R. M. C. A.
Orient	KOLC	do	PG	X	Oriental Navigation Co.	
Orinco	KIMX	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do	
Oriole	KUKJ	do	PG	X	do	
Oritani	KFZJ	375 (800), 425 (705), 500 (600)	PG	X	do	
Orizaba	WE CX	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	New York & Cuba Mail S. S. Co.	Do.
Orleans	KIDZ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Pacific Atlantic S. S. Co.	
Ormes	KFZJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Oriental Navigation Co.	R. M. C. A.
Ormidale	WB DL	410 (730), 425 (705)	PG	X	Gravel Motorship Corp.	Owner.
Oscar D. Bennett	△ WPCK	375 (800), 400 (750), 410 (730), 425 (705), 455 (660), 468 (640), 500 (600)	PG	X	Pan-American Petroleum & Transpn. Co.	R. M. C. A.
Osceola	KUGN	375 (800), 425 (705), 500 (600)	PG	X	Osceola S. S. Co.	Do.
O. S. McFarland	△ KDUZ	375 (800), 410 (730), 425 (705)	PG	X	Lakewood S. S. Co.	R. C. A.



Osprey.....	KUJN	375 (800), 425 (705), 500 (600)	PG	X	Portland Trawling Co.	R. M. C. A.
Osprey III.....	WPBV	2,727 (109)	P	X	Carman R. Runyon, jr.	Owner.
Ossining.....	KEFR	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Otho.....	KULX	375 (800), 425 (705), 500 (600)	PG	X	American West African Line	Do.
Otsego.....	WQCJ	do	PG	N, X	Libby, McNeill & Libby	Owner.
O. T. Waring.....	WOCV	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 410 (730), 425 (705), 455 (660), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.
Ouananiche.....	KGAQ	143 (2,100), 157 (1,910), 161 (1,865), 375 (800), 394 (760), 400 (750), 410 (730), 425 (705), 500 (600)	PG	X	P. K. Hudson	Owner.
Pacific.....	KDZV	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Argonaut S. S. Co.	R. M. C. A.
Pacific Cedar.....	KUNR	375 (800), 425 (705), 500 (600)	PG	X	Dimon S. S. Corp.	Do.
Pacific Fir.....	KUPJ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do	Do.
Pacific Hemlock.....	WSUA	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Pacific Oak.....	KEZN	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	do	Do.
Pacific Pine.....	KUVZ	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Pacific Redwood.....	KDJG	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do	Do.
Pacific Spruce.....	KDCV	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 500 (600)	PG	X	do	Do.
Paco.....	KDEW	375 (800), 425 (705), 500 (600)	PG	X	Adelphia S. S. Corp.	Do.
Padisay.....	KUQC	do	PG	X	American West African Line	Do.
Palawan.....	KZDQ	500 (600)	PG	X	M. S. Palawan (Inc.)	Owner.
Panaman.....	WACS	375 (800), 425 (705), 500 (600)	PG	X	American Hawaiian S. S. Co.	Do.
Pan America.....	KDWZ	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Munson S. S. Line	R. M. C. A.
Panay.....	KZRG	500 (600)	PG	X	Compania Maritima	Owner.
Panuco.....	WECY	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	New York & Cuba Mail S. S. Co.	R. M. C. A.
Papoose.....	WNBS	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Petroleum Nav. Co.	Do.
Parismina.....	KDAG	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	United Fruit S. S. Corp.	T. R. T. Co.
Pastores.....	KDBD	137 (2,190), 141 (2,130), 143 (2,100), 145 (2,060), 147 (2,041), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	N	do	Do.
Pat Doheny.....	WPRQ	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 500 (600)	PG	N	Petroleum Securities Co.	R. M. C. A.
Patrick Henry.....	KUPM	375 (800), 425 (705), 500 (600)	PG	N	U. S. S. B.	Do.
Paul H. Harwood.....	KJIO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.	Do.
Paul Luckenbach.....	WLCH	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Luckenbach S. S. Co.	Do.
Paulsboro.....	WKCL	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Vacuum Oil Co.	Do.
Paul Shoup.....	KDTE	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Associated Oil Co.	M. R. T. Co.
Pawnee.....	KFZE	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Harry P. Bingham	R. M. C. A.
Paz.....	KZCG	500 (600)	PG	X	Vicento Madrigal	Owner.
Peacock.....	KDKY	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Peary.....	WPCR	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Matthew F. Bramley	Do.
Pecos.....	WLCH	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Mallory S. S. Co.	Do.
Penguin.....	WIIS	2,740 (109.5)	P	X	E. V. Rideout Co.	Owner.
Do.....	KOMJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Portland Trawling Co.	R. M. C. A.
Penmar.....	KUNF	do	PG	X	Calmar S. S. Corp.	Do.
Pennsylvania.....	KUSG	375 (800), 425 (705), 500 (600)	PG	X	States S. S. Co.	

COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account set- tled by—
Pennsylvania.....	△ WKCX	375 (800), 425 (705), 500 (600)	PG	X	Texas Co.	R. M. C. A.
Pennsylvania.....	△ WACT	425 (705), 500 (600)	PG	X	American Hawaiian S. S. Co.	Owner.
Pennsylvania Sun.....	△ KFPC	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sun Oil Co.	R. M. C. A.
Penobscot.....	WXOI	375 (800), 425 (705), 500 (600)	PG	X	Penobscot S. S. Co.	Do.
Pequonnock.....	WRCP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	New England S. S. Co.	Do.
Pere Marquette 15.....	△ WDCA	375 (800), 410 (730), 425 (705), 394 (760)	PG	X	Pere Marquette Ry. Co.	Owner.
Pere Marquette 17.....	△ WDCC	375 (800), 410 (730), 394 (760), 425 (705)	PG	X	do.	Do.
Pere Marquette 18.....	△ WDCC	do.	PG	X	do.	Do.
Pere Marquette 19.....	△ WDCB	375 (800), 410 (730), 425 (705), 394 (760)	PG	X	do.	Do.
Pere Marquette 20.....	△ WDCE	375 (800), 410 (730), 394 (760), 425 (705)	PG	X	do.	Do.
Pere Marquette 21.....	△ WDCF	do.	PG	X	do.	Do.
Pere Marquette 22.....	△ WDCG	do.	PG	X	do.	Do.
Perry L. Smithers.....	KUDZ	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Booth Fisheries Co.	R. M. C. A.
Peru.....	WKDJ	do.	PG	X	Jahagan Construction Co.	Do.
Peter H. Crowell.....	KEXT	375 (800), 425 (705), 500 (600)	PG	X	Mystic S. S. Co.	Do.
Peter Helms.....	KULP	do.	PG	X	Chas. R. McCormick Lumber Co.	Do.
Peter Kerr.....	KUZT	375 (800), 425 (705), 500 (600)	PG	X	Pacific Atlantic S. S. Co.	Owner.
Peter Reiss.....	△ WADG	375 (800), 410 (730), 425 (705)	PG	X	Reiss S. S. Co.	Do.
Peter White.....	△ KFLO	do.	PG	X	Presque Isle Transpn. Co.	Do.
Petrel.....	KFDG	375 (800), 425 (705), 500 (600)	PG	X	Portland Trawling Co.	R. M. C. A.
Do.....	WRBS	2,220 (124.3)	P	X	Nakat Packing Corp.	Owner.
Phantom.....	WHDV	5,525 (54.3), 5,555 (54)	P	X	Thorne Donnelley	Do.
Phillip D. Block.....	△ WCDG	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.	Do.
Phoenix.....	WJEO	375 (800), 425 (705), 500 (600)	PG	X	American Tankers Corp.	R. M. C. A.
Pioneer.....	△ WOCW	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	Do.
Do.....	KFMK	375 (800), 410 (730), 425 (705)	PG	X	Cleveland Cliffs S. S. Co.	Do.
Pipestone County.....	KIMZ	375 (800), 410 (730), 425 (705), 455 (660), 500 (600)	PG	X	U. S. B.	Do.
Plover.....	KUPT	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Portland Trawling Co.	Do.
Plymouth.....	△ WCCL	375 (800), 425 (705), 500 (600)	PG	X	Plymouth S. S. Co.	Do.
Do.....	WRCH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	New England S. S. Co.	Do.
Poinsettia.....	KFHV	425 (705), 500 (600), 8,108 (37)	PG	X	Walter W. Horne	Owner.
Point Arena.....	KUCD	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Gulf Pacific Line	M. R. T. Co.
Point Bonita.....	KIFQ	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Point Breeze.....	△ KJEI	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Atlantic Refining Co.	R. M. C. A.
Point Fermin.....	KOCP	375 (800), 425 (705), 500 (600)	PG	X	Gulf Pacific Line	M. R. T. Co.
Point Gorda.....	WSBK	375 (800), 425 (705), 500 (600), 410 (730), 454 (660)	PG	X	Swayne & Hoyt	Do.
Point Judith.....	KPAA	375 (800), 425 (705), 500 (600)	PG	X	Chas. R. McCormick Lumber Co.	Do.
Point Montara.....	KOCN	do.	PG	X	Gulf Pacific Line	Do.
Point Reyes.....	KUCJ	do.	PG	X	do.	Do.
Point San Pablo.....	KOZN	do.	PG	X	do.	Do.
Point San Pedro.....	KDCO	do.	PG	X	do.	Do.
Point Sur.....	KUKD	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Polarine.....	△ WOCX	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.

Polybius.....	KIGL	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	Do.
Pomona.....△	KDAT	do.....	PG	X	Pomona S. S. Co.....	Do.
Pompey.....	KZBF	375 (800), 500 (600).....	PG	X	National Coal Co.....	Owner.
Ponce.....	WFCB	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	N	New York & Porto Rico S. S. Co.....	R. M. C. A.
Pontiac.....	KFML	375 (800), 410 (730), 425 (705).....	PG	X	Cleveland Cliffs S. S. Co.....	Do.
Portland Trawling Co. (general call for all vessels).	KGPT	.....			Portland Trawling Co.....	Do.
Porto Rico.....	WFCC	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	N	New York & Porto Rico S. S. Co.....	Do.
Potter.....△	KDFC	.....	PG	X	U. S. S. B.....	Owner.
President Adams.....△	KDRL	143 (2,100), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).....	PG	N	Dollar S. S. Line.....	Do.
President Cleveland.....△	KDCM	137 (2,190), 143 (2,100), 151 (1,985), 159 (1,885), 375 (800), 425 (705), 500 (600).....	PG	N	do.....	Do.
President Garfield.....△	KDTC	375 (800), 425 (705), 500 (600).....	PG	N	do.....	Do.
President Grant.....△	KDUT	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 410 (730), 425 (705), 468 (640), 454 (660), 500 (600).....	PG	N	Admiral Oriental Line.....	Do.
President Harding.....△	KDWK	131 (2,290), 137 (2,190), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600).....	PG	N	United States Lines.....	R. M. C. A.
President Harrison.....△	KDMQ	375 (800), 425 (705), 500 (600).....	PG	N	Dollar S. S. Line.....	Owner.
President Hayes.....△	KDLB	do.....	PG	N	do.....	Do.
President Jackson.....△	KDPA	125 (2,400), 143 (2,100), 151 (1,985), 160 (1,875), 375 (800) 425 (705), 500 (600).....	PG	N	Admiral Oriental Line.....	Do.
President Jefferson.....△	KDOT	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600).....	PG	N	do.....	Do.
President Johnson.....△	WCCM	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).....	PG	N	American Foreign S. S. Co.....	Do.
President Lincoln.....△	KDUY	137 (2,190), 143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600).....	PG	N	Dollar S. S. Line.....	Do.
President Madison.....△	KDVR	123 (2,440), 135 (2,222), 143 (2,100), 160 (1,875), 375 (800), 425 (705), 500 (600).....	PG	N	Admiral Oriental Line.....	Do.
President McKinley.....△	KDSL	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600).....	PG	N	do.....	Do.
President Monroe.....△	KDAR	375 (800), 425 (705), 500 (600).....	PG	N	Dollar S. S. Line.....	Do.
President Pierce.....△	KDNV	137 (2,190), 143 (2,100), 151 (1,985), 159 (1,885), 375 (800), 425 (705), 500 (600).....	PG	N	do.....	Do.
President Polk.....△	KDOZ	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,069), 149 (2,015), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).....	PG	N	do.....	Do.
President Roosevelt.....△	KDWS	131 (2,290), 137 (2,190), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).....	PG	N	United States Lines.....	Do.
President Taft.....△	KDRW	125 (2,400), 143 (2,100), 375 (800), 425 (705), 500 (600), 8,450 (35.50), 11,350 (28.43), 16,500 (18.182).....	PG	N	Dollar S. S. Line.....	Do.
President Van Buren.....△	KDHF	375 (800), 425 (705), 500 (600).....	PG	N	do.....	Do.
President Wilson.....△	KDSV	125 (2,400), 131 (2,290), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800) 425 (705), 500 (600).....	PG	N	do.....	Do.
Presque Isle.....△	KFNS	375 (800), 410 (730), 425 (705).....	PG	X	Presque Isle Transpn. Co.....	Do.
Priece McKinney.....△	KDXR	do.....	PG	X	Pioneer S. S. Co.....	Do.
Princess Montagu.....△	WBDO	375 (800), 425 (705), 500 (600).....	PG	X	Florida R. R. & Nav. Corp.....	R. M. C. A.
Princeton.....△	WOCY	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	Standard Shipping Co.....	Do.
Do.....	KDLU	375 (800), 400 (750), 425 (705), 500 (600).....	PG	X	Whitman, Ward & Lee Co.....	Do.

COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Priscilla.....	WRCI	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	New England S. S. Co.....	R. M. C. A.
Providence.....	WRCJ	do.....	PG	X	do.....	Do.
Prusa.....	KELQ	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	Do.
Pueblo.....	KESV	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	Petroleum Navigation Co.	Do.
Puritan.....	WADX	375 (800), 410 (730), 394 (760), 425 (705).....	PG	X	Michigan Transit Corp.	R. C. A.
Quaker City.....	KOZL	375 (800), 425 (705), 500 (600).....	PG	N, X	U. S. S. B.....	R. M. C. A.
Queen.....	WGGR	do.....	PG	N	Pacific S. S. Co.....	R. M. C. A.
Queen Anne.....	WGDD	137 (2,190), 141 (2,130), 143 (2,100), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 469 (640), 500 (600).....	PG	X	Isaac E. Emerson.....	M. R. T. Co. R. M. C. A.
Queen of Scots.....	WGDZ	do.....	PG	X	Anthony J. Drexel, jr.....	Owner.
Quest.....	WTBD	2,740 (109.5), 5,525 (54.3).....	P	X	Wilmington Transpn. Co.....	Do.
Quinault.....	KDND	375 (800), 425 (705), 500 (600).....	PG	X	Hart-Wood Lumber Co.....	Do.
Quincy.....	KFEF	375 (800), 400 (750), 425 (705), 469 (640), 500 (600).....	PG	X	Quincy S. S. Co.....	R. M. C. A.
Quistconck.....	WREI	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	Do.
Radiomarine Corporation of America (general call for all vessels).	WWAA	do.....	PG	X	do.....	Do.
Radnor.....	KJUE	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	Do.
Rajah.....	WNCZ	do.....	PG	X	Munson S. S. Corp.....	Do.
Rawleigh Warner.....	WSCQ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	Sabine Towing Co.....	Do.
Reaper.....	KDLG	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	X	Texas Co.....	Do.
Rebird.....	KFTK	do.....	PG	X	Redbird S. S. Corp.....	Do.
Redman.....	WADZ	375 (800), 425 (705), 500 (600).....	PG	X	Redman S. S. Corp.....	Do.
Redondo.....	WCCX	do.....	PG	N, X	Alaska S. S. Co.....	M. R. T. Co.
Redwood.....	WEDS	375 (800), 400 (750), 425 (705), 500 (600).....	PG	N, X	Pacific American Fisheries Co.....	R. M. C. A.
Relay.....	WLCO	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).....	PG	X	All America Cable Co.....	M. R. T. Co.
Relief.....	WHCZ	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).....	PG	X	Merritt, Chapman & Scott Corp.....	R. M. C. A.
Republic.....	KUBJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	Petroleum Nav. Co.....	Do.
Do.....	WTCW	131 (2,290), 137 (2,190), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).....	PG	N	United States Lines.....	Do.
Republic Lifeboat No. 1.....	KSNA	375 (800), 425 (705), 500 (600).....	PG	X	do.....	Do.
Republic Lifeboat No. 2.....	KSNB	do.....	PG	X	do.....	Do.
Resolute.....	WKCN	do.....	PG	X	Merritt-Chapman & Scott Corp.....	Do.
Resource.....	WIDP	do.....	PG	X	Reno Marine Salvage Co.....	Do.
Restorer.....	WCDB	375 (800), 400 (750), 425 (705), 500 (600).....	PG	N, X	Commercial Pacific Cable Co.....	Do.
Richard Holyoke.....	KFNB	375 (800), 425 (705), 500 (600).....	PG	X	Bellingham Tug & Barge Co.....	Owner.
Richard J. Reiss.....	WADH	375 (800), 410 (730), 425 (705).....	PG	X	Reiss S. S. Co.....	Do.
Richard Peck.....	WRCR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	New England S. S. Co.....	R. M. C. A.
Richfield.....	WKCC	do.....	PG	X	Richfield Oil Co.....	Do.
Richmond.....	WOCF	do.....	PG	X	Standard Oil Co. of California.....	Do.

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COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Samona.....	KGBF	500 (600), 2,740 (109.5)	P	X	W. J. Hole.....	Owner.
Samson.....	KGCY				Diamond "P" Transpn. Co.....	
Samuel L. Fuller.....	KDMS	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sinclair Nav. Co.....	R. M. C. A.
Samuel Mather.....	WPBG	153 (1,960), 143 (2,100), 151 (1,985), 157 (1,910), 155 (1,935), 375 (800), 410 (730), 394 (760), 425 (705)	PG	X	Interlake S. S. Co.....	R. C. A.
Samuel Mitchell.....	WBDC	189 (1,587), 394 (760), 425 (705)	P	X	Huron Transpn. Co.....	Owner.
Samuel Q. Brown.....	KDVO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Tide Water Oil Co.....	R. M. C. A.
San Antonio.....	KUCM	375 (800), 425 (705), 500 (600)	PG	X	South Coast S. S. Co.....	Owner.
San Carlos.....	KZDC	396 (755), 500 (600)	PG	X	Tanon Nav. Co.....	Do.
San Diego.....	KUBF	375 (800), 425 (705), 500 (600)	LG	X	Hart-Wood Lumber Co.....	Do.
Sandmaster.....	KDIW	375 (800), 410 (730), 425 (705)	PG	X	Construction Materials Co.....	Do.
San Francisco.....	WDCY	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	U. S. Steel Products Co.....	R. M. C. A.
San Isidro.....	KZCC	500 (600)	PG	X	Visayan Stevedore Transpn. Co.....	Owner.
San Jacinto.....	WHCI	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Mailory S. S. Co.....	R. M. C. A.
San Jose.....	△ KDAJ	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	NX	United Fruit S. S. Corp.....	T. R. T. Co.
San Juan.....	WPCD	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	N	New York & Porto Rico S. S. Co.....	R. M. C. A.
Do.....	WFDE	375 (800), 425 (795), 500 (600)	PG	N	Los Angeles-San Francisco Nav. Co.....	Owner.
San Lorenzo.....	WFCE	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	N	New York & Porto Rico S. S. Co.....	R. M. C. A.
San Mateo.....	△ KDBE	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705)	PG	X	United Fruit S. S. Corp.....	T. R. T. Co.
San Pedro.....	WDDA	375 (800), 400 (750), 425 (705), 454 (660), 500 (600)	PG	X	Hammond Lumber Co.....	R. M. C. A.
Santa Ana.....	WNCY	425 (705), 500 (600)	PG	X	Santa Ana S. S. Co.....	
Santa Barbara.....	△ WPBT	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Grace S. S. Co.....	Do.
Santa Cecelia.....	WB DW	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do.....	Do.
Do.....	WNCO	do	PG	X	Nautilus S. S. Co.....	Do.
Santa Cruz.....	WMCP	do	PG	N	Atlantic & Pacific S. S. Co.....	Do.
Santa Elisa.....	△ KIGG	do	PG	N	Grace S. S. Co.....	Do.
Santa Eulalia.....	KDDY	375 (800), 425 (705), 500 (600)	PG	X	American & Cuban S. S. Line.....	Do.
Santa Flavia.....	KRUI	do	PG	X	Alaska Fishermans Cooperative Packing Co.....	Do.
Santa Inez.....	WEDU	do	PG	X	Andrew F. Mahoney.....	M. R. T. Co.
Do.....	△ WIDA	143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Grace S. S. Co.....	R. M. C. A.
Santa Isabel.....	KDBV	375 (800), 425 (705), 500 (600)	PG	X	American & Cuban S. S. Line.....	Do.
Santa Maria.....	△ KFTI	137 (2,190), 143 (2,100), 151 (1,985), 159 (1,885), 375 (800), 425 (705), 500 (600)	PG	X	Union Oil Co. of California.....	M. R. T. Co.
Do.....	△ WPBW	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 455 (660), 468 (640), 500 (600)	PG	N	Grace S. S. Co.....	R. M. C. A.

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Santa Marta	△ KDBI	137 (2,190), 141 (2,130), 143 (2,100), 145 (2,069), 147 (2,041), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).	PG	N	United Fruit S. S. Corp.	T. R. T. Co.
Santa Rita	△ WIDG		PG		Grace S. S. Co.	R. M. C. A.
Santa Rosalia	WDCZ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	U. S. Steel Products Co.	Do.
Santa Tecla	KNEE	do	PG	X	New Orleans & South American S. S. Co.	Do.
Santa Teresa	△ WLIA	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Grace S. S. Co.	Do.
Santa Veronica	KDHT	375 (800), 425 (705), 500 (600)	PG	X	American & Cuban S. S. Line	Do.
Santa Domingo	KZDS	500 (600)	PG	X	Visayan Stevedore Transportation Co.	Owner.
Santore	WQCC	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Ore Steamship Corp.	R. M. C. A.
S. A. Perkins	KUTJ	375 (800), 425 (705), 500 (600)	PG	X	James Griffiths & Sons	Do.
Sapinero	KESG	do	PG	X	U. S. S. B.	Do.
Saramacca	△ KDBK	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 468 (640), 500 (600).	PG	N	United Fruit S. S. Corp.	T. R. T. Co.
Sarcocie	WLAA	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Sartartia	KIDC	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Sartartia III	WJDM	5,525 (54.3), 5,525 (54), 8,290 (36.19), 11,050 (27.15), 11,110 (27)	P	X	Benjamin Clayton	Owner.
Sartoco	KQQM	375 (800), 425 (705), 500 (600)	PG	X	Sabine Towing Co.	R. M. C. A.
Saturn	WSBQ	375 (800), 425 (705), 400 (750), 468 (640), 500 (600)	PG	X	Bay State Fishing Co.	Do.
Saugerties	WNCV	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Savarona	△ WPHY	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Emily R. Cadwalader	Do.
Sawokla	KDBW	125 (2,400), 131 (2,290), 137 (2,190), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).	PG	X	U. S. S. B.	Do.
Sayonara	KFVA	375 (800), 425 (705), 500 (600)	PG	X	A. J. Drexel	Owner.
S. B. Coolidge	WBDQ	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.	
S. B. Hunt	△ KIPR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.
S. B. Way	△ WDDP	375 (800), 410 (730), 425 (705)	PG	X	Valley Camp S. S. Co.	
Scantic	KILR	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Schenectady	△ WJFU	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	American Scantic Line (Inc.)	Do.
Schodack	KEVT	do	PG	X	U. S. S. B.	Do.
Schoharie	KEVV	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	South Atlantic S. S. Co.	Do.
Schoodie	KIDQ	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Scottsburg	KOMM	do	PG	X	do	Do.
S. C. T. Todd	△ KDML	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California	Do.
Sea	KFWE	do	PG	X	Bay State Fishing Co.	Do.
Seaborn	KFYX	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600).	PG	X	Richard F. Howc.	M. I. M. C. Co.
Seaforth	KFZQ	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	William J. Matheson	R. M. C. A.
Seagull	KFCW	375 (800), 425 (705), 500 (600)	PG	X	Portland Trawling Co.	Do.
Sea Hawk	WHDA	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	J. J. Kenney	Do.
Sea King	WDDX	375 (800), 425 (705), 500 (600)	PG	X	Shipowners & Merchants Tugboat Co.	Owner.
Sea Lion	KDOJ	do	PG	X	do	Do.
Sea Ranger	KDSQ	do	PG	X	do	Do.
Sea Rover	KGCP	do	PG	X	do	R. M. C. A.
Sea Salvor	KFOM	do	PG	X	do	Owner.
Sea Scout	KDSY	do	PG	X	do	Do.
Sea Thrush	△ WBCW	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Shepard S. S. Co.	R. M. C. A.
Seattle	KISF	375 (800), 425 (705), 500 (600)	PG	X	Tacoma Oriental S. S. Co.	

COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account set- tled by—
Seattle Spirit.....	KISD	575 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	R. M. C. A.
Seaward.....	KFEH	500 (600), 2,609 (115).....	P	X	C. B. De Mille Productions (Inc.).....	Owner.
Sceandbee.....	WTCT	375 (800), 410 (730), 425 (705).....	PG	X	Cleveland & Buffalo Transit Co.....	Do.
Selma City.....	KDRJ	375 (800), 425 (705), 500 (600).....	PG	X	U. S. Steel Products Co.....	R. M. C. A.
Seminole.....	KUGP	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	Do.
Do.....	WNCX	375 (800), 425 (705), 468 (640), 500 (600).....	PG	N	Cherokee-Seminole S. S. Corp.....	Do.
Senator.....	WDDU	375 (800), 410 (730), 425 (705).....	PG	X	Nicholson-Universal S. S. Co.....	Do.
Senator Bailey.....	WJCM	375 (800), 425 (705), 500 (600).....	PG	X	Gulf Refining Co.....	Do.
Seven Seas.....	WJDC	.....	.....	.....	English Uppercu.....	Do.
Severance.....	KXOE	375 (800), 425 (705), 500 (600).....	PG	X	Diamond S. S. Transportation Corp.....	Do.
Sewalls Point.....	WJCW	do.....	PG	X	Mystic S. S. Co.....	Do.
Seyelyn.....	WQBD	4,312 (69.56), 8,625 (34.78).....	P	X	Paul F. Johnson.....	Owner.
Shadow-K.....	KFXT	500 (600), 4,188 (71.63), 8,670 (34.60).....	P	X	Peninsular Terminal Co.....	Do.
Sharon.....	KIRK	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	Atlantic Refining Co.....	R. M. C. A.
Shasta.....	KFKF	375 (800), 425 (705), 500 (600).....	PG	X	E. K. Wood Lumber Co.....	Owner.
Shawnee.....	WOBG	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600).....	PG	N	New York & Miami S. S. Corp.....	R. M. C. A.
Sheldrake.....	KUFK	375 (800), 400 (750), 425 (705), 500 (600).....	PG	X	Portland Trawling Co.....	Do.
Shelton.....	KDIJ	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600).....	PG	X	Tacoma Oriental S. S. Co.....	Do.
Shenandoah.....	KIBD	375 (800), 425 (705), 500 (600).....	PG	X	Texas Co.....	Do.
Shenango.....	WJDB	375 (800), 394 (760), 410 (730), 425 (705).....	PG	X	Shenango Furnace Co.....	R. C. A.
Do.....	WGDP	375 (800), 425 (705), 500 (600).....	PG	X	Gulf Refining Co.....	R. M. C. A.
Shickshinny.....	KIZP	do.....	PG	X	South Atlantic S. S. Co.....	Do.
Shipping Board vessels (general call for all vessels).	KSBV	.....	PG	X	U. S. S. B.....	Do.
Sialia.....	WBDI	137 (2,190), 143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600).....	PG	X	A. M. Andrews.....	Do.
Sihoney.....	WEZC	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	X	New York & Cuba Mail S. S. Co.....	Do.
Sidney M. Hauptman.....	KUVD	375 (800), 410 (750), 425 (705), 454 (660), 500 (600).....	PG	X	Chas. R. McCormick Lumber Co.....	Do.
Sierra.....	WBDR	137 (2,190), 143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600).....	PG	X	Oceanic S. S. Co.....	M. R. T. Co.
Do.....	WKCM	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	X	Arctic Transport Co.....	R. M. C. A.
Silverado.....	KFKI	375 (800), 425 (705), 500 (600).....	PG	X	Silverado S. S. Co.....	Owner.
Silveroak.....	KOIG	do.....	PG	X	Clegg Shipbuilding Corp.....	R. M. C. A.
Silverspruce.....	KIGZ	do.....	PG	X	do.....	Do.
Sinloa.....	WGDC	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 145 (2,070), 149 (2,015), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (650), 468 (640), 500 (600).....	PG	X	L. E. Hanchett.....	Do.
Sirius.....	KZAH	500 (600).....	PG	X	Madrigal & Co.....	Owner.
Siskiyou.....	KDAS	375 (800), 425 (705), 500 (600).....	PG	X	E. K. Wood Lumber Co.....	Do.



COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station
KDGG	Bayou Chico.....b	KDLN	Henry S. Grove.....b
KDGL	Steel Ranger.....b	KDLO	Tuscaloosa City.....b
KDGN	Donna Lane.....b	KDLS	Sugillenco.....b
KDGO	Clement Smith.....b	KDLT	George Peirce.....b
KDQQ	Elisha Walker.....b	KDLU	Princeton.....b
KDGS	City of Rayville.....b	KDLW	Herman Frasch.....b
KDGV	William Penn.....b	KDLX	Mary Luckenbach.....b
KDGW	China Arrow.....b	KDMA	Eugene V. R. Thayer.....b
KDGY	Kekoskee.....b	KDMB	Cities Service Petrol.....b
KDGZ	Nora.....b	KDMC	Agwimars.....b
KDHI	Third Radio Zone (portable).....fx	KDMD	Agwiworld.....b
KDHA	Surichco.....b	KDMG	Estrada Palma.....b
KDHB	Suremleo.....b	KDMH	Memnon.....b
KDHC	Harvester.....b	KDML	S. C. T. Dodd.....b
KDHD	Edgar F. Coney.....b	KDMN	John Worthington.....b
KDHF	President Van Buren.....b	KDMO	ZR-3.....b
KDHI	Charles H. Cramp.....b	KDMP	W. H. Libby.....b
KDHI	Intrepid.....b	KDMQ	President Harrison.....b
KDIJ	Bibbco.....b	KDMR	W. S. Miller.....b
KDIK	Yapalaga.....b	KDMS	Samuel L. Fuller.....b
KDIL	Argosy.....b	KDMT	Joseph M. Cudahy.....b
KDIO	Japan Arrow.....b	KDMU	Wichita.....b
KDIP	India Arrow.....b	KDMV	City of Elwood.....b
KDIQ	Java Arrow.....b	KDMZ	District of Columbia.....b
KDIR	J. Fletcher Farrell.....b	KDND	Quinault.....b
KDIS	Wm. Boyce Thompson.....b	KDNE	Erarch.....b
KDIT	Santa Veronica.....b	KDNG	Swiftsure.....b
KDIU	Chilco.....b	KDNH	Makawao.....b
KDIY	Malang.....b	KDNI	Sunewarcko.....b
KDID	Oduana.....b	KDNK	M. F. Elliott.....b
KDIF	Hanley.....b	KDNN	Agwilake.....b
KDIG	Narbo.....b	KDNO	Gulfling.....b
KDIH	Narcissus.....b	KDNP	City of Dalhart.....b
KDIJ	Shelton.....b	KDNR	Lake Miraflores.....b
KDIK	West Cussetta.....b	KDNS	Yorba Linda.....b
KDIN	Oakwood.....b	KDNV	President Pierce.....b
KDIP	Vaba.....b	KDNX	Suntugentco.....b
KDIQ	Cedarhurst.....b	KDNY	Favorita.....b
KDIS	Cascade.....b	KDNZ	Gorgona.....b
KDIT	C. D. Johnson III.....b	KDOB	Ala.....b
KDIV	Olympic.....b	KDOD	Livingstone Roo.....b
KDIW	Sandmaster.....b	KDOF	Bessemer City.....b
KDIY	Texada.....b	KDOH	Crampton Anderson.....b
KDJ	Daly, Alaska.....fx	KDOJ	Sea Lion.....b
KDJF	Vittorio Emmanuele III.....b	KDOK	Albert E. Watts.....b
KDJG	Pacific Redwood.....b	KDOL	F. C. Latrobe.....b
KDJH	Jane Christenson.....b	KDOM	Annapolis.....b
KDJJ	Nipsic.....b	KDOO	Richmond.....b
KDK	Yalza.....b	KDOR	Thomas H. Wheeler.....b
KDKL	Steel Inventor.....b	KDOS	Swift Arrow.....b
KDKO	Oneida.....b	KDOT	President Jefferson.....b
KDKR	Onondaga.....b	KDOV	America.....b
KDKS	Chippewa.....b	KDOZ	President Polk.....b
KDJV	Joseph Secp.....b	KDP	Chomly, Alaska.....fx
KDJY	Natchez.....b	KDPA	President Jackson.....b
KDJZ	Montgomery City.....b	KDPC	Suspearco.....b
KDKB	Eastern Sword.....b	KDPE	Gargoyle.....b
KDKG	William H. Doheny.....b	KDPG	Liebre.....b
KDKH	Algonquin.....b	KDPK	Franklin.....b
KDKI	Tachira.....b	KDPL	Walter Jennings.....b
KDKK	Minnekahda.....b	KDPO	Agwistone.....b
KDKL	Camden.....b	KDPQ	Herman Falk.....b
KDKM	Natirar.....b	KDPR	Montebello.....b
KDKR	Warbler.....b	KDPX	La Placentia.....b
KDKS	Willet.....b	KDPY	Fairfield City.....b
KDEX	W. J. Hanna.....b	KDQR	Ward.....b
KDKY	Peacock.....b	KDQD	E. R. Kemp.....b
KDL	Seventh Radio District (portable).....fx	KDQE	Galveston.....b
KDLA	Charlie Watson.....b	KDQF	Jeff Davis.....b
KDLB	President Hayes.....b	KDQG	Oldham.....b
KDLC	W. D. Anderson.....b	KDQH	Meanticut.....b
KDLD	Suwarinco.....b	KDQI	Kentucky.....b
KDLE	Suwordenco.....b	KDQJ	Solana.....b
KDLF	Sujameco.....b	KDQL	Sucubaco.....b
KDLG	Resper.....b	KDQM	Aladdin.....b
KDLH	Franklin K. Lane.....b	KDQR	John C. Kirkpatrick.....b
KDLJ	Artemis.....b	KDQS	Cerro-Ebano.....b
KDLL	A. L. Kent.....b	KDQT	Munawill.....b
KDLM	Wacosta.....b	KDQV	Swift Scout.....b

## COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station		
KDQW	Cairo.....	b	KDUZ	O. S. McFarland.....	b
KDQX	St. Louis.....	b	KDV	Third Radio Zone (portable).....	fx
KDQY	Cerro Azul.....	b	KDVD	Levant Arrow.....	b
KDQZ	Frank G. Drum.....	b	KDVE	Robert E. Hopkins.....	b
KDR	Ruby (permanently moored vessel)....	fx	KDVF	Adam E. Cornelius.....	b
KDRB	Gulfprince.....	b	KDVH	Golden Dragon.....	b
KDRC	California.....	b	KDVI	Wm. Rockefeller.....	b
KDRD	R. J. Hanna.....	b	KDVJ	La Purisima.....	b
KDRE	K. R. Kingsbury.....	b	KDVK	F. H. Hillman.....	b
KDRJ	Selma City.....	b	KDVL	Birkenhead.....	b
KDRK	Swifteagle.....	b	KDVM	H. T. Harper.....	b
KDRL	President Adams.....	b	KDVN	Steel Seafarer.....	b
KDRM	Henry D. Whiton.....	b	KDVO	Samuel Q. Brown.....	b
KDRN	E. W. Sinclair.....	b	KDVP	Narwhal.....	b
KDRP	Suphenco.....	b	KDVR	President Madison.....	b
KDRQ	Manulani.....	b	KDVS	G. N. Wilson.....	b
KDRR	Delphine.....	b	KDVT	Dixie Arrow.....	b
KDRT	Cuba.....	b	KDVV	H. M. Storey.....	b
KDRV	Maunalei.....	b	KDVW	Steel Scientist.....	b
KDRW	President Taft.....	b	KDVX	Baton Rouge.....	b
KDRX	Gulfpenn.....	b	KDVK	Memphis.....	b
KDRZ	Tulsagas.....	b	KDVZ	Centurion.....	b
KDSA	Swiftlight.....	b	KDWA	Clifford F. Moll.....	b
KDSB	E. T. Bedford.....	b	KDWB	John J. Boland.....	b
KDSC	Vicksburg.....	b	KDWC	New Jersey.....	b
KDSD	Jane Nettleton.....	b	KDWF	All America.....	b
KDSF	Manukai.....	b	KDWG	Asher J. Hudson.....	b
KDSG	Anniston City.....	b	KDWH	Munargo.....	b
KDSH	Mojave.....	b	KDWI	Equator.....	b
KDSI	Swiftwind.....	b	KDWK	President Harding.....	b
KDSL	President McKiuley.....	b	KDWL	Steel Navigator.....	b
KDSM	Nashaba.....	b	KDWN	Byron D. Benson.....	b
KDSO	Lio.....	b	KDWP	W. S. Rheem.....	b
KDSP	Dixiano.....	b	KDWW	Delaware Sun.....	b
KDSQ	Sea Ranger.....	b	KDWS	President Roosevelt.....	b
KDSR	William F. Humphrey.....	b	KDWU	Fortuna.....	b
KDSS	W. W. Mills.....	b	KDWW	Arbutus.....	b
KDSU	Toteco.....	b	KDWW	Bethore.....	b
KDSV	President Wilson.....	b	KDWX	Diana Dollar.....	b
KDSW	Atlanta City.....	b	KDWW	Federal.....	b
KDSX	Golden Hind.....	b	KDWZ	Pan America.....	b
KDSY	Sea Scout.....	b	KDX	Third Radio Zone (portable).....	fx
KDSZ	Illinois.....	b	KDXD	Stuart Dollar.....	b
KDTB	Bohemian Club.....	b	KDXG	Daniel Kern.....	b
KDTC	President Garfield.....	b	KDXI	Melville Dollar.....	b
KDTD	David McKelvy.....	b	KDXJ	G. A. Tomlinson.....	b
KDTE	Paul Shoup.....	b	KDXK	F. R. Hazard.....	b
KDTF	Betty R.....	b	KDXL	John S. Manuel.....	b
KDTG	Yankee Arrow.....	b	KDXM	Frank Billings.....	b
KDTI	Alder.....	b	KDXN	A. D. Macbeth.....	b
KDTJ	Emidio.....	b	KDXP	Amazon.....	b
KDTM	American Legion.....	b	KDXQ	A. A. Augustus.....	b
KDTN	Lebec.....	b	KDXR	Price McKinney.....	b
KDTO	Thomas P. Beal.....	b	KDXS	W. D. Calverley, jr.....	b
KDTP	J. N. Paw.....	b	KDXT	John Stanton.....	b
KDTR	Memphis City.....	b	KDXU	Joseph G. Butler, jr.....	b
KDTT	Adler.....	b	KDXV	J. J. Sullivan.....	b
KDTU	J. A. Moffett, jr.....	b	KDXW	James P. Walsh.....	b
KDTV	Greylock.....	b	KDXY	Martin Mullen.....	b
KDTW	Tustem.....	b	KDXZ	William A. Paino.....	b
KDZ	Southern Cross.....	b	KDYB	Spray.....	b
KDU	Point Reyes, Calif. (Bolinas).....	fx	KDYI	Western World.....	b
KDUB	Harry Yates.....	b	KDYJ	Meteor.....	b
KDUC	Lubrico.....	b	KDYT	Moody.....	b
KDUD	Knoxville City.....	b	KDYY	General call for all vessels controlled by Cleveland Cliffs S. S. Co.....	b
KDUG	Empire Arrow.....	b	KDYZ	Dolphin.....	b
KDUH	Louis R. Davidson.....	b	KDZC	Theodore H. Wickwire.....	b
KDUJ	William T. Roberts.....	b	KDZN	Calcite.....	b
KDUK	Golden Sun.....	b	KDZO	Marore.....	b
KDUL	Theodore H. Wickwire, jr.....	b	KDZV	Pacific.....	b
KDUM	John D. Archbold.....	b	KEA	Seldovia, Alaska Radio.....	fc, fx
KDUP	Guinevero.....	b	KEB	Bolinas, Calif.....	fx
KDUQ	Gulfwax.....	b	KEBD	Abron.....	b
KDUR	T. J. Williams.....	b	KEBF	Edgefield.....	b
KDUT	President Grant.....	b	KEBM	Lake Giltedge.....	b
KDUV	Margaret Dollar.....	b	KEBQ	Golden Cross.....	b
KDUW	Chattanooga City.....	b	KEBZ	Exporter.....	b
KDUX	Thomas Britt.....	b	KECB	Edenton.....	b
KDUY	President Lincoln.....	b	KECR	West Tacook.....	b

COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station
KECS	Duquesne..... b	KETP	Edgemont..... b
KECK	West Imboden..... b	KEU	Los Angeles, Calif..... fx, fa
KED	Siasi, P. I., radio (Sulu)..... fc	KEV	Cagayan de Sulu, P. I., radio (Sulu)..... fc
KEDN	Baracoa..... b	KEVD	West Corum..... b
KEDQ	West Maximus..... b	KEVF	Edgemoor..... b
KEDR	Willwello..... b	KEVG	Eldena..... b
KEDT	West Quechee..... b	KEVM	Nishmaha..... b
KEDV	West Nosska..... b	KEVR	Hartwood..... b
KEDX	West Hardaway..... b	KEVT	Schodack..... b
KEE	Bolinas, Calif..... fx	KEVV	Schoharie..... b
KEEB	Sac City..... b	KEW	Bulabac, P. I., radio (Palawan)..... fc
KEFC	Exford..... b	KEXB	McKeesport..... b
KEFR	Ossining..... b	KEXG	West Nohno..... b
KEPT	Explorer..... b	KEXJ	Golden Forest..... b
KEFX	West Harshaw..... b	KEXK	West Totant..... b
KEFZ	Texas..... b	KEXM	Wisconsin..... b
KEG	Vancouver, Wash..... fx	KEXN	Lara..... b
KEGC	Bristol..... b	KEXQ	J. L. Luckenbach..... b
KEGF	Eclipse..... b	KEXT	Peter H. Crowell..... b
KEGM	Dirigo..... b	KEXV	Beaconhill..... b
KEGS	Michigan..... b	KEXX	Golden Bear..... b
KEH	Panhandle City, Tex..... fx	KEXZ	Glymont..... b
KEI	Bolinas Calif..... fx	KEY	Dundas, Alaska..... fc, fx
KEJ	do..... fx	KEZ	Bolinas, Calif..... fx
KEJD	Easterling..... b	KEZJ	Oneida..... b
KEJF	Western Ally..... b	KEZM	West Harecuar..... b
KEJP	Lake Faulk..... b	KEZN	Pacific Oak..... b
KEJS	West Amargosa..... b	KEZP	West Hematite..... b
KEJX	Transportation..... b	KEZR	West Celina..... b
KEK	Hillsboro, Oreg., radio (Portland)..... fc	KFA	Annette Island, Alaska Radio..... fc, fx
KEKC	Norrna..... b	KFAG	Bayonne..... b
KEKD	West Cobalt..... b	KFAL	Dolly C..... b
KEKL	Saguache..... b	KFAO	Glendoyle..... b
KEKN	Lake Fanquier..... b	KFBO	Ara..... b
KEKQ	Arlyn..... b	KFBW	Tamarack IV..... b
KEK	Bolinas, Calif..... fx	KFBX	Stephen M. Clement..... b
KELD	Albatross..... b	KFC	Pybus Bay, Alaska..... fx
KELK	Golden Kauri..... b	KFCG	Steeleore..... b
KELM	Munami..... b	KFCI	Steel Traveler..... b
KELO	Prusa..... b	KFCJ	Hugh Kennedy..... b
KEM	Bolinas, Calif..... fx	KFCN	James MacNaughton..... b
KEMJ	Panay..... b	KFCS	Walucia III..... b
KEMK	Hoxie..... b	KFCF	George F. Rand..... b
KEML	Jacox..... b	KFCW	Sea Gull..... b
KEMN	Muncove..... b	KFCX	Fisher..... b
KEMP	Covena..... b	KFD	Tenakee, Alaska..... fx
KEMT	Tavernilla..... b	KFDG	Petrel..... b
KEMZ	Ballenas..... b	KFDI	Goliath..... b
KEN	Bolinas, Calif..... fx	KFDT	Caluwall..... b
KEND	Triumph..... b	KFDW	Gulfbreeze..... b
KENK	West Modus..... b	KFE	Poneca City, Okla..... fx
KENM	Mahukona..... b	KFEA	Trader..... b
KENQ	Sulphite..... b	KFEF	Quincy..... b
KENR	Itompa..... b	KFEG	Frank H. Goodyear..... b
KENS	Chilbar..... b	KFEI	Seaward..... b
KENV	Ballecamp..... b	KFEJ	John A. Kling..... b
KENX	Bafshe..... b	KFES	City of Holland..... b
KEO	Bongao, P. I., radio (Sulu)..... fc	KFET	City of Saugatuck..... b
KEPF	Mercer..... b	KFEU	Haleakala..... b
KEPR	Sahale..... b	KFEW	North King..... b
KEPT	Saco..... b	KFF	No. 13 (portable)..... fx
KEPV	Wallingford..... b	KFFC	Pennsylvania Sun..... b
KEQ	Kahuku, Hawaii..... fx	KFFG	Elmore..... b
KER	Bolinas, Calif..... fx	KFFN	Chilkat..... b
KERJ	Diamond Head..... b	KFG	No. 14 (portable)..... fx
KERM	Mayan..... b	KFGA	Alleghany..... b
KERT	Malacca..... b	KFGE	F. A. Douty..... b
KERX	Aurora..... b	KFGI	Good Will..... b
KERZ	Cecil County..... b	KFGK	Leroy..... b
KES	Bolinas, Calif..... fx	KFGS	Whitney Olson..... b
KESC	Sacadaga..... b	KFGT	Waimea..... b
KESD	Hamlin F. McCormick..... b	KFGU	George L. Olson..... b
KESG	Sapinero..... b	KFGV	Dickenson..... b
KESQ	Bidwell..... b	KFHN	Loosevelt..... b
KESR	Hampton Roads..... b	KFHW	Poinsettia..... b
KESV	Pueblo..... b	KFIE	Berkshire..... b
KESX	Warwick..... b	KFIF	Francis E. Powell..... b
KET	Bolinas, Calif..... fx	KFIH	Joseph D. Wood..... b
KETG	Braddock..... b	KFIM	Alaska..... b
KETN	Edgehill..... b	KFIN	Tillicum..... b



## COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call sig- nal	Station	Call sig- nal	Station
KFIR	Empire.....b	KFSK	Leopold Adler.....b
KFIS	City of Grand Rapids.....b	KFSM	G. J. Grammer.....b
KFIT	City of St. Joseph.....b	KFSO	Beatrice.....b
KFIW	Chilore.....b	KFSQ	Tusitola.....b
KFJ	Saginaw Bay, Alaska.....fc, fx	KFSS	Standard Service.....b
KFJG	Wanderer.....b	KFST	Michael Gallagher.....b
KFJS	Westerly.....b	KFSW	W. H. Becker.....b
KFJT	W. G. Pollock.....b	KFSX	Warrior.....b
KFK	Main base (Byrd Expedition).....fc, fx	KFT	Everett, Wash., radio.....fc, fx
KFKF	Shasta.....b	KFTB	Morris S. Tremaine.....b
KFKG	Lassen.....b	KFTC	Benson Ford.....b
KFKI	Silverado.....b	KFTD	Henry Ford II.....b
KFKJ	Fred G. Hartwell.....b	KFTH	Jessie Fay.....b
KFKK	Comber.....b	KFTI	Santa Maria.....b
KFKM	Ocean.....b	KFTJ	Alaska Standard.....b
KFKN	Ripple.....b	KFTK	Redbird.....b
KFKO	Spray.....b	KFTN	Henry P. Werner.....b
KFKP	Agwipond.....b	KFTO	George H. Ingalls.....b
KFKR	Catherine G. Sudden.....b	KFTP	Catalina.....b
KFKS	Tide.....b	KFTR	Glacier.....b
KFKT	White Cap.....b	KFTS	Frank Seither.....b
KFKW	Spray III.....b	KFTT	John A. Donaldson.....b
KFL	Underwood, Wash. (near).....fx	KFTW	Fontana.....b
KFLF	Ripple.....b	KFU	Alameda, Calif.....fx
KFLJ	Frontenac.....b	KFUA	William Nelson.....b
KFLK	B. H. Taylor.....b	KFUB	E. G. Mathiott.....b
KFLM	Ishpeming.....b	KFUE	Foam.....b
KFLN	Michigan.....b	KFUG	Thalassa.....b
KFLO	Peter White.....b	KFUH	Kaimiloa.....b
KFLT	Iowa.....b	KFV	Los Angeles, Calif. (portable).....fx
KFM	Sacramento, Calif.....fa, fx	KFVA	Sayonara.....b
KFMC	Illinois.....b	KFVM	Idalia.....b
KFMD	Gulfport.....b	KFVT	Eloise.....b
KFME	Birmingham.....b	KFVV	General call for all vessels of Alaska Packers Assn.....b
KFMF	Cordova.....b	KFWE	Sea.....b
KFMG	Demopolis.....b	KFWG	John Cudaby.....b
KFMI	Tuscaloosa.....b	KFWJ	Gallivant.....b
KFMJ	Mobile.....b	KFWW	General call for all vessels of Isthmian S. S. Co. (U. S. Steel Products Co.).....b
KFMK	Pioneer.....b	KFWX	Susan A. Moran.....b
KFML	Pontiac.....b	KFX	Zachar Bay, Alaska.....fc
KFMN	Douglas.....b	KFXA	Chickamauga.....b
KFMV	John W. Boardman.....b	KFXG	John A. Topping.....b
KFN	Lehore.....b	KFXI	Wynoka.....b
KFNA	Tiger.....b	KFXK	Charles C. West.....b
KFNB	Cape Chacon, Alaska.....fc, fx	KFXP	Tyee.....b
KFNE	Grand Island.....b	KFXQ	J. A. Campbell.....b
KFNF	Richard Holyoke.....b	KFXT	Shadow K.....b
KFNG	Elia.....b	KFXU	Billow.....b
KFNM	Angeline.....b	KFXX	General call for all vessels of Gulf Re- fining Co.....b
KFNN	Cadillac.....b	KFZZ	Breaker.....b
KFNO	Steelmotor.....b	KFY	No. 15 (portable).....fx
KFNP	Marquette.....b	KFYB	Wave.....b
KFNQ	Monising.....b	KFYC	Norco.....b
KFNR	Negaunee.....b	KFYE	Oceanus.....b
KFNS	Presque Isle.....b	KFYL	Thomas Tracy.....b
KFNT	Robert J. Paisley.....b	KFYR	Brandon.....b
KFNU	J. E. Savage.....b	KFYU	Louise.....b
KFNW	Steelevendor.....b	KFYQ	Gloucester.....b
KFO	Oakland, Calif.....fa, fx	KFYU	Mohawk.....b
KFOE	Star of England.....b	KFYY	Seaborn.....b
KFOK	Star of Alaska.....b	KFYZ	General call for all vessels of Bay State Fishing Co.....b
KFOM	Sea Salvor.....b	KFZD	Walucia.....b
KFOW	William K. Field.....b	KFZE	Arminda.....b
KFP	Todd, Alaska.....fx	KFZF	Pawnee.....b
KFPA	Fire Boat No. 31.....b	KFZI	Torrent.....b
KFPC	Fire Boat No. 44.....b	KFZJ	Oritani.....b
KFPD	Fire Boat No. 47.....b	KFZL	Ormes.....b
KFPE	El Paso.....b	KFZZ	Arcadia.....b
KFPI	Capt. John W. McKie.....b	KFZO	Caroline.....b
KFPK	Lieut. Col. Robert G. Gildart.....b	KFZQ	Seaforth.....b
KFQ	Port Graham, Alaska.....fc, fx	KFZR	Margaret F. Sterling.....b
KFR	Cedar Falls, Wash.....fx	KFZS	Josephine.....b
KFRS	Manistique.....b	KFZT	Mizpah.....b
KFS	Palo Alto, Calif., radio (near).....fc	KFZU	Mary Pinchot.....b
KFSA	Alex B. Uhrig.....b	KFZV	Hussar.....b
KFSC	Kadiak.....b	KFZW	Steel Chemist.....b
KFSE	Edward L. Shea.....b		
KFSH	Utowana.....b		
KFSI	John G. Munson.....b		
KFSJ	L. D. Potter.....b		



COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station		
KFZX	Steel Electrician.....	b	KGJA	San Diego, Calif.....	fx
KFZY	Gulcrest.....	b	KGJB	Indio, Calif.....	fx
KGAA	Aras.....	b	KGJC	Lodi, Calif.....	fx
KGAB	E. M. Clark.....	b	KGJD	Santa Rosa, Calif.....	fx
KGAC	E. J. Sadler.....	b	KGJE	Santa Maria, Calif.....	fx
KGAE	Henry G. Dalton.....	b	KGJG	Modesto, Calif.....	fx
KGAF	Sultana.....	b	KGJH	Marysville, Calif.....	fx
KGAN	Chatham.....	b	KGJI	Fresno, Calif.....	fx
KGAP	Sonora.....	b	KGJJ	San Francisco, Calif.....	fc
KGAQ	Ouananiche.....	b	KGJK	Jeanette E.....	b
KGAS	Lagoda.....	b	KGJL	Third Radio Zone No. 47 (portable).....	fx
KGAT	Marj III.....	b	KGJM	Third Radio Zone No. 46 (portable).....	fx
KGAV	John R. Williams.....	b	KGJN	Third Radio Zone No. 45 (portable).....	fx
KGAW	Haligonian.....	b	KGJO	Third Radio Zone No. 44 (portable).....	fx
KGAX	Foss No. 21.....	b	KGJP	Third Radio Zone No. 43 (portable).....	fx
KGAY	Yarmouth.....	b	KGJQ	Third Radio Zone No. 42 (portable).....	fx
KGAZ	Evangeline.....	b	KGJR	Phoenix, Ariz.....	fa, fx
KGBA	Salmon King.....	b	KGJS	San Diego, Calif.....	fa, fx
KGBB	Ungava.....	b	KGJT	Mills Field (San Bruno), Calif.....	fa, fx
KGBF	Samona.....	b	KGJU	El Paso, Tex.....	fa, fx
KGBG	Dorchester.....	b	KGJV	Rogers Field (Los Angeles), Calif.....	fa, fx
KGBH	La Merced.....	b	KGJW	Brownsville, Tex.....	fa, fx
KGBI	Brooks-Scanlon.....	b	KGKA	El Paso, Tex.....	fa, fx
KGBJ	John N. Stewart.....	b	KGKC	Phoenix, Ariz.....	fa, fx
KGBK	Bohemia.....	b	KGKD	Santa Maria, Calif.....	fa, fx
KGBN	Madison.....	b	KGKE	Texas and Louisiana (portable).....	fa, fx
KGBO	Elton Hoyt II.....	b	KGL	Port Hobron, Alaska.....	fc
KGBP	David P. Thompson.....	b	KGMM	General call for all vessels the radio stations of which are operated by M. R. T. Co.....	b
KGBQ	Alden A. Mills.....	b	KGN	North Bend, Oreg., radio.....	fc
KGBR	Louis M. Winslow.....	b	KGP	Wake, Alaska.....	fc, fx
KGBV	Maurice Tracy.....	b	KGPT	General call for all vessels of Portland Trawling Co.....	b
KGCC	Wm. A. Lydon.....	b	KGQ	San Francisco, Calif.....	fx
KGCE	Fairfax.....	b	KGR	Seattle, Wash.....	fx
KGCF	Sumar.....	b	KGS	Honolulu, Hawaii.....	fx
KGCG	Oceania Vance.....	b	KGSA	Williams, Ariz.....	fx
KGCH	Hilda.....	b	KGSB	Oakland, Calif.....	fx, fa
KGCP	Sea Rover.....	b	KGSC	Oklahoma City, Okla.....	fx
KGCG	Sunoco.....	b	KGSD	Albuquerque, N. Mex.....	fx
KGCV	The Old Timer No. 3.....	b	KGSE	Amarillo, Tex.....	fx
KGCW	Fan Kwai.....	b	KGSF	Tucson, Ariz.....	fx
KGCY	Samson.....	b	KGSF	Flagstaff, Ariz.....	fx
KGDC	Sphinx.....	b	KGSH	Yuma, Ariz.....	fx
KGDD	Charles G. Black.....	b	KGSI	Phoenix, Ariz.....	fx
KGDF	Ervina V.....	b	KGSJ	Austin, Tex.....	fx
KGDG	Absaroka.....	b	KGSK	Dallas, Tex.....	fx
KGDH	Western Queen.....	b	KGSL	Del Rio, Tex.....	fx
KGDL	Algonquin.....	b	KGSM	El Paso, Tex.....	fx
KGDN	Cottoneva.....	b	KGSN	Fort Worth, Tex.....	fx
KGDP	Faith.....	b	KGSO	Houston, Tex.....	fx
KGDS	Vigilant.....	b	KGSP	Lordsburg, N. Mex.....	fx
KGDT	Jezebel.....	b	KGSQ	Marfa, Tex.....	fx
KGDV	Four Winds.....	b	KGSR	Pueblo, Colo.....	fx
KGDW	Bering.....	b	KGST	San Antonio, Tex.....	fx
KGDY	Bonnie Brook.....	b	KGST	St. Louis, Mo.....	fx
KGE	Medford, Oreg.....	fx, fa	KGST	Sweetwater, Tex.....	fx
KGER	Milton S. Patrick.....	b	KGSV	Wichita Falls, Tex.....	fx
KGEC	D. M. Renton.....	b	KGSW	Muskogee, Okla.....	fx
KGEG	Northern Light.....	b	KGSX	San Diego, Calif.....	fx
KGEH	Gulf Pride.....	b	KGSZ	Barstow, Calif.....	fx
KGEP	Astoria.....	b	KGT	Ashfork, Ariz.....	fx
KGEF	Candle, Alaska.....	fx	KGTA	Fresno, Calif.....	fx, fa
KGEF	Crusader.....	b	KGTB	Hollbrook, Ariz.....	fx
KGFD	Iroquois.....	b	KGTC	Gallup, N. Mex.....	fx
KGFE	L. E. Block.....	b	KGTD	Clovis, N. Mex.....	fx
KGFG	A. & P. Nakeen No. 7.....	b	KGTE	Wichita, Kans.....	fx
KGFF	Theodore Roosevelt.....	b	KGTF	Needles, Calif.....	fx
KGFG	Yoteda.....	b	KGTG	Winslow, Ariz.....	fx
KGG	Heeeta Island, Alaska.....	fc, fx	KGTH	Kansas City, Mo.....	fx
KGGE	Chilcop.....	b	KGTI	Salt Lake City, Utah.....	fx
KGGH	Lake Louise.....	b	KGTJ	Los Angeles, Calif.....	fx
KGGI	Iolanthe.....	b	KGTJ	Las Vegas, Nev.....	fx
KGGJ	Iroquois.....	b	KGTK	San Francisco, Calif. (Mills Field).....	fa
KGH	Hillshoro, Oreg.....	fx	KGTL	Kingman, Ariz.....	fx
KGI	Kabuku, Hawaii (Oahu Station).....	fx	KGTF	Los Angeles, Calif.....	fx
KGIN	Chatham, Alaska.....	fc, fx	KGX	No. 10 (portable).....	fx
KGIP	Hydaburg, Alaska.....	fx	KGZ	General call for all vessels of the Atlantic Refining Co.....	b
KGIS	Excursion Inlet, Alaska.....	fc, fx	KQZZ		
KGIT	Prince of Wales Island, Alaska.....	fx			
KGJ	Santa Cruz Island, Calif.....	fx			

## COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station
KHA	Uvak, Alaska.....fc, fx	KIKM	Cuzco.....b
KHB	Kvichak, Alaska.....fx	KIKQ	Ambridge.....b
KHC	Chienik, Alaska.....fc, fx	KIKR	Clairton.....b
KHD	Quadra, Alaska.....fc, fx	KIKT	Evansville.....b
KHE	Mazama (permanently moored vessels at Herendeen Village, Alaska).....fx	KIKX	Golden Rod.....b
KHF	Snag Point, Alaska.....fc, fx	KIL	Jolo, P. I., radio (Jolo Island).....fc
KHG	Clarks Point, Alaska.....fx	KILF	Filmsport.....b
KHI	Port Armstrong, Alaska.....fc, fx	KILJ	Grays Harbor.....b
KHK	Wahaiwa, Hawaii, radio (Island of Oahu).....fc	KILK	Colorado Springs.....b
KHL	Wailuku, Hawaii.....fx	KILP	Olympia.....b
KHM	Lihue, Hawaii (Island of Kauai).....fx	KILR	El Capitan.....b
KHN	Kawaihae, Hawaii.....fx	KILT	Seantic.....b
KHO	Kaunakakai, Hawaii (Island of Molokai).....fx	KILT	West Calumb.....b
KHP	Fifth Radio Zone (portable).....fx	KILZ	Inswich.....b
KHR	Santa Barbara, Calif.....fx	KIM	West Cawthon.....b
KHS	Fifth Radio Zone (portable).....fx	KIMC	Latouche, Alaska, radio.....fc, fx
KHT	Naknek, Alaska.....fc, fx	KIMD	Tripp.....b
KHU	Warren, Alaska.....fx	KIME	Deerlodge.....b
KHV	Uvak, Alaska.....fx	KIMG	West Chotac.....b
KHW	Fifth Radio Zone (portable).....fx	KIMN	Salvation Lass.....b
KHY	Scow No. 5 (moored vessel near Nushagak, Alaska).....fc	KIMQ	East Side.....b
KHZ	Fifth Radio Zone (portable).....fx	KIMR	Dochet.....b
KIB	Third Radio Zone (portable).....fx	KIMS	Alpha.....b
KIBD	Shenaneeah.....b	KIMT	Mount Evans.....b
KIBF	Malama.....b	KIMX	Orinoco.....b
KIBQ	Exminster.....b	KIMZ	Pipestone County.....b
KIC	Third Radio Zone (portable).....fx	KINR	Ogoniz.....b
KICM	Edgewood.....b	KIND	Falcon.....b
KICN	Tacoma.....b	KING	Watertown.....b
KICP	Yorkmar.....b	KINJ	Munleon.....b
KICQ	West Isleta.....b	KINM	Lehigh.....b
KICR	Barreado.....b	KINN	Everett.....b
KICS	Zarembo.....b	KINP	Charles Christenson.....b
KIDC	Satartia.....b	KINQ	Eelbeck.....b
KIDF	Hegira.....b	KINR	Berurv.....b
KIDQ	Schoodic.....b	KIO	Kahuku, Hawaii.....fx
KIDR	Romulus.....b	KIPG	Dovlestown.....b
KIDT	Barrallton.....b	KIPI	West Chafala.....b
KIDX	Waukegan.....b	KIPK	West Segovia.....b
KIDZ	Orleans.....b	KIPR	S. B. Hunt.....b
KIE	Kahuku, Hawaii.....fx	KIPS	Geo. H. Jones.....b
KIF	Davao, P. I., radio (Mindanao Island).....fc	KIPT	Edna.....b
KIFB	West Irmo.....b	KIPV	Excello.....b
KIFD	Texmar.....b	KIPY	Maiden Creek.....b
KIFG	Favorite.....b	KIOC	Westmoreland.....b
KIFJ	Kishaeoquillas.....b	KIOD	Cansumset.....b
KIFL	Stellaris.....b	KIOP	Rolivar.....b
KIFN	Humrick.....b	KIOR	Hugoton.....b
KIFP	Golden Eagle.....b	KIOV	Exria.....b
KIFO	Point Bonita.....b	KIOX	Fluor Spar.....b
KIFR	Barranca.....b	KIQZ	Liberty Glo.....b
KIFV	Andrea F. Luckenbach.....b	KIRB	Commercial Navigator.....b
KIFX	Youngstown.....b	KIRF	Washington.....b
KIFZ	Lorain.....b	KIRG	New Britain.....b
KIGC	Humaconna.....b	KIRK	Sharon.....b
KIGD	Hulver.....b	KIRT	Derhyline.....b
KIGF	Willmoto.....b	KISC	Cova.....b
KIGL	Polybius.....b	KISD	Seattle Spirit.....b
KIGQ	Santa Elisa.....b	KISF	Seattle.....b
KIGR	Exchange.....b	KISG	Golden Star.....b
HIGS	Harry Luckenbach.....b	KISK	Stanley.....b
KIGT	Bessemer.....b	KISM	West Keene.....b
KIGZ	Silverspruce.....b	KISQ	Baldbutte.....b
KIH	Skellytown, Tex.....fx	KISR	Afel.....b
KIIA	Malolo lifeboat.....b	KISS	City of Fairbury.....b
KIIB	do.....b	KISX	Excellency.....b
KIJC	Third Radio Zone (portable).....fx	KITJ	Lake Farrar.....b
KIJD	Balsam.....b	KITK	Innoko.....b
KIJE	Barrenfork.....b	KITL	Rollbuckle.....b
KIJF	Barryton.....b	KITP	Wytheville.....b
KIJJ	Sahotawan.....b	KITQ	Genevieve Lykes.....b
KIJL	Dorothy Luckenbach.....b	KITX	International.....b
KIJM	Brush.....b	KITZ	Willfaro.....b
KIJQ	Hoxbar.....b	KIU	Charcas.....b
KIJT	Buttercup.....b	KIV	Guadalupe, Calif.....fx
		KIVR	Puerto Princesa, P. I., radio (Palawan).....fc
		KIVC	Minnequa.....b
		KIVF	Kewanee.....b
			Lightburne.....b

COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station
KIVQ	Huguenot.....b	KKY	Third Radio Zone (portable).....fx
KIVR	Beaconoil.....b	KKZ	Bolinas, Calif.....fx
KIVS	Delfina.....b	KLA	No. 12 (portable).....fx
KIVT	Delisle.....b	KLA O	Lake Crystal.....b
KIVV	West Cactus.....b	KLB	Portland, Oreg.....fx
KIWA	Zamboanga, P. I., radio (Mindanao Island).....fc	KLC	California (portable).....fx
KIX	Cuyo, P. I., radio (Palawan).....fc	KLD	Kenai, Alaska.....fx
KIXB	West Cheswald.....b	KLE	No. 11 (portable).....fx
KIXK	LaComo.....b	KLEI	Lake Allen.....b
KIXR	Tulsa.....b	KLG	No. 9 (portable).....fx
KIXV	Montauk.....b	KLII	Point Warde, Alaska.....fx
KIXX	Mallemak.....b	KLI	No. 8 (portable).....fx
KIXZ	West Selene.....b	KLIU	Frank Lynch.....b
KIY	San Jose, P. I., radio (Mindoro Island).....fc	KLIJ	Nushagak, Alaska.....fx
KIZ	Malabang, P. I., radio (Mindanao Island).....fc	KLL	Bolinas, Calif.....fx
KIZB	Domino.....b	KLN	Iiilo, Hawaii.....fx
KIZC	Bakersfield.....b	KLOE	Lake Hemlock.....b
KIZD	De Bardeleben.....b	KLP	Uganik, Alaska.....fc, fx
KIZM	Stella Lykes.....b	KLR	Alameda, Calif.....fc
KIZP	Shickshinny.....b	KLT	No. 10 (portable).....fx
KIZQ	Bannack.....b	KLU	Flagstaff, Ariz.....fx
KIZR	Winona County.....b	KLUA	Lake Capens.....b
KIZS	Vincent.....b	KLUE	Robert Johnson.....b
KIZV	Imlay.....h	KLUI	Dorothy Wintermote.....b
KIZX	Labette.....b	KLW	Flagstaff, Ariz. (portable).....fx
KJA	No. 17 (portable).....fx	KLW	Port Althrop, Alaska.....fc, fx
KJAI	West Durfee.....b	KLY	No. 7 (portable).....fx
KJAO	Helen Whittier.....b	KMAI	Catherine D.....b
KJB	Chignik, Alaska.....fc, fx	KMAU	Cities Service Empire.....b
KJC	Rose Inlet, Alaska.....fx	KMC	Kasaan, Alaska.....fc, fx
KJD	No. 18 (portable).....fx	KMD	No. 6 (portable).....fx
KJE	Reno, Nev.....fa, fx	KMEO	Cletus Schneider.....b
KJEI	Point Breeze.....b	KMF	Fgegik, Alaska.....fx
KJEU	El Salvador.....b	KMG	Eku, Alaska.....fx
KJG	Louisiana, Mississippi, and Texas No. 12 (portable).....fx	KMI	No. 5 (portable).....fx
KJI	Nakeen, Alaska (Bristol Bay).....fc, fx	KMTU	W. M. Burton.....b
KJIE	Walter A. Luckenbach.....b	KMK	Naknek, Alaska.....fx
KJIH	Museatine.....b	KML	Lockanok, Alaska.....fx
KJIO	Paul H. Harwood.....h	KMM	Bolinas, Calif.....fx
KJJI	Mary Island Lighthouse, Alaska.....fc	KMN	San Francisco, Calif.....fx
KJK	King Cove, Alaska, radio.....fc, fx	KMOI	Fldorado.....b
KJL	False Pass, Alaska.....fx	KMOU	Edward Peirce.....b
KJM	Bartlesville, Okla.....fx	KMP	Omaha, Nebr.....fa, fx
KJN	No. 2 (portable).....fx	KMQ	Raspberry Island, Alaska.....fx
KJO	No. 1 (portable).....fx	KMR	North Platte, Nebr.....fa, fx
KJOE	W. M. Irish.....b	KMS	No. 4 (portable).....fx
KJOO	Barbara Cates.....b	KMT	Libbyville, Alaska, radio.....fc, fx
KJP	Kukak Bay, Alaska.....fx	KMU	Ugashik, Alaska.....fx
KJQ	Hoquiam, Wash., radio.....fc	KMUI	George W. Barnes.....b
KJS	Borger, Tex. (near).....fx	KMW	Akutan, Alaska (Aleutian Islands).....fc
KJT	No. 3 (portable).....fx	KMX	No. 3 (portable).....fx
KJUA	Georgian.....b	KMY	No. 2 (portable).....fx
KJUE	Radnor.....b	KMZ	No. 1 (portable).....fx
KJUI	Ernest H. Meyer.....fx	KNAE	West Cohas.....b
KJVO	West Alsek.....b	KNB	No. 5 (portable).....fx
KJV	Baytown, Tex.....fx	KNC	No. 2 (portable).....fx
KJW	No. 4 (portable).....fx	KND	No. 1 (portable).....fx
KJY	No. 5 (portable).....fx	KNE	No. 3 (portable).....fx
KJZ	No. 1 (portable).....fx	KNEE	Santa Tecla.....b
KKA	Yakutat, Alaska.....fc, fx	KNF	No. 4 (portable).....fx
KKAU	Tracy Brothers.....b	KNG	California (portable).....fx
KKB	Portland, Oreg., radio.....fc	KNH	Warm Springs Bay, Alaska.....fc
KKD	Third Radio Zone (portable).....fx	KNI	Wilmington, Calif.....fc
KKF	do.....fx	KNJ	Nushagak, Alaska.....fc, fx
KKH	Kahuku, Hawaii.....fx	KNK	Palo Alto, Calif.....fx
KKL	Bolinas, Calif.....fx	KNL	Third Radio Zone No. 21 (portable).....fx
KKO	Elko, Nev.....fa, fx	KNM	Third Radio Zone No. 20 (portable).....fx
KKOA	Dorothy.....b	KNN	Kailua (Honolulu), Hawaii.....fx
KKP	Kahuku, Hawaii.....fx	KNO	Nushagak, Alaska.....fx
KKQ	Bolinas, Calif.....fx	KNP	Chignik, Alaska.....fc, fx
KKR	do.....fx	KNQ	Third Radio Zone No. 19 (portable).....fx
KKU	Third Radio Zone (portable).....fx	KNR	Clearwater, Calif.....fx
KKUI	J. H. Sheadle.....b	KNS	Third Radio Zone No. 18 (portable).....fx
KKV	Third Radio Zone (portable).....fx	KNT	Third Radio Zone No. 17 (portable).....fx
KKW	Bolinas, Calif.....fx	KNU	Third Radio Zone No. 16 (portable).....fx
KKX	Third Radio Zone (portable).....fx	KNUO	Mazama.....b
		KNW	Palo Alto, Calif. (near).....fx
		KNY	Third Radio Zone No. 12 (portable).....fx
		KNZ	Third Radio Zone No. 11 (portable).....fx
		KOBG	Editor.....b



## COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station
KOBJ	Deroche..... b	KONM	City of Fort Worth..... b
KOBK	West Katan..... b	KONR	Antietam..... b
KOBM	Willpolo..... b	KONS	City of Houston..... b
KOBN	Olean..... b	KONT	City of Philadelphia..... b
KOBP	Bird City..... b	KONV	Nabesna..... b
KOBR	Barwick..... b	KONZ	City of Alton..... b
KOBT	Lake Inglenook..... b	KOPD	Dannedatke..... b
KOBV	Baldhill..... b	KOPK	Circinus..... b
KOCJ	Aquilo..... b	KOPL	Corvus..... b
KOCL	Elkhorn..... b	KOPQ	Bellflower..... b
KOCN	Point Montara..... b	KOPR	Kearny..... b
KOCP	Point Fermin..... b	KOPT	Eglantine..... b
KOCV	West Saginaw..... b	KOPV	City of Dallas..... b
KOD	Third Radio Zone No. 10 (portable)..... fx	KOPZ	Centaurus..... b
KODB	Exmoor..... b	KOQB	Clauseus..... b
KODC	Sunbeam..... b	KOQD	Ilagood..... b
KODF	West Caddoa..... b	KOQF	Trimountain..... b
KODL	Menominee..... b	KOQJ	Casey..... b
KODN	Endicott..... h	KOQK	Coldbrook..... b
KODQ	Mexicos H. Whittier..... b	KOQL	George C. Greer..... b
KODR	Galena..... b	KOQM	Satoco..... b
KODT	Golden Fleece..... b	KOQQ	West Ivis..... b
KODV	Express..... b	KOQR	Kingfisher..... b
KODX	Dillwyn..... b	KOQS	Egremont..... b
KODZ	Bangu..... b	KOQV	Corinto..... b
KOE	Cheyenne, Wyo..... fa, fx	KOR	Quadra..... fx
KOF	Third Radio Zone No. 5 (portable)..... fx	KORB	West Mingo..... b
KOFC	Bellhaven..... b	KORC	Macomet..... b
KOFD	Anaconda..... b	KORD	Sundance..... b
KOFG	Dean Emery..... b	KORG	Cethana..... b
KOFM	Lake Ellihorpe..... b	KORK	Dryden..... b
KOFN	Cockaponset..... b	KORM	Jadden..... b
KOFP	Munloyal..... b	KORQ	Bogota..... b
KOFS	Baseobel..... b	KORT	Munlisto..... b
KOG	Honolulu, Hawaii..... fc, fx	KORV	Wildwood..... b
KOGL	West Ira..... b	KORX	Cliffwood..... b
KOGN	Brave Coeur..... b	KOSB	Widgeon..... b
KOGP	Hadnot..... b	KOSL	New York..... b
KOGR	Lake Fairport..... b	KOSM	Extavia..... b
KOGS	Lake Flatonia..... b	KOSQ	Lake Treba..... b
KOGZ	Commissioner..... b	KOST	Chester Valley..... b
KOI	Third Radio Zone No. 4 (portable)..... fx	KOSZ	Curlow..... b
KOJD	Examiner..... b	KOT	Third Radio Zone No. 3 (portable)..... fx
KOJF	Montana..... b	KOTC	Teal..... b
KOJG	Silveroak..... b	KOTD	Golden Peak..... b
KOJJ	Wyoming..... b	KOTF	Mitchell..... b
KOJK	Hanover..... b	KOTG	Myrtle..... b
KOJL	Cripple Creek..... b	KOTJ	Almeria Lykes..... b
KOJR	Chickasaw..... b	KOTK	West Neris..... b
KOJS	Magneric..... b	KOTL	Eleanor Christenson..... b
KOJT	Hampton Roads..... b	KOTM	Robin Hood..... b
KOJX	Lake Galewood..... b	KOTR	West Montop..... b
KOJZ	Lake Gaither..... b	KOTS	Wild Goose..... b
KOK	Clearwater, Calif. (Los Angeles), radio..... fc	KOTX	Exilona..... b
KOKC	Defacto..... b	KOU	Tenakee, Alaska..... fc, fx
KOKF	Hellpline..... b	KOV	Port Herbert, Alaska..... fx
KOKP	Golden Horn..... b	KOVV	Gulfrade..... b
KOKR	Dora..... b	KOVJ	Dilworth..... b
KOKS	Ruth Lykes..... b	KOVM	Robin Adair..... b
KOKT	Bethnor..... b	KOVN	Oakspring..... b
KOLB	Aryan..... b	KOVR	Abercos..... b
KOLC	Orient..... b	KOVT	Examelia..... b
KOLD	Antonia..... b	KOVV	Coeloda..... b
KOLL	Clavarack..... b	KOVX	Tampa..... b
KOLP	Cathlamet..... b	KOVZ	I. J. Merritt..... b
KOLT	Efingham..... b	KOX	Pirate Cove, Alaska..... fx
KOLX	Cranford..... b	KOXD	Tahmoo..... b
KOLZ	Upshur..... b	KOXS	Laurel..... b
KOM	Naknek, Alaska..... fc, fx	KOXT	Robin Gray..... b
KOMC	Buenaventura..... b	KOXV	Roanoke..... b
KOMD	Capac..... b	KOXX	Steelmaker..... b
KOMJ	Penquin..... b	KOXZ	Steel Age..... b
KOML	J. R. Gordon..... b	KOZ	Texas, Louisiana, and New Mexico (portable)..... fx
KOMM	Scottsburg..... b	KOZB	City of Omaha..... b
KOMP	Coahoma County..... b	KOZC	City of Los Angeles..... b
KOMQ	Afoundria..... b	KOZG	Mana..... b
KOMT	Effna..... b	KOZJ	Nevada..... b
KOMV	Golden Tide..... b	KOZK	West Ilika..... b
KON	Union Bay, Alaska, radio..... fc, fx	KOZL	Quaker City..... b



COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station	
KOZM	Gulf of Venezuela.....	b	KRZ	Texas, Louisiana, and New Mexico (portable).....
KOZN	Point San Pablo.....	b	KSA	Seattle, Wash.....
KOZP	Vigilant.....	b	KSB	Third Radio Zone (portable).....
KOZR	Culburra.....	b	KSBV	General call for all vessels of U. S. Shipping Board.....
KOZZ	Golden West.....	b	KSC	Katalla, Alaska, radio.....
KOZZ	Collarner.....	b	KSE	Torrance, Calif. (Los Angeles), radio.....
KPA	Seattle, Wash.....	fx	KSEA	James Ellwood Jones.....
KPAA	Point Judith.....	fx	KSEE	Mineola.....
KPB	Naknek, Alaska (Hyades moored vessel).....	fx	KSEU	Jonaney.....
KPC	Batangas, P. I. (Batangas), radio.....	fc	KSF	Ponca City, Okla.....
KPD	Hawk Inlet, Alaska.....	fc, fx	KSI	Albuquerque, N. Mex.....
KPE	Seattle, Wash., radio.....	fc, fx	KSIE	Glen White.....
KPF	Texas, Louisiana, and New Mexico (portable).....	fx	KSIU	Lake Benton.....
KPII	Bolinas, Calif., radio.....	fc	KSJ	View Cove, Alaska.....
KPI	Cebu, P. I., radio.....	fc	KSM	Los Angeles, Calif., radio.....
KPJ	Culion, P. I. (Palawan), radio.....	fc	KSNA	Republic Lifeboat No. 1.....
KPL	Texas, Louisiana, and New Mexico (portable).....	fx	KSNB	Republic Lifeboat No. 2.....
KPM	Hilo, P. I., radio (Hilo).....	fc	KSOC	General call for all vessels of Standard Oil Co.....
KPN	Isabela de Basilan, radio, P. I. (Zamboanga).....	fx	KSOI	Contoy.....
KPR	Port Alexander, Alaska.....	fc, fx	KSOU	Bylayl.....
KPS	Lazy Bay, Alaska.....	fx	KSP	Gallup, N. Mex.....
KPT	Texas, Louisiana, and New Mexico (portable).....	fx	KSR	Tyee, Alaska.....
KPU	do.....	fx	KSS	Bolinas, Calif.....
KPV	Big Port Walter, Alaska.....	fx	KST	Clovis, N. Mex.....
KPW	Malita, P. I., radio (Davao).....	fc	KSU	Breckenridge, Tex.....
KPX	Lebak, P. I., radio.....	fc	KSV	Winslow, Ariz.....
KPY	San Francisco, radio, P. I. (Caimotes-Cebu).....	fc	KSW	Berkeley, Calif.....
KPZ	Mati, P. I., radio (Davao).....	fc	KSX	Kingman, Ariz.....
KQC	Rock Springs, Wyo.....	fa, fx	KSY	Waynoka, Okla.....
KQD	Salt Lake City, Utah.....	fa, fx	KSZ	McCamey, Tex.....
KQE	Bolinas, Calif.....	fx	KT A	Guam, Guam.....
KQH	Kahuku, Hawaii.....	fx	KT A O	Lake Frances.....
KQI	Hunters Bay, Alaska.....	fx	KT F	Midway Island, Hawaii.....
KQIC	West Ekonk.....	b	KT J	Hilo, P. I.....
KQJ	Bolinas, Calif.....	fx	KT K	Mussell Rock, Calif., radio.....
KQL	Hidden Inlet, Alaska.....	fc, fx	KT L	Cebu, P. I.....
KQM	Des Moines, Iowa.....	fa, fx	KT N	Manila, P. I.....
KQOA	Anacortes.....	b	KTO	do.....
KQOE	Delight.....	b	KTOE	Mary.....
KQP	Minneapolis, Minn.....	fc	KTOI	Catherine.....
KQQ	Iowa City, Iowa.....	fa, fx	KTP	Manila, P. I.....
KQR	Bolinas, Calif.....	fx	KTQ	L. & McN. & L. V. No. 1, (permanently moored vessel in Kvichak River, Bristol Bay, Alaska).....
KQS	Independence, Calif.....	fx	KTR	Manila, P. I.....
KQT	Los Angeles, Calif.....	fx	KTS	Tolong, P. I.....
KQU	Killsnoo, Alaska.....	fx	KT T	Drier Bay, Alaska.....
KQUE	Lancaster.....	b	KTU	Redding, Calif.....
KQUU	West Gambo.....	b	KTU I	Samoa.....
KQX	Bakersfield, Calif.....	fa	KTU O	Sagadahoc.....
KQZ	Bolinas, Calif.....	fx	KTX	Camiguin Island, P. I.....
KRA	Cedar Rapids, Iowa.....	fa, fx	KTY	Manila, P. I., radio.....
KRB	California (portable).....	fx	KTZ	Naknek, Alaska.....
KRD	Sebastopol, Calif.....	fx	KU A	Manila, P. I.....
KREA	Emilia.....	b	KUB	Koggiung (permanently moored scow in Koggiung River, Alaska).....
KRF	Lincoln, Nebr.....	fa, fx	KUBB	Cold Harbor.....
KRG	San Francisco, Calif.....	fx	KUBD	Claremont.....
KRH	San Jose, Calif.....	fx	KUBF	San Diego.....
KRI	Loring, Alaska.....	fc, fx	KUBG	Betterton.....
KRIU	Liberator.....	b	KUBJ	Republic.....
KRJ	Sacramento, Calif.....	fx	KUBK	Golden Mountain.....
KRM	Los Angeles, Calif.....	fx	KUBL	Golden Wall.....
KRN	California (portable).....	fx	KUBM	Biboco.....
KRO	Kahuku, Hawaii.....	fx	KUBN	Robin Goodfellow.....
KRQ	Kaunpalapau, Hawaii.....	fx	KUBV	Iliho.....
KRR	Texas, Louisiana, and New Mexico (portable).....	fx	KUC	Panabutan, P. I.....
KRS	do.....	fx	KUCD	Point Arena.....
KRT	do.....	fx	KUCJ	Holyoke Bridge.....
KRU	Yes Bay, Alaska.....	fc, fx	KUCM	San Antonio.....
KRUI	Santa Flavia.....	b	KUCN	Eastern Guide.....
KRUU	Socony 88.....	b	KUCQ	W. F. Burdell.....
KRV	Texas, Louisiana, and New Mexico (portable).....	fx	KUCR	Lake Giddings.....
KRW	do.....	fx	KUCV	City of Flint.....
KRX	Chichagof, Alaska, radio.....	fc, fx	KUCX	Coldwater.....
			KUCZ	Bridgetown.....
			KUD	Bacharof, Alaska.....

## COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station
KUDB	Brant..... b	KUMS	Atlantic Sun..... b
KUDC	Tuscan..... b	KUMT	Solitaire..... b
KUDD	Argon..... b	KUMV	Volusia..... b
KUDF	Heron..... b	KUMX	West Texas..... b
KUDG	Oran..... b	KUN	Bollnas, Calif..... fx
KUDK	Iowa..... b	KUNB	Ethyl..... b
KUDL	Georgian..... b	KUNC	Commercial Pioneer..... b
KUDN	American Press..... b	KUND	Eastern Glade..... b
KUDP	Exermont..... b	KUNF	Penmar..... b
KUDQ	Bellingham..... b	KUNG	Wichita Falls..... b
KUDR	Davenport..... b	KUNN	Oakpark..... b
KUDS	Commercial Mariner..... b	KUNP	Freeport Sulphur No. 6..... b
KUDZ	Eastern Gale..... b	KUNQ	Eastern Crown..... b
KUE	Manila, P. I..... fx	KUNR	Pacific Cedar..... b
KUF	Sipaco, P. I..... fx	KUNV	Exchester..... b
KUFB	Eastern Knight..... b	KUNZ	Chickasaw City..... b
KUFC	General call for all vessels the stations of which are operated by T. R. T. Co..... b	KUO	San Francisco, Calif..... fc, fx
KUFD	Tillie Lykes..... b	KUP	do. <del>EXAMINER</del> ..... fc
KUFG	Velma Lykes..... b	KUPB	Sucarseco..... b
KUFJ	West Nilus..... b	KUPD	Eastern Planet..... b
KUFK	Haiti..... b	KUPF	Gulfpont..... b
KUFN	Steel Voyager..... b	KUPJ	Pacific Fir..... b
KUFP	Bethlehem Shipbuilding Corp..... b	KUPK	Darden..... b
KUFQ	Tern..... b	KUPL	Conness Peak..... b
KUFR	West Campgaw..... b	KUPM	Patrick Henry..... b
KUFT	Plover..... b	KUPN	Capillo..... b
KUFX	Sheldrake..... b	KUPP	Cubore..... b
KUFZ	Exbrook..... b	KUPV	Chiloil..... b
KUG	Limay, P. I..... fx	KUQ	Naga-Naga, P. I..... fx
KUGB	Willzipo..... b	KUQD	Crudoil..... b
KUGD	Clearwater..... b	KUQG	Padnsay..... b
KUGG	Oakman..... b	KUQJ	Golden Coast..... b
KUGJ	Loon..... b	KUQK	West Keats..... b
KUGM	Commercial Quaker..... b	KUQL	Martinique..... b
KUGN	Osceola..... b	KUQM	Illinois..... b
KUGP	Seminole..... b	KUQP	Unicoi..... b
KUGQ	Star of Holland..... b	KUQQ	Conehatta..... b
KUGS	Exmouth..... b	KUQT	Eastern Dawn..... b
KUGT	Jomar..... b	KUR	Evans Bay, Alaska..... fx
KUGV	Arizonan..... b	KURC	Cathwood..... b
KUGX	Ellenor..... b	KURD	Areturus..... b
KUGZ	Lillian..... b	KURG	Artigas..... b
KUH	Manila, P. I..... fx	KURJ	J. L. Reiss..... b
KUJB	Cebu, P. I..... fx	KURM	Willboro..... b
KUJC	The Angeles..... b	KURS	Wisconsin..... b
KUJF	Bayport..... b	KURV	Ohonkara..... b
KUJM	Kerhonkson..... b	KURX	Diamond Cement..... b
KUJN	Coot..... b	KURZ	Suboatco..... b
KUJQ	Osprey..... b	KUS	Manila, P. I..... fx
KUJL	Peter Helms..... b	KUSB	Suedco..... b
KUJR	Ethan Allen..... b	KUSC	Sunelseco..... b
KUJS	City of Joliet..... b	KUSF	Nosa King..... b
KUJX	Winston-Salem..... b	KUSG	Pennsylvania..... b
KUJZ	Liberty Bell..... b	KUSJ	Occidental..... b
KUK	Emma H. Coppago..... b	KUSK	Tejon..... b
KUKD	Davao, P. I..... fx	KUSL	General call for all vessels of United States Lines..... b
KUKJ	Point Sur..... b	KUSN	Aquarius..... b
KUKL	Oriole..... b	KUSP	Crown City..... b
KUKS	Mal..... b	KUSQ	Massmar..... b
KUKV	Robert Luckenbach..... b	KUSR	Nemaha..... b
KUKX	California..... b	KUST	West Camak..... b
KUL	Collingsworth..... b	KUTC	West Mahwah..... b
KULB	Pilot Point, Alaska..... fx	KUTD	Oregon..... b
KULC	Maltzan..... b	KUTE	Tanana..... b
KULK	Malchace..... b	KUTJ	S. A. Perkins..... b
KULM	Horace Luckenbach..... b	KUTK	James Griffiths..... b
KULN	Ario..... b	KUTM	John P. Reiss..... b
KULP	Arizona..... b	KUTS	Vacuum..... b
KULQ	Commack..... b	KUTT	Birmingham City..... b
KULR	Otho..... b	KUTX	Beaconlight..... b
KULS	Lyndonia..... b	KUTZ	Rochester..... b
KULZ	Lyndonia..... b	KUU	Steamboat Bay, Alaska (Noyes Island)..... fc, fx
KUM	Mambajao, P. I., radio..... fc	KUV	Manila, P. I..... fx
KUMC	Utacarbon..... b	KUVB	Eastern Glen..... b
KUMG	Homer..... b	KUVK	City of Weatherford..... b
KUMK	Freeport Sulphur No. 5..... b	KUVD	Sidney M. Hauptman..... b
KUML	Nosa Prince..... b	KUVG	Berkshire..... b
KUMM	Golden Harvest..... b	KUVK	Steel Mariner..... b
KUMN	W. E. Hutton..... b		

COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station
KUVL	Steel Trader..... b	KZBJ	Salvador..... b
KUVT	Jolee..... b	KZBK	Esperanza..... b
KUVV	Cardonia..... b	KZBM	Matuban..... b
KUVX	Exanthia..... b	KZBQ	Mncaria..... b
KUVZ	Pacific Pine..... b	KZBV	Campeador..... b
KUW	Manila, P. I..... fx	KZBW	Don Jose..... b
KUY	Bear Creek, Alaska..... fx	KZBX	Islas Filipinas..... b
KUZ	Manila, P. I., radio..... fc	KZBY	Consuelo..... b
KUZC	Hahira..... b	KZBZ	Antonio..... b
KUZF	Makua..... b	KZC	Lake Bay, Alaska..... fc, fx
KUZG	Sutransco..... b	KZCB	Sorsogon..... b
KUZJ	Suelco..... b	KZCC	San Isidro..... b
KUZK	Suportco..... b	KZCF	Bohol..... b
KUZN	Mary D..... b	KZCG	Paz..... b
KUZQ	Garnet Hulings..... b	KZCH	Polillo..... b
KUZR	Capulin..... b	KZCJ	Union..... b
KUZS	Ensley City..... b	KZCL	Capitan Luis..... b
KUZT	Peter Kerr..... b	KZCQ	Montanes..... b
KUZV	Dungannon..... b	KZCR	Ntr. Sra. del Carmen..... b
KUZZ	Cayo Mambi..... b	KZCS	Titania..... b
KVAE	Lake Benbow..... b	KZCV	Visayas..... b
KVAI	Socony 82..... b	KZCW	Ylollo..... b
KVAO	Socony 83..... b	KZCY	Fernandez Hermanos..... b
KVC	Snug Harbor, Alaska..... fx	KZCZ	Don Juan O..... b
KVF	Uganik, Alaska (Port O'Brien, Kodiak Island)..... fc	KZDC	San Carlos..... b
KVG	Taku Harbor, Alaska..... fc, fx	KZDD	Dos Hermanos..... b
KVIU	J. W. Van Dyke..... b	KZDK	Josefina..... b
KVN	Shakan, Alaska..... fc	KZDL	Jolo..... b
KVO	Portland, Oreg..... fa	KZDM	Magallanes..... b
KVP	Dallas, Tex..... fx	KZDQ	Palawan..... b
KVQ	Kvichak (permanently moored scow in Koggiung River, Alaska)..... b	KZDR	Ulises..... b
KVUA	Lake Ormoc..... b	KZDS	Santo Domingo..... b
KVV	Koggiung, Alaska..... fc, fx	KZDT	Isidoro Pons..... b
KVW	Seattle, Wash..... fx	KZDV	Fortuna..... b
KWE	Bolinas, Calif..... fx	KZDW	Mactan..... b
KWL	Anchorage, Alaska..... fc	KZE	Aberdeen, Wash..... fc, fx
KWQ	Saltchuck, Alaska (Kasaan Bay)..... fx	KZEB	Dominga—A..... b
KWR	Port Moller, Alaska..... fx	KZEC	Davao..... b
KWT	Palo Alto, Calif..... fx	KZEF	Southern Trader..... b
KWW	Radioville, Alaska, radio..... fc, fx	KZEH	Yuingco..... b
KXD	Signakna Island, Alaska..... fx	KZEN	Negros..... b
KXK	Funter, Alaska..... fx	KZEP	Compania de Filipinas..... b
KXOA	Star of Lapland..... b	KZES	F. Escano..... b
KXOE	Severance..... b	KZEV	Islas Visayas..... b
KXS	Red Bluff Bay, Alaska radio..... fc, fx	KZIU	Sagaporaek..... b
KXV	Nelson Lagoon, Alaska..... fx	KZJ	Seattle, Wash..... fa, fx
KXW	Ikatan, Alaska, radio..... fc, fx	KZJM	Ntra. Sra. de la Paz..... fc, fx
KYB	Honolulu, Hawaii..... fx	KZN	Waterfall, Alaska, radio..... fc, fx
KYD	Mount Baker (permanently moored vessel near Ugashik, Alaska)..... fc	KZOA	Elwyn C. Hale..... b
KYF	Seattle, Wash..... fc	KZPC	Churruca..... b
KYG	Honolulu, Hawaii, radio..... fc	KZPD	Borongon..... b
KYI	Kings Mill, Tex..... fx	KZS	Boca de Quadra, Alaska..... fx
KYK	Kariuk, Alaska (Kodiak Island)..... fx	KZU	Uzinki, Alaska..... fc, fx
KYL	Alitak, Alaska (Kodiak Island)..... fc, fx	KZV	Nushagak, Alaska..... fc, fx
KYM	Kvichak, Alaska..... fc, fx	KZY	Kusilof, Alaska..... fx
KYN	Midway Island, Hawaii..... fc	WABS	General call for all vessels of A. H. Bull S. S. Co..... b
KYU	Wichita Falls, Tex..... fx	WACA	American..... b
KYV	Pillar Bay, Alaska..... fx	WACB	Californian..... b
KYY	Los Angeles, Calif..... fx	WACC	Columbian..... b
KYZ	Kenai, Alaska..... fx	WACD	Dakotan..... b
KZAG	Neil Macleod..... b	WACF	Georgian..... b
KZAH	Sirius..... b	WACG	Hawaiian..... b
KZAI	Barbara..... b	WACH	Iowan..... b
KZAK	Albay..... b	WACI	Kansan..... b
KZAL	Luzon..... b	WACJ	Kentuckian..... b
KZAN	Leyte..... b	WACK	Mexican..... b
KZAS	Ntra. Sra. De Alba..... b	WACL	Minnesota..... b
KZAT	Vizcaya..... b	WACM	Montanian..... b
KZAV	Venus..... b	WACN	Nevadan..... b
KZAW	Susana II..... b	WACQ	Nebraskan..... b
KZAX	Cebu..... b	WACR	Ohioan..... b
KZAY	Florence D..... b	WACS	Oregonian..... b
KZBC	Tong Yek..... b	WACT	Panamanian..... b
KZBD	Salvager..... b	WACU	Pennsylvanian..... b
KZBF	Pompey..... b	WACV	Texan..... b
KZBG	Panay..... b	WACW	Virginian..... b
			Alaskan..... b



## COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station
WADD	A. M. Byers.....b	WBE	Louisiana, Mississippi, and Texas No. 3 (portable).....fx
WADE	Clemens A. Reiss.....b	WBF	Boston, Mass., radio.....fc, fx
WADF	Lynford E. Geer.....b	WBG	Louisiana, Mississippi, and Texas No. 4 (portable).....fx
WADG	Peter Reiss.....b	WBH	Louisiana, Mississippi, and Texas No. 5 (portable).....fx
WADH	Richard J. Reiss.....b	WBI	Frackville, Pa.....fx
WADI	William A. Reiss.....b	WBK	Louisiana, Mississippi, and Texas No. 6 (portable).....fx
WADJ	William G. Mather.....b	WBL	Buffalo, N. Y., radio.....fc, fx
WADK	Cabrillo.....b	WBM	Detroit, Mich.....fx
WADL	Tionesta.....b	WBN	Louisiana, Mississippi, and Texas No. 7 (portable).....fx
WADM	Juniata.....b	WBO	Dearborn, Mich.....fx
WADO	Octorara.....b	WBQ	Chicago, Ill.....fa, fx
WADP	Favorite.....b	WBR	Butler, Pa.....fx
WADQ	Huron.....b	WBS	Louisiana, Mississippi, and Texas No. 8 (portable).....fx
WADR	Wyandotte.....b	WBU	Rocky Point, N. Y.....fx
WADS	The Harvester.....b	WBV	Charlottesville, Pa.....fx
WADT	Guatemala.....b	WBX	Louisiana, Mississippi, and Texas No. 9 (portable).....fx
WADU	Alpena.....b	WBZ	Springfield, Mass.....fx
WADV	Conneaut.....b	WCA	Louisiana, Mississippi, and Texas No. 10 (portable).....fx
WADW	Ruth Alexander.....b	WCB	Louisiana, Mississippi, and Texas No. 11 (portable).....fx
WADX	Puritan.....b	WCBO	General call for all vessels of Calmar S. S. Corp. and Ore S. S. Corp.....b
WADY	W. M. Tupper.....b	WCC	Marion, Mass., radio.....fc
WADZ	Redman.....b	WCCB	West Celeron.....b
WAE	El Dorado, Kans.....fx	WCCD	Amolco.....b
WAJ	Rocky Point, N. Y.....fx	WCCF	Chincha.....b
WAM	Buffalo, N. Y., radio.....fc, fx	WCCG	Eurana.....b
WAQ	Newark, N. J.....fx	WCCH	Edwin Christenson.....b
WAV	Dearborn, Mich.....fx	WCCI	Christobal.....b
WAX	Hialeah, Fla., radio.....fc, fx	WCCJ	Ancon.....b
WAZ	New Brunswick, N. J.....fx	WCCK	Joseph R. Parrott.....b
WBA	Harrisburg, Pa.....fx	WCCL	Henry M. Flagler.....b
WBAI	Heffron.....b	WCCM	Plymouth.....b
WBB	Louisiana, Mississippi, and Texas No. 1 (portable).....fx	WCCN	President Johnson.....b
WBCC	Huron.....b	WCCO	Mongolia.....b
WBCE	Macom.....b	WCCP	Alamada.....b
WBCE	Cambridge.....b	WCCQ	Cordova.....b
WBCF	Louisiana.....b	WCCR	El Capitan.....b
WBCG	New York.....b	WCCS	Latouche.....b
WBCH	Texas.....b	WCCU	Ketchikan.....b
WBCK	Freeman.....b	WCCV	Northwestern.....b
WBCL	Wilson.....b	WCCW	Redondo.....b
WBCE	Atlantic.....b	WCCX	Victoria.....b
WBCE	Mystic.....b	WCCY	Yukon.....b
WBCE	Ardmore.....b	WCD	Louisiana, Mississippi, and Texas No. 13 (portable).....fx
WBCE	Muscogee.....b	WCDB	Kestore.....b
WBCE	Westerner.....b	WCDC	Fabia.....b
WBCE	Matinicoek.....b	WCDD	Commercial Guide.....b
WBCE	Waban.....b	WCDE	Philip D. Block.....b
WBCE	Marian Otis Chandler.....b	WCDE	West Arrow.....b
WBCE	Sea Thrush.....b	WCDE	Westward Ho.....b
WBCE	Louisiana, Mississippi, and Texas No. 2 (portable).....fx	WCDE	Maitland No. 1.....b
WBDA	American Banker.....b	WCDE	Exhibitor.....b
WBDB	American Farmer.....b	WCDE	Willbaco.....b
WBDC	Samuel Mitchell.....b	WCDE	Stanley Dollar.....b
WBDE	West Gotomska.....b	WCDE	Sabine Sun.....b
WBDF	D. E. Callender.....b	WCDE	Multnomah.....b
WBDF	Ashtabula.....b	WCDE	Celilo.....b
WBDF	Manitou.....b	WCDE	Wapama.....b
WBDF	Sialia.....b	WCDE	Willamette.....b
WBDF	Coronado.....b	WCDE	Hyades.....b
WBDF	City of Seattle.....b	WCDE	New York, N. Y.....fc
WBDF	Ormidale.....b	WCDE	Louisiana, Mississippi, and Texas No. 14 (portable).....fx
WBDM	W. F. White.....b	WCDE	Tuckerton, N. J.....fx
WBDM	Oregon.....b	WCDE	Invincible.....b
WBDM	Princess Montagu.....b	WCDE	Hazelton, Pa.....fx
WBDM	Guardian.....b	WCDE	Detroit, Mich.....fx
WBDM	S. B. Coolidge.....b	WCDE	Columbus, Ohio.....fx
WBDR	Sierra.....b	WCDE	Texas and Louisiana (portable).....fx
WBDS	Ventura.....b	WCDE	
WBDS	Sonoma.....b	WCI	
WBDS	Tillamook.....b	WCII	
WBDS	W. R. Chamberlain, jr.....b	WCJ	
WBDS	Santa Cecilia.....b	WCK	
WBDS	Big Hill.....b	WCL	
WBDS	Velero II.....b	WCM	
WBDS	Humboldt.....b		



COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station
WCN	Texas and Louisiana (portable).....fx	WECW	Monterey.....b
WCO	do.....b	WECX	Orizaba.....b
WCOO	Liberty.....b	WECY	Panuco.....b
WCOU	Lake Kettle.....b	WECZ	Sibouey.....b
WCP	Texas and Louisiana (portable).....fx	WED	Rocky Point, N. Y.....b
WCQ	Lansing, Ill.....ab	WEDA	Harvey H. Brown.....b
WCR	Texas and Louisiana (portable).....b, fx	WEDB	Beta.....b
WCS	Texas, Louisiana and New Mexico (portable).....fx	WEDD	Harry W. Croft.....b
WCT	L'Anse, Mich.....fc, fx	WEDF	Fayette Brown.....b
WCU	Third Radio Zone (portable).....fx	WEDG	M. A. Bradley.....b
WCV	Wyandotte, Mich.....fc, fx	WEDJ	Costa Rica.....b
WCY	West Dover, Ohio, Radio (Cleveland).....fc, fx	WEDL	Artemis.....b
WDCA	Pere Marquette 15.....b	WEDM	Jeannette Skinner.....b
WDCB	Pere Marquette 19.....b	WEDN	Creole.....b
WDCC	Pere Marquette 17.....b	WEDO	Amelia.....b
WDCD	Pere Marquette 18.....b	WEDP	Annetta.....b
WDCE	Pere Marquette 20.....b	WEDQ	Florence Olson.....b
WDCF	Pere Marquette 21.....b	WEDR	Noyo.....b
WDCCG	Pere Marquette 22.....b	WEDS	Redwood.....b
WDCK	Ann Arbor No. 7.....b	WEDT	Norwood.....b
WDCL	Wabash.....b	WEDU	Santa Inez.....b
WDCN	Ann Arbor No. 3.....b	WEDV	Edna Christenson.....b
WDCO	Ann Arbor No. 4.....b	WEDZ	American Shipper.....fx
WDCP	Ann Arbor No. 5.....b	WEE	Rocky Point, N. Y.....fx
WDCQ	Ann Arbor No. 6.....b	WEEF	do.....fx
WDCU	Bantu.....b	WEEG	do.....fx
WDCV	Charlton Hall.....b	WEH	Tulsa, Okla.....fx
WDCW	Crofton Hall.....b	WEJ	Rocky Point, N. Y.....fx
WDCX	Howick Hall.....b	WEL	do.....fx
WDCY	San Francisco.....b	WEM	do.....fx
WDCZ	Santa Rosalia.....b	WEN	do.....fx
WDDA	San Pedro.....b	WEO	do.....fx
WDDA	T. W. Robinson.....b	WEQ	Baltimore, Md.....fx
WDDC	Commercial Trader.....b	WER	Rocky Point, N. Y.....fx
WDDF	Bowdoin.....b	WES	do.....fx
WDDG	Hatteras.....b	WET	do.....fa
WDDH	Ilorace X. Baxter.....b	WEU	Marion, Ill.....fx
WDDL	William C. Atwater.....b	WEV	Rocky Point, N. Y.....fx
WDDM	Tyce.....b	WEX	do.....fx
WDDN	John McCartney Kennedy.....b	WEY	Boston, Mass.....fx
WDDP	S. B. Way.....b	WEZ	Rocky Point, N. Y.....fx
WDDR	Starr.....b	WFA	Main base (Byrd Expedition).....fc, fx
WDDS	Colonel.....b	WFAI	West Hobomac.....b
WDDT	Yosemite.....b	WFAO	Volunteer.....b
WDDU	Senator.....b	WFAT	Eleanor Boling.....b
WDDX	Sea King.....b	WFBB	City of New York.....b
WDDZ	John Anderson.....b	WFCA	Comerio.....b
WDEO	Steadfast.....fx	WFCB	Ponce.....b
WDH	Philadelphia, Pa.....b	WFCC	Porto Rico.....b
WDI	Detroit, Mich., radio.....fc, fx	WFCD	San Juan.....b
WDIO	Willangle.....b	WFCE	San Lorenzo.....b
WDJ	Harrison, Ohio.....fx	WFCK	City of Atlanta.....b
WDM	Menominee, Mich., radio.....fc, fx	WFCL	City of Birmingham.....b
WDOI	Maliko.....b	WFCLM	City of Chatanooga.....b
WDOO	Federal.....b	WFCON	City of Columbus.....b
WDS	Rocky Point, N. Y.....fx	WFCS	City of Montgomery.....b
WDX	Wyoming, Pa.....fx	WFCD	Somerset.....b
WEA	Rocky Point, N. Y.....fx	WFCE	City of St. Louis.....b
WEB	do.....fx	WFCE	City of Savannah.....b
WEC	do.....fx	WFCE	Commercial Orleanian.....b
WECA	Belfast.....b	WFCE	Albert Hill.....b
WECE	Boston.....b	WFCE	H. C. Folger.....b
WECC	Calvin Austin.....b	WFCE	Herbert L. Pratt.....b
WECD	Camden.....b	WFCE	J. C. Donnell.....b
WECE	Governor Dingley.....b	WFCE	J. E. O'Neil.....b
WECF	New York.....b	WFCE	Sub-base (Byrd Expedition).....fc, fx
WECG	North Land.....b	WFCE	Lansing.....b
WECH	Virginia Express.....b	WFCE	American Trader.....b
WECI	Virginia Limited.....b	WFCE	San Juan.....b
WECEJ	George Washington.....b	WFCE	Rose City.....b
WECK	Hamilton.....b	WFCE	Black Point.....b
WECL	Jefferson.....b	WFCE	C. B. Watson.....b
WECEM	City of Bangor.....b	WFCE	Dorothy Bradford.....b
WECEW	Agwistar.....b	WFCE	American Merchant.....b
WECS	Antilla.....b	WFCE	La Brea.....b
WECT	Camaguey.....b	WFCE	Los Angeles.....b
WECU	Cauto.....b	WFCE	Oleum.....b
WECV	Mexico.....b	WFCE	General Markham.....b
		WFCE	Marquette & Bessemer No. 2.....b
		WFCE	Missouri.....b

## COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station
WFE	Sub-base (Byrd Expedition).....fc, fx	WHCA	Agwidale.....b
WFEE	Winding Gulf.....b	WHCB	Brazos.....b
WFEL	Constance Chandler.....b	WHCD	Comal.....b
WFEO	Westport.....b	WHCF	Henry R. Mallory.....b
WFG	Third Radio Zone No. 1 (portable)....fx	WHCG	Medina.....b
WFH	Third Radio Zone No. 2 (portable)....fx	WHCH	Pecos.....b
WFII	Major Wheeler.....b	WHCI	San Jacinto.....b
WFJ	Third Radio Zone No. 6 (portable)....fx	WHCM	Nelson.....b
WFK	Frankford, Mich., radio.....fc, fx	WHCP	Cities Service Fuel.....b
WFL	Chicago, Ill., radio.....fc, fx	WHCQ	Mount Hope.....b
WFM	Third Radio Zone No. 7 (portable)....fx	WHCR	Miami.....b
WFN	Third Radio Zone No. 8 (portable)....fx	WHCS	Achilles.....b
WFO	Dearborn, Mich.....ab	WHCT	Ulysses.....b
WFOE	Lewis Luckenbach.....b	WHCU	Harry Farnum.....b
WFOI	Manhattan Island.....b	WHCV	W. L. Connelly.....b
WFOO	William N. Page.....b	WHCW	Gene Crawley.....b
WFP	Third Radio Zone No. 9 (portable)....fx	WHCX	Governor Cobb.....b
WFQ	Third Radio Zone No. 13 (portable)....fx	WHCY	Freeport Sulphur No. 2.....b
WFR	Third Radio Zone No. 14 (portable)....fx	WHCZ	Relief.....b
WFS	Third Radio Zone No. 15 (portable)....fx	WHD	New York, N. Y.....fc
WFU	Miami Beach, Fla.....fc	WHDA	Sea Hawk.....b
WFUI	A. E. R. Schneider.....b	WHDB	Winchester.....b
WFX	Rocky Point, N. Y.....fx	WHDC	Nomad.....b
WFY	Third Radio Zone (portable).....fx	WHDD	Gar, sr.....b
WFZ	do.....fx	WHDG	Surf.....b
WGA	New York, N. Y.....fx	WHDJ	Viking.....b
WGAO	Cities Service Kool-motor.....b	WHDK	Zeida.....b
WGB	Third Radio Zone (portable).....fx	WHDM	Fairfield.....b
WGBG	General call for any or all merchant vessels.....b	WHDN	Alabama.....b
WGC	Ninth Radio District (portable)....fx	WHDO	Warrior.....b
WGCA	Admiral Dewey.....b	WHDQ	Ulua.....b
WGCB	Admiral Evans.....b	WHDR	Tolea.....b
WGCC	Admiral Farragut.....b	WHDS	Penguin.....b
WGCD	Admiral Fiske.....b	WHDT	William J. O'Brien.....b
WGCE	Admiral Moser.....b	WHDV	Phantom.....b
WGCF	Admiral Peary.....b	WHDW	Idler.....b
WGCG	Admiral Rodman.....b	WHDX	Helena.....b
WGCH	Admiral Rogers.....b	WHDY	Blaine.....b
WGCI	Admiral Schley.....b	WHDZ	Haleyon.....b
WGOK	Admiral Sebree.....b	WHF	Williamsport, Md.....fx
WGCK	Admiral Watson.....b	WHG	Columbus, Ohio.....fa, ab
WGCL	Curacao.....b	WHHI	Cheat Haven, W. Va.....fx
WGCLN	Emma Alexander.....b	WHJ	Butler, Pa.....fx
WGCO	H. F. Alexander.....b	WHL	Altoona, Pa.....fx
WGQQ	Dorothy Alexander.....b	WHM	Indianapolis, Ind.....fa, ab
WGR	Queen.....b	WHQ	Mackinac Island, Mich., radio.....fc, fx
WGCW	South American.....b	WHR	Rocky Point, N. Y.....fx
WGDC	Sinaloa.....b	WHU	Jersey City, N. J.....fx
WGDD	Queen Anne.....b	WHV	Newark, N. J.....fx
WGDF	Ansonia.....b	WHW	Highland Park, Ill.....fx
WGDG	Irene L.....b	WICA	Comus.....b
WGDK	Karluk.....b	WICB	Creole.....b
WGDL	Zodiac.....b	WICD	El Alba.....b
WGDN	Memory III.....b	WICE	El Almirante.....b
WGDP	Shenango.....b	WICF	El Capitan.....b
WGDR	Martha Foss.....b	WICG	El Cid.....b
WGDS	Emma R. S.....b	WICH	El Coston.....b
WGDT	Vanda.....b	WICI	El Dia.....b
WGDU	Colrairie.....b	WICJ	El Estero.....b
WGDV	Cormorant.....b	WICK	El Isleo.....b
WGDY	John S. Cushing.....b	WICL	El Lago.....b
WGDX	Roland.....b	WICM	El Mundo.....b
WGDY	Niliraga.....b	WICN	El Norte.....b
WGDA	Queen of Scots.....b	WICO	El Oceano.....b
WGEA	Easterner.....b	WICP	El Occidente.....b
WGEI	East Indian.....b	WICQ	El Oriente.....b
WGG	Tuckerton, N. J.....fx	WICR	El Siglo.....b
WGI	Alpena, Mich., radio.....fc, fx	WICS	El Valle.....b
WGIA	West Grama.....b	WICT	Momus.....b
WGO	Chicago, Ill., radio.....fc, fx	WICU	Tamiahua.....b
WGOI	Saccarappa.....b	WICV	Topila.....b
WGOU	West Cressy.....b	WICW	Torres.....b
WGT	San Juan, P. R.....fx	WICX	Dixie.....b
WGU	do.....fx	WIDA	Santa Inez.....b
WGV	Galveston, Tex., radio.....fc, fx	WIDB	Harbor.....b
WGW	Vieques, P. R., radio.....fc, fx	WIDC	Abacena.....b
WGX	San Juan, P. R.....fx	WIDD	Dooden.....b
WGZ	do.....fx	WIDE	Kiska.....b
WHC	Allentown, Pa.....fx	WIDF	Joseph H. Frantz.....b
		WIDG	Santa Rita.....b

COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station
WIDI	Buccaneer.....b	WJII	Washington, D. C.....fx
WIDI	Mikimiki.....b	WJIO	Independence.....b
WIDJ	Tempress.....b	WJIU	Schenectady.....b
WIDK	Beryle E.....b	WJL	Greensburg, Pa.....fx
WIDL	Leonine.....b	WJOA	West Eleasco.....b
WIDM	Sally S.....b	WJOE	West Eldara.....b
WIDN	Virginia E.....b	WJOI	West Loquassuck.....b
WIDP	Resource.....b	WJOO	West Madaket.....b
WIDQ	Rudolf N.....b	WJOU	West Kyska.....b
WIDR	Hazel Robb.....b	WJT	San Juan, P. R.....fx
WIDS	Barron F.....b	WJUO	Carriso.....b
WIDT	Sacco.....b	WJV	Philadelphia, Pa.....fx
WIDU	Tally Scow.....b	WJX	Washington, D. C.....fx
WIDV	Nan B.....b	WKA	East Pittsburgh, Pa.....fx
WIDW	Evangeline.....b	WKB	Harrisburg, Pa.....fx
WIDX	Farwest.....b	WKC	Rocky Point, N. Y.....b
WIDY	E. P. Co. No. 4.....b	WKCA	Carolin.....b
WIDZ	Mary Ellen.....b	WKCB	Clare.....b
WII	New Brunswick, N. J.....fx	WKCC	Cornelia.....b
WIK	Rocky Point, N. Y.....fx	WKCD	Edith.....b
WIM	Marion, Mass., radio.....fc, fx	WKCE	Evelyn.....b
WIO	Port Morgan, Ala., radio.....fx	WKCF	Ilelen.....b
WIR	Rocky Point, N. Y.....fx	WKCG	Hilton.....b
WIY	do.....fx	WKCH	Margaret.....b
WIZ	New Brunswick, N. J.....b	WKCI	Millinocket.....b
WJAA	Exton.....b	WKCJ	Ruth.....b
WJAO	Missoula.....b	WKCK	Jean.....b
WJCA	Currier.....b	WKCL	Paulsboro.....b
WJCB	Gulf of Mexico.....b	WKCM	Sierra.....b
WJCC	Gulfcoast.....b	WKCN	Resolute.....b
WJCD	Gulfland.....b	WKCO	Munbeaver.....b
WJCE	Gulfight.....b	WKCP	Caloria.....b
WJCF	Gulfmaid.....b	WKCQ	Richfield.....b
WJCG	Gulfoll.....b	WKCR	Malabar.....b
WJCH	Gulfqueen.....b	WKCS	Dulcino.....b
WJCI	Gulfstream.....b	WKCV	Pennsylvania.....b
WJ CJ	Ligonier.....b	WKCW	Coamo.....b
WJCK	Trinidadian.....b	WKCX	Maine.....b
WJCL	Winifred.....b	WKCY	Virginia.....b
WJCM	Senator Bailey.....b	WK CZ	Coastwise.....b
WJCN	Robert P. Clark.....b	WKD	Rocky Point, N. Y.....fx
WJCO	Gulfhawk.....b	WKDA	Seobeyville, N. J.....fc
WJCP	Gulfwing.....b	WKDB	Nanuk.....b
WJ CQ	Everett.....b	WKDC	Berwindglen.....b
WJCR	Felix Taussig.....b	WKDD	Dorothy.....b
WJCS	Lemuel Burrows.....b	WKDE	Plainfield, Ill.....fx
WJCT	Lewis K. Thurlow.....b	WKDF	State of Virginia.....b
WJCU	Melrose.....b	WKDG	Carissima.....b
WJCV	Newton.....b	WKDI	Akutan.....b
WJCW	Sewalls Point.....b	WKDJ	Margo.....b
WJCX	Stephen R. Jones.....b	WKDK	Peru.....b
WJCY	Walter D. Noyes.....b	WKDL	Theo.....fa, fx
WJCZ	William A. McKenney.....fx	WKDM	Miami, Fla.....b
WJD	New York, N. Y.....b	WKDN	Violet Ray.....b
WJDA	Jitney.....b	WKDO	Buddy.....b
WJDB	Shenango.....b	WKDP	Koyoia.....b
WJDC	Seven Seas.....b	WKDQ	Zeila.....fx
WJDD	George W. Mead.....b	WKEI	Sayville, N. Y.....b
WJDE	Dwight F. Davis.....b	WKIA	Fish Hawk.....b
WJDF	Migrant.....b	WKII	Willkeno.....b
WJDG	Lone Star.....b	WKJ	Rocky Point, N. Y.....fx
WJDH	Eleu.....b	WKK	Ceiba, P. R.....fc, fx
WJDI	Ida Mae.....b	WKL	Rocky Point, N. Y.....fx
WJDJ	Sage Brush.....b	WKM	do.....fx
WJDK	Wind Rush.....b	WKO	do.....fx
WJDL	Aztec.....b	WKP	do.....fx
WJDM	Satartia III.....b	WKQ	do.....fx
WJDN	Tidewater.....b	WKU	do.....b
WJDO	Alice Cooke.....b	WKUU	West Zeda.....fx
WJDP	John Kendall.....b	WKV	Rocky Point, N. Y.....fx
WJDQ	Lanikai.....b	WKZ	Cumberland, Md.....b
WJDR	Sobre Los Olas.....b	WLAA	Sarcoixie.....b
WJDS	Ballantrae.....b	WLAE	Barlow.....fa, fx
WJDT	Hualalai.....b	WLC	Rogers, Mich.....b
WJDU	Dorothy Cahill.....b	WLCA	Edgar F. Luckenbach.....b
WJDV	Astoria.....b	WLCB	Edward Luckenbach.....b
WJDY	Hies-Marø.....fx	WLCC	F. J. Luckenbach.....b
WJE	Rockport, Wash. (near).....b	WLCD	Julia Luckenbach.....b
WJEI	Admiral Peoples.....b	WLCE	K. I. Luckenbach.....b
WJEO	Phoenix.....b	WLCF	Katrina Luckenbach.....b



## COMMERCIAL LAND AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Station	Call signal	Station		
WLCG	Lillian Luckenbach.....	b	WNCH	Munplace.....	b
WLCH	Paul Luckenbach.....	b	WNCI	Munrio.....	b
WLCL	Florence Luckenbach.....	b	WNCJ	Munsomo.....	b
WLCM	Tampa.....	b	WNCK	Walter D. Munson.....	b
WLCN	William Isom.....	b	WNCM	City of Cleveland III.....	b
WLCO	Relay.....	b	WNCN	City of Detroit III.....	b
WLCP	Commercial Courier.....	b	WNCO	Santa Cecilia.....	b
WLCQ	Areher.....	b	WNCP	Delecto.....	b
WLCR	Dodeca.....	b	WNCR	Mahoe.....	b
WLCS	Corsair.....	b	WNCS	Venezuela.....	b
WLCT	Casiana.....	b	WNCT	Colombia.....	b
WLCU	Aloha.....	b	WNCU	Rosamond.....	b
WLCV	Vega.....	b	WNCV	Saugerties.....	b
WLCZ	Dauntless.....	b	WNCW	Ecuador.....	b
WLDD	Ludington, Mich.....	fc, fx	WNCX	Seminole.....	b
WLIA	Santa Teresa.....	b	WNCY	Santa Ana.....	b
WLL	Rocky Point, N. Y.....	fx	WNCZ	Rajah.....	b
WLO	Ocean Township, N. J.....	fx	WND	Ocean Township, N. J.....	fx
WLOO	Cadaretta.....	b	WNE	Bradenton, Fla.....	fx
WLP	Minneapolis, Minn.....	fx	WNEO	Dio.....	b
WMAE	H. W. Baxter.....	b	WNF	Lakeland, Fla.....	fx
WMAI	Makena.....	b	WNG	West Palm Beach, Fla.....	fx
WMAO	Makaweli.....	b	WNH	Miami, Fla.....	fx
WMB	West Reading, Pa.....	fx	WNII	Challenger.....	b
WMBN	Happy Days.....	b	WNL	Rocky Point, N. Y.....	fx
WMBP	Dawn Star.....	b	WNM	Lake City, Fla.....	fx
WMBT	Skylark III.....	b	WNN	Mobile, Ala. radio.....	fc, fx
WMBV	Lakeland.....	b	WNO	Alpena, Mich.....	b
WMCB	Enterprise.....	b	WNP	Palatka, Fla.....	fx
WMCB	Enterprise.....	b	WNQ	Fort Lauderdale, Fla.....	fx
WMCB	Enterprise.....	b	WNS	Punta Gorda, Fla.....	fx
WMCB	Enterprise.....	b	WNT	Sanford, Fla.....	fx
WMCB	Enterprise.....	b	WNU	New Orleans, La., radio.....	fc, fx
WMCB	Enterprise.....	b	WNUO	Brookdale.....	b
WMCB	Enterprise.....	b	WNV	St. Augustine, Fla.....	fx
WMCB	Enterprise.....	b	WNW	Philadelphia, Pa., radio.....	fc
WMCB	Enterprise.....	b	WNX	Daytona Beach, Fla.....	fx
WMCB	Enterprise.....	b	WNY	New York, N. Y. (borough of Brook- lyn), radio.....	fc
WMCB	Enterprise.....	b	WNZ	Fort Pierce, Fla.....	fx
WMCB	Enterprise.....	b	WOB	Connellsville, Pa.....	fx
WMCB	Enterprise.....	b	WOB	S. T. Crapo.....	b
WMCB	Enterprise.....	b	WOB	Zapala.....	b
WMCB	Enterprise.....	b	WOB	Larry Doheny.....	b
WMCB	Enterprise.....	b	WOB	Shawnee.....	b
WMCB	Enterprise.....	b	WOB	Rosario.....	b
WMCB	Enterprise.....	b	WOB	Nor'easter.....	b
WMCB	Enterprise.....	b	WOB	Commodore.....	b
WMCB	Enterprise.....	b	WOB	Carl D. Bradley.....	b
WMCB	Enterprise.....	b	WOB	General Ashburn.....	b
WMCB	Enterprise.....	b	WOB	C. C. Webber.....	b
WMCB	Enterprise.....	b	WOB	Gar, Sr. II.....	b
WMCB	Enterprise.....	b	WOB	Iolanda.....	b
WMCB	Enterprise.....	b	WOB	Nippekontu.....	b
WMCB	Enterprise.....	b	WOB	N. & K. No. 2.....	b
WMCB	Enterprise.....	b	WOB	Barney, jr.....	b
WMCB	Enterprise.....	b	WOB	Mimi.....	b
WMCB	Enterprise.....	b	WOB	D. G. Scofield.....	b
WMCB	Enterprise.....	b	WOB	Captain A. F. Lucas.....	b
WMCB	Enterprise.....	b	WOB	El Segundo.....	b
WMCB	Enterprise.....	b	WOB	Hawaiian Standard.....	b
WMCB	Enterprise.....	b	WOB	J. C. Fitzsimmons.....	b
WMCB	Enterprise.....	b	WOB	Richmond.....	b
WMCB	Enterprise.....	b	WOB	S. O. Co. No. 95.....	b
WMCB	Enterprise.....	b	WOB	J. A. Moffett.....	b
WMCB	Enterprise.....	b	WOB	A. C. Bedford.....	b
WMCB	Enterprise.....	b	WOB	Benjamin Brewster.....	b
WMCB	Enterprise.....	b	WOB	Charles Pratt.....	b
WMCB	Enterprise.....	b	WOB	F. Q. Barstow.....	b
WMCB	Enterprise.....	b	WOB	Fred W. Weller.....	b
WMCB	Enterprise.....	b	WOB	Glenpool.....	b
WMCB	Enterprise.....	b	WOB	H. H. Rogers.....	b
WMCB	Enterprise.....	b	WOB	H. M. Flagler.....	b
WMCB	Enterprise.....	b	WOB	Cities Service Toledo.....	b
WMCB	Enterprise.....	b	WOB	James McGee.....	b
WMCB	Enterprise.....	b	WOB	L. J. Drake.....	b
WMCB	Enterprise.....	b	WOB	O. T. Waring.....	b
WMCB	Enterprise.....	b	WOB	Pioneer.....	b
WMCB	Enterprise.....	b	WOB	Polarine.....	b
WMCB	Enterprise.....	b	WOB	Princeton.....	b



BROADCASTING STATIONS, ALPHABETICALLY BY STATES AND CITIES—Contd.

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
Hawaii:				Iowa:			
Honolulu	KGHB	1,320 (227.3)	250	Ames	WOI	560 (536)	3,500
Do	KGU	1,940 (319.4)	500	Boone	KFGQ	1,310 (229)	100
Idaho:				Cedar Rapids	KWCR	1,310 (229)	100
Boise	KIDO	1,250 (240)	1,000	Clarinda	KSO	1,380 (217.4)	500
Idaho Falls	KID	1,320 (227.3)	250	Council Bluffs	KOIL	1,260 (238.1)	<sup>3</sup> 2,500 <sup>4</sup> 1,000
Jerome	KFXD	1,420 (211.3)	50	Davenport	WOL	1,000 (300)	5,000
Pocatello	KSEL	900 (333)	250	Decorah	KWLC	1,270 (236.2)	100
Sandpoint	KGKK	1,420 (211.3)	15	Do	KGCA	1,270 (236.2)	50
Twin Falls	KGIQ	1,320 (227.3)	250	Des Moines	WHQ	1,000 (300)	1,000
Illinois:				Fort Dodge	KFJY	1,310 (229)	100
Addison <sup>11</sup>	WMAQ	670 (448)	5,000	Iowa City	WTSU	580 (517)	500
Do	WMBI	1,080 (277.8)	5,000	Marshalltown	KFJB	1,200 (250)	100
Batavia <sup>11</sup>	WORD	1,486 (202.7)	5,000	Muscatine	KTNT	1,170 (256.4)	5,000
Carthage	WCAZ	1,070 (280.4)	50	Ottumwa	WTAS	1,420 (211.3)	100
Chicago:				Red Oak	KICK	1,420 (211.3)	100
Do	KYW	1,020 (294.1)	<sup>8</sup> 5,000	Shenandoah	KFNF	890 (337)	<sup>3</sup> 1,000 <sup>4</sup> 500
Do	KFKX	1,020 (294.1)	<sup>9</sup> 10,000	Do	KMA	930 (323)	<sup>3</sup> 1,000 <sup>4</sup> 500
Do	KYWA	1,020 (294.1)	500	Sioux City	KSCJ	1,330 (225.6)	1,000
Do	WAAF	920 (326)	500	Waterloo	WMT	1,200 (250)	<sup>3</sup> 250 <sup>4</sup> 100
Do	WCFL	970 (309)	1,500	Kansas:			
Do	WCRW	1,210 (247.9)	100	Concordia	KGCN	1,420 (211.3)	50
Do	WEDC	1,210 (247.9)	100	Kansas City	WLBF	1,420 (211.3)	100
Do	WENR	870 (345)	<sup>8</sup> 25,000 <sup>9</sup> 50,000	Lawrence	KFKU	1,220 (245.9)	500
Do	WBCN	1,360 (220.6)	500	Do	WREN	1,220 (245.9)	1,000
Do	WGES	1,310 (229)	50	Manhattan	KSAC	580 (517)	<sup>3</sup> 1,000 <sup>4</sup> 500
Do	WKBI	1,310 (229)	50	Millford	KFKB	1,050 (285.7)	5,000
Do	WPCC	570 (526)	500	Topeka (near)	WBWB	1,300 (230.8)	<sup>3</sup> 2,500 <sup>4</sup> 1,000
Do	WSBC	1,210 (247.9)	100	Wichita	KFH	1,300 (230.8)	500
Do	WHFC	1,310 (229)	100	Kentucky:			
Cicero	WLS	870 (345)	5,000	Hopkinsville <sup>15</sup>	WFIW	940 (319)	1,000
Crete <sup>11</sup>	WJRL	1,200 (250)	100	Louisville	WHAS	820 (366)	5,000
Decatur	WSOA	1,480 (202.7)	5,000	Do	WLAP	1,200 (250)	30
Deerfield <sup>12</sup>	WSOA	1,480 (202.7)	<sup>3</sup> 1,500 <sup>4</sup> 1,000	VillaMadonna <sup>16</sup>	WCKY	1,480 (202.7)	5,000
Desplaines <sup>11</sup>	WIBO	570 (526)	25,000	Louisiana:			
Elgin	WGN	720 (417)	25,000	Kennerwood <sup>13</sup>	KWKH	850 (353)	10,000
Evanston	WLIB	1,310 (229)	100	New Orleans	WABZ	1,200 (250)	100
Galesburg	WEHS	1,310 (229)	100	Do	WDSU	1,270 (236.2)	1,000
Glenview <sup>11</sup>	WKBS	1,310 (229)	100	Do	WJBO	1,370 (219)	100
Harrisburg	WBMM	770 (390)	10,000	Do	WJBW	1,200 (250)	30
Joliet	WJBT	1,210 (247.9)	100	Do	WSMB	1,320 (227.3)	500
Do	WCLB	1,310 (229)	100	Do	WVL	850 (353)	5,000
Do	WKBB	1,310 (229)	100	Shreveport	KTSL	1,310 (229)	100
La Salle	WJBC	1,200 (250)	100	Do	KRMD	1,310 (229)	50
Do	WJJD	1,130 (265.5)	<sup>2</sup> 20,000 <sup>3</sup> 2,000	Do	KTBS	1,450 (206.9)	500
Do	WJAZ	1,480 (202.7)	5,000	Do	KWEA	1,210 (247.9)	100
Do	WMBD	1,440 (208.3)	<sup>3</sup> 1,000 <sup>4</sup> 500	Maine:			
Do	WTAD	1,440 (208.3)	500	Bangor	WABI	1,200 (250)	100
Do	KFLV	1,410 (212.8)	500	Do	WLBZ	620 (484)	<sup>3</sup> 250 <sup>4</sup> 500
Do	WHBF	1,210 (247.9)	100	Portland	WCSH	940 (319)	500
Do	WCBS	1,210 (247.9)	100	Maryland:			
Do	WTAX	1,210 (247.9)	50	Baltimore	WCAO	600 (500)	250
Do	WDZ	1,070 (280.4)	100	Do	WCBM	1,370 (219)	100
Do	WLL	890 (337)	<sup>3</sup> 500 <sup>4</sup> 250	Do	WFBR	1,270 (236.2)	250
Do	WCBD	1,050 (277.8)	5,000	Cumberland	WTBO	1,420 (211.3)	50
Indiana:				Glen Morris	WBAL	1,060 (283)	10,000
Anderson	WHBU	1,210 (247.9)	100	(near) <sup>15</sup>			
Brookville	WKBV	1,500 (200)	100	Salisbury	WSMD	1,310 (229)	100
Culver	WCMA	1,400 (214.3)	500	Massachusetts:			
Evansville	WGBF	630 (476)	500	Boston	WBZA	990 (303)	500
Fort Wayne	WGL	1,370 (219)	100	Do	WEEL	590 (509)	500
Do	WOWO	1,160 (258.6)	10,000	Do	WMES	1,500 (200)	50
Do	WJKS	1,360 (220.6)	<sup>3</sup> 1,250 <sup>4</sup> 500	Do	WSSH	1,420 (211.3)	<sup>3</sup> 250 <sup>4</sup> 100
Gary	WJAE	1,200 (250)	100	Chelsea <sup>17</sup>	WLOE	1,500 (200)	<sup>3</sup> 250 <sup>4</sup> 100
Hammond	WFBM	1,230 (243.9)	1,000	Dartmouth	WMAF	1,360 (220.6)	500
Indianapolis				East Spring-			
(near)				field <sup>18</sup>	WRZ	990 (303)	15,000
Indianapolis	WKBF	1,400 (214.3)	500	Fall River	WSAR	1,450 (206.9)	250
Laporte	WRAF	1,200 (250)	50	Gloucester	WEPS	1,200 (250)	100
Marion	WJAK	1,310 (229)	50	Do	WHDH	830 (361)	1,000
Muncie	WLBC	1,310 (229)	500				
South Bend	WSBT	1,230 (243.9)	500				
Terre Haute	WBOW	1,310 (229)	100				
Valparaiso	WRBC	1,240 (241.9)	500				
West Lafayette	WBAA	1,400 (214.3)	500				

BROADCASTING STATIONS, ALPHABETICALLY BY STATES AND CITIES—Contd.

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
Massachusetts—Continued.				Montana:			
Lexington.....	WLEY	1,420 (211.3)	{ 250 4 100	Billings.....	KGHL	950 (316)	500
Lexington (outskirts)	WLEX	1,360 (220.6)	500	Butte.....	KGIR	1,360 (220.6)	250
New Bedford..	WNBH	1,310 (229)	100	Havre.....	KFBB	1,360 (220.6)	500
Quincy.....	WNAO	1,230 (243.9)	1,000	Kallispeil.....	KGEZ	1,310 (229)	100
Webster.....	WKBE	1,200 (250)	100	Missoula.....	KOHD	1,420 (211.3)	50
Wellesley Hills	WBSO	780 (385)	250	Do.....	KUOM	570 (526)	500
Worcester.....	WTAG	580 (517)	250	Vida.....	KGCX	1,420 (211.3)	10
Michigan:				Nebraska:			
Battle Creek..	WKBP	1,420 (211.3)	50	Clay Center....	KMMJ	740 (405)	1,000
BerrienSprings	WBMC	590 (509)	1,000	Lincoln.....	KFOR	1,210 (247.9)	{ 250 4 100
Calumet.....	WHDF	1,370 (219)	100	Do.....	KFAB	770 (390)	5,000
Detroit.....	WAFD	1,500 (200)	100	Lincoln (University Place)	WCAJ	590 (509)	500
Do.....	WMBC	1,420 (211.3)	100	Norfolk.....	WJAG	1,060 (283)	1,000
Do.....	WVJ	920 (326)	1,000	Omaha.....	WAAW	660 (455)	500
East Lansing..	WKAR	1,040 (288.5)	1,000	Do.....	WOW	590 (509)	1,000
Flint.....	WFDF	1,310 (229)	100	Ravenna.....	KGFW	1,310 (247.9)	50
Fraser 19.....	WGPH	1,240 (241.9)	750	York.....	KGBZ	930 (323)	{ 1,000 4 500
Furnwood 20.....	WOOD	1,270 (236.2)	500	Nevada:			
Grand Rapids..	WASH	1,270 (236.2)	500	Las Vegas.....	KGIX	1,420 (211.3)	100
Hamp ton				Reno.....	KOH	1,370 (219)	100
Township 21..	WBCM	1,410 (212.3)	500	New Hampshire:			
Jackson.....	WIBM	1,370 (219)	100	Laconia.....	WKAV	1,310 (229)	100
Lapeer.....	WMPC	1,500 (200)	100	Tilton.....	WBRL	1,430 (209.8)	500
Ludington.....	WKBZ	1,500 (200)	50	New Jersey:			
Pontiac 19.....	WJR	750 (400)	5,000	Asbury Park... Atlantic City..	WCAP WPG	1,280 (234.4) 1,100 (272.7)	500 5,000
Royal Oak.....	WAGM	1,310 (229)	50	Bound Brook 25	WJZ	700 (395)	{ 25,000 30,000
Ypsilanti.....	WJBK	1,370 (219)	50	Camden.....	WCAM	1,280 (234.4)	500
Minnesota:				Carlstadt 25.....	WHAP	1,300 (230.8)	1,000
Anoka 22.....	WCCO	810 (370)	7,500	Cliffsides 26.....	WCDA	1,350 (222.2)	250
Collegeville..	WFBJ	1,370 (219)	100	Do.....	WPAP	1,010 (297)	250
Fergus Falls..	KGDE	1,200 (250)	50	Do 26.....	WQAO	1,010 (297)	250
Fridley.....	WRHM	1,250 (240)	1,000	Coytesville 26..	WRNY	1,010 (297)	250
Hallock.....	KGFK	1,200 (250)	50	Englewood			
Minneapolis..	WFDI	1,180 (254.2)	500	Cliffs.....	WHPP	1,420 (211.3)	10
Do.....	WDGJ	1,180 (254.2)	1,000	Fort Lee.....	WBMS	1,450 (206.9)	250
Do.....	WLB	1,250 (240)	500	Hoboken 26.....	WPCH	810 (370)	500
Northfield.....	KFMX	1,250 (240)	1,000	Do 26.....	WMAA	570 (526)	500
Do.....	KCAL	1,250 (240)	1,000	Jersey City....	WAAT	1,070 (280.4)	300
Westcott 23.....	KSTP	1,460 (205.5)	10,000	Do.....	WKBO	1,450 (206.9)	250
Mississippi:				Kearny 26.....	WLWL	1,100 (272.7)	5,000
Columbus.....	WCOC	880 (341)	500	Do 27.....	WOR	710 (423)	5,000
Greenville.....	WRBQ	1,210 (247.9)	100	Kenilworth 28..	WIBS	1,450 (206.9)	250
Gulfport.....	WGCM	1,210 (247.9)	100	Newark.....	WAAM	1,250 (240)	{ 2,000 4 1,000
Hattiesburg....	WRBJ	1,500 (200)	10	Do.....	WGCP	1,250 (240)	250
Jackson.....	WJDX	1,270 (236.2)	{ 1,000 4 500	Do.....	WNJ	1,450 (206.9)	250
Utica.....	WQBC	1,360 (220.6)	300	Paterson.....	WODA	1,250 (240)	1,000
Missouri:				Red Bank.....	WJBI	1,210 (247.9)	100
Cape Girardeau	KFVS	1,210 (247.9)	100	Secaucus 28.....	WQV	1,130 (265.5)	1,000
Clayton.....	KFUO	550 (545)	{ 1,000 4 500	Trenton.....	WOAX	1,280 (234.4)	500
Columbia.....	KFRU	630 (476)	500	New Mexico:			
Independence 34	KMBC	950 (316)	{ 2,500 4 1,000	Albuquerque... Raton..... State College..	KGGM KGFL KOB	1,230 (243.9) 1,350 (222.2) 1,180 (254.2)	500 50 10,000
Jefferson City..	WOS	630 (476)	{ 4,500 3 250	New York:			
Joplin.....	WMBH	1,420 (211.3)	{ 4 100 500	Amerst 29.....	WKBW	1,470 (204.1)	5,000
Kansas City... Do..... Do..... Do.....	WHB KWKC WDAF WOQ	950 (316) 1,370 (219) 610 (492) 610 (492)	500 100 1,000 1,000	Do.....	WGR	550 (545)	1,000
Kirksville.....	KFKZ	1,200 (250)	15	Astoria 30.....	WGBS	1,180 (254.2)	500
Kirkwood 36.....	KMOX	1,090 (275.2)	5,000	Auburn.....	WMBO	1,370 (219)	100
St. Joseph.....	KFEQ	560 (536)	2,500	Bay Shore.....	WINR	1,210 (247.9)	100
Do.....	KGBX	1,370 (219)	100	Bellmore 35.....	WEAF	660 (445)	{ 25,000 50,000
St. Louis.....	KSD	550 (545)	500	Binghamton (near)	WNBF	1,500 (200)	50
Do.....	KFWF	1,200 (250)	100	Brooklyn.....	WBBC	1,400 (214.3)	500
Do.....	KWK	1,350 (222.2)	1,000	Do.....	WLTH	1,400 (214.3)	500
Do.....	WEW	760 (395)	1,000	Do.....	WMBQ	1,500 (200)	100
Do.....	WIL	1,200 (250)	{ 250 4 100	Do.....	WSGH	1,400 (214.3)	500
Do.....	WMAY	1,200 (250)	{ 250 4 100	Do.....	WSDA	1,400 (214.3)	200
				Buffalo.....	WEBR	1,310 (229)	{ 3 500 4 100
				Do.....	WSVS	1,370 (219)	50
				Canton.....	WCAD	1,220 (243.9)	500

BROADCASTING STATIONS, ALPHABETICALLY BY STATES AND CITIES—Contd.

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
<b>New York—Con.</b>				<b>Oklahoma:</b>			
Cazenovia	WMAC	570 (526)	250	Alva	KGFF	1,420 (211.3)	100
Coney Island	WCGU	1,400 (214.3)	500	Chickasha	KOCW	1,400 (214.3)	500
Forest Hills	WEVD	1,300 (230.8)	500	Enid	KCRC	1,370 (219)	100
Freeport	WGBB	1,210 (247.9)	100	Norman	WNAD	1,010 (297)	500
Grand Island <sup>29</sup>	WKEN	1,040 (288.5)	1,000	Oklahoma City	KFJF	1,470 (204.1)	5,000
Greenville <sup>30</sup>	WCOH	1,210 (247.9)	100	Do.	KGFG	1,370 (219)	100
Ithaca	WEAI	1,270 (236.2)	500	Do.	KFXR	1,310 (229)	100
Do.	WLCI	1,210 (247.9)	50	Do.	WKY	900 (333)	1,000
Jamaica	WMRJ	1,420 (211.3)	10	Picher	KGGF	1,010 (297)	500
Jamestown	WOCL	1,210 (247.9)	25	Ponca City	WBBZ	1,200 (250)	100
Long Beach	WCLB	1,500 (200)	100	Tulsa	KVOO	1,140 (263.2)	5,000
Long Island	WLBX	1,500 (200)	100	Oregon:			
Martinsville <sup>29</sup>	WMAK	900 (333)	750	Astoria	KFJI	1,370 (219)	100
Mount Beacon <sup>31</sup>	WOKO	1,440 (208.3)	500	Corvallis	KOAC	560 (536)	1,000
New York	WABC	860 (349)	5,000	Eugene	KORE	1,420 (211.3)	100
Do.	WBOQ			Marshfield	KOOS	1,370 (219)	50
Do.	WBNY	1,350 (222.2)	250	Medford	KMED	1,310 (229)	50
Do.	WHN	1,010 (297)	250	Portland	KEX	1,180 (254.2)	5,000
Do.	WKBQ	1,350 (222.2)	250	Do.	KPFI	1,420 (211.3)	100
Do.	WMSG	1,350 (222.2)	250	Do.	KFJR	1,300 (230.8)	500
Do.	WNYC	570 (526)	500	Do.	KGW	620 (484)	1,000
Patchogue	WPOE	1,420 (211.3)	300	Do.	KTBR	1,300 (230.8)	500
			40	Do.	KWBS	1,500 (200)	15
Rochester	WHEC	1,440 (208.3)	300	Do.	KWJJ	1,060 (283)	500
	WABO		450	Do.	KXL	1,250 (240)	500
Rossville	WBBR	1,300 (230.8)	1,000	Sylvan	KOIN	940 (319)	1,000
Saranac Lake	WNBZ	1,290 (232.6)	50	Pennsylvania: <sup>34</sup>			
South Schenectady	WGY	790 (380)	50,000	Allentown	WCBA	1,440 (208.3)	250
Syracuse	WFBL	1,490 (201.3)	1,000	Do.	WSAN	1,440 (208.3)	250
Do.	WSYR	570 (526)	250	Altoona	WFBQ	1,310 (229)	100
Troy	WHAZ	1,300 (230.8)	500	Byberry <sup>35</sup>	WCAU	1,170 (256.4)	10,000
Tupper Lake	WHDL	1,420 (211.3)	10	Carbondale	WNBW	1,200 (250)	5
Utica	WIBX	1,200 (250)	300	Elkins Park	WIBG	930 (323)	50
			400	Erie	WFDH	1,420 (211.3)	30
Victor Township	WHAM	1,150 (260.9)	5,000	Do.	WRAK	1,370 (219)	50
Woodside	WRRL	1,500 (200)	100	Grove City	WBAJ	1,430 (209.8)	110
North Carolina:				Harrisburg	WBAK	1,430 (209.8)	500
Asheville	WWNC	570 (526)	1,000	Do.	WOD	1,200 (250)	100
Gastonia	WRBU	1,210 (247.9)	100	Johnstown	WJAC	1,310 (229)	100
Charlotte	WBT	1,080 (277.8)	5,000	Do.	WGAL	1,310 (229)	100
Greensboro	WNRC	1,440 (208.3)	250	Lancaster	WKJC	1,200 (250)	15
Raleigh	WPTF	680 (441)	1,000	Do.	WHIP	1,430 (209.8)	500
Wilmington	WRBT	1,370 (219)	100	Lemoyne <sup>36</sup>	WJBU	1,260 (247.9)	100
North Dakota:				Lewisburg	WLBV	1,260 (247.9)	500
Bismarck	KFYR	550 (545)	500	Oil City	WLBV	1,260 (247.9)	100
Devils Lake	KDLR	1,210 (247.9)	100	Philadelphia	WABY	1,310 (229)	50
Grand Forks	KFJM	1,370 (219)	100	Do.	WELK	1,370 (219)	100
Mandan	KGCU	1,200 (250)	100	Do.	WFAN	610 (492)	500
West Fargo	WDAY	1,280 (234.4)	1,000	Do.	WFI	560 (536)	500
Ohio:				Do.	WHBW	1,500 (200)	100
Akron	WADC	1,320 (227.3)	1,000	Do.	WIP	610 (492)	500
Do.	WFJC	1,450 (206.9)	500	Do.	WLIT	560 (526)	500
Bellefontaine	WHBD	1,370 (219)	100	Do.	WNAT	1,310 (229)	100
Cambridge	WEBE	1,210 (247.9)	100	Do.	WPSW	1,500 (200)	50
Canton	WHBC	1,200 (250)	10	Do.	WRAX	1,020 (294.1)	250
Cincinnati	WFBE	1,200 (250)	100	Philadelphia	WFKD	1,310 (229)	50
Do.	WKRC	550 (545)	500	Frankfort	KQV	1,380 (217.4)	500
Cleveland	WEAR	1,070 (280.4)	1,000	Pittsburgh	WCAE	1,220 (245.9)	500
Do.	WHK	1,390 (215.8)	1,000	Do.	WJAS	1,290 (232.6)	1,000
Do.	WJAY	620 (484)	500	Do.	WRAW	1,310 (229)	100
Do.	WTAM	1,070 (280.4)	3,500	Reading	WGBI	880 (341)	250
Columbus	WCAH	1,430 (209.8)	500	Seranton	WQAN	880 (341)	250
Do.	WAFU	640 (469)	500	Do.	WQAN	880 (341)	250
Do.	WEAO	570 (526)	750	State College	WPSC	1,230 (243.9)	500
Do.	WMAN	1,210 (247.9)	50	Washington	WNBO	1,200 (250)	100
Dayton	WDMK	1,380 (217.4)	200	Wilkes-Barre	WBAX	1,210 (247.9)	100
Hamilton	WRK	1,310 (229)	100	Do.	WBRE	1,310 (229)	100
Harrison <sup>32</sup>	WSAI	1,330 (225.6)	500	Wilkinsburg <sup>37</sup>	WMBJ	1,500 (200)	100
Mansfield	WJW	1,210 (247.9)	100	Do. <sup>37</sup>	KDKA	980 (306)	25,000
Mason <sup>33</sup>	WLW	700 (429)	25,000	Philippine Islands:			
Do.			50,000	Manila	KZIB	1,153 (260)	20
Springfield	WCSD	1,450 (206.9)	500	Do.	KZKZ	1,110 (270.3)	100
Steubenville	WIBR	1,420 (211.3)	50	Do.	KZRM	726 (413)	1,000
Toledo	WSPD	1,340 (223.9)	500	Porto Rico: San Juan	WKAQ	890 (337)	500
Youngstown	WKBN	570 (526)	500				



BROADCASTING STATIONS, ALPHABETICALLY BY STATES AND CITIES—Contd.

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
<b>Rhode Island:</b>				<b>Texas—Contd.</b>			
Cranston <sup>38</sup>	WDWF	1,210 (247.9)	100	San Antonio	KTSA	1,290 (232.6)	{ 2,000 4,000
Newport	WLBI		100	Do.	WOAI	1,190 (252.1)	5,000
Pawtucket	WPAW		100	Waco	WJAD	1,240 (241.9)	1,000
Providence	WEAN	550 (545)	{ 3,500 4,250	Wichita Falls	KGKO	570 (526)	250
Do.	WJAR	890 (337)	{ 3,400 4,250	<b>Utah:</b>			
<b>South Carolina:</b>				Ogden	KLO	1,370 (219)	{ 2,200 4,100
Charleston	WBBY	1,220 (250)	75	Salt Lake City	KDYL	1,290 (232.6)	1,000
<b>South Dakota:</b>				Do.	KSL	1,130 (265.5)	5,000
Brookings	KFDY	550 (545)	{ 3,1,000 4,500	<b>Vermont:</b>			
Del Rapids	KGDA	1,370 (219)	50	Burlington	WCAX	1,200 (250)	100
Oldham	KGDY	1,200 (250)	15	Springfield	WNBX	1,200 (250)	10
Pierre	KGFX	580 (517)	200	<b>Virginia:</b>			
Rapid City	WGAT	1,200 (250)	100	Arlington	NAA	690 (435)	1,000
Sioux Falls	KSOO	1,110 (270.3)	2,000	Emory	WJDW	1,370 (219)	250
Vermillion	KUSD	890 (337)	{ 2,750 4,500	Ettrick <sup>40</sup>	WLBG	1,200 (250)	{ 2,100 4,100
Watertown	KGCR	1,210 (247.9)	100	Mount Vernon Hills	WJSV	1,460 (205.5)	10,000
Yankton	WNAX	570 (526)	1,000	Newport News	WGH	1,310 (229)	100
<b>Tennessee:</b>				Norfolk	WBBW	1,270 (236.2)	100
Bristol	WOPI	1,500 (200)	100	Do.	WTAR	780 (385)	500
Chatanooga	WDOD	1,280 (234.4)	{ 2,2,500 4,1,000	Portsmouth	WSEA	1,140 (263.2)	500
Knoxville	WFBC	1,200 (250)	500	Richmond	WBBL	1,370 (219)	100
Do.	WNOX	560 (536)	1,000	Do.	WMBG	1,210 (247.9)	100
Do.	WNBZ	1,310 (229)	50	Do.	WRVA	1,110 (270.3)	1,000
Lawrenceburg	WGAY	600 (500)	500	Roanoke	WDBJ	930 (323)	{ 2,500 4,250
Memphis	WGBC	1,430 (209.8)	500	<b>Washington:</b>			
Do.	WHBQ	1,370 (219)	100	Aberdeen	KXRO	1,420 (211.3)	70
Do.	WMC	780 (385)	{ 1,1,000 4,500	Bellingham	KVOS	1,200 (250)	100
Do.	WMBM	1,500 (200)	10	Des Moines (near) <sup>41</sup>	KVI	760 (395)	1,000
Do.	WNBK	1,430 (209.8)	500	Everett	KFBI	1,370 (219)	50
Nashville	WTNT	1,490 (201.3)	5,000	Lacey	KGY	1,250 (250)	{ 3,50 4,10
Do.	WLAC	1,490 (201.3)	5,000	Longview	KUJ	1,500 (200)	10
Do.	WSM	650 (462)	5,000	Pullman	KWSC	1,390 (215.8)	500
Springfield	WSIX	1,210 (247.9)	100	Seattle	KOL	1,270 (236.2)	1,000
Union City	WGBT	1,310 (229)	15	Do.	KFQW	1,420 (211.3)	100
Whitelaven <sup>39</sup>	WREC	600 (500)	{ 2,1,000 4,600	Do.	KJR	970 (300)	5,000
<b>Texas:</b>				Do.	KOMO	920 (326)	1,000
Abilene	KFYO	1,420 (211.3)	{ 3,250 4,100	Do.	KPCB	1,210 (247.9)	100
Amarillo	WDAG	1,410 (212.8)	250	Do.	KPQ	1,210 (247.9)	100
Do.	KGRS	1,410 (212.8)	1,000	Do.	KRSC	1,120 (267.9)	50
Austin	KUT	1,120 (267.9)	500	Do.	KTW	1,270 (236.2)	1,000
Beaumont	KFDM	560 (536)	500	Do.	KVL	1,370 (219)	100
Brownsville	KWVG	1,260 (238.1)	500	Do.	KXA	570 (526)	500
Brownwood	KGKB	1,500 (200)	100	Spokane	KFIO	1,230 (243.9)	100
College Station	WTAW	1,120 (267.9)	500	Do.	KFPY	1,390 (215.8)	500
Corpus Christi	KGFI	1,550 (200)	100	Do.	KGA	1,470 (204.1)	5,000
Dallas	WFAA	800 (375)	500	Do.	KHQ	590 (509)	1,000
Do.	KRLD	1,040 (288.5)	10,000	Tacoma	KMO	1,340 (223.9)	500
Do.	WRR	1,280 (234.4)	500	Yakima	KIT	1,370 (219)	50
Dublin	KFPL	1,310 (229)	15	<b>West Virginia:</b>			
El Paso	WDAH	1,310 (229)	100	Bluesfield	WHIS	1,420 (211.3)	100
Do.	KTSM	1,310 (229)	100	Charleston	WOBU	580 (517)	250
Fort Worth	KFJZ	1,370 (219)	100	Fairmont	WMMN	890 (337)	{ 3,500 4,250
Do.	KTAT	1,240 (241.9)	1,000	Huntington	WSAZ	580 (617)	250
Do.	WBAP	800 (375)	{ 2,25,000 8,50,000	Weirton	WQBZ	1,420 (211.3)	60
Galveston	KFLX	1,370 (219)	100	Wheeling	WVVA	1,160 (258.6)	250
Do.	KFUL	1,290 (232.6)	500	<b>Wisconsin:</b>			
Greenville	KFPN	1,310 (229)	15	Beloit	WEBW	600 (500)	350
Harlingen	KRGV	1,260 (238.1)	500	Brookfield <sup>42</sup>	WTMJ	620 (484)	{ 2,2,000 4,1,000
Houston	KPRC	920 (326)	1,000	Fond du Lac	KFIZ	1,420 (111.3)	100
Do.	KTUE	1,420 (211.3)	5	Kenosha	WCLO	1,200 (250)	100
Richmond	KGHX	1,500 (200)	50	La Crosse	WKBH	1,380 (217.4)	1,000
San Angelo	KGKL	1,370 (219)	100	Madison	WHB	940 (319)	750
San Antonio	KGCI	1,370 (219)	100	Do.	WIBA	1,210 (247.9)	100
Do.	KGDR	1,500 (200)	100	Manitowoc	WOMT	1,210 (247.9)	100
Do.	KTAP	1,420 (211.3)	100	Milwaukee	WHAD	1,120 (267.9)	250
Do.	KGRC	1,370 (219)	100	Do.	WISN	1,120 (267.9)	250



BROADCASTING STATIONS, ALPHABETICALLY BY STATES AND CITIES—Contd.

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
Wisconsin—Con.				Wisconsin—Con.			
Poynette.....	WIBU	1,310 (229)	100	Washington....	WTAQ	1,330 (225.6)	1,000
Racine.....	WRJN	1,370 (219)	100	West De Pere...	WHBY	1,200 (250)	100
Sheboygan.....	WHBL	1,410 (212.8)	500	Wyoming: Laramie.	KWYO	600 (500)	500
Stevens Point...	WLBI	900 (333)	2,000				
Superior <sup>43</sup> .....	WEBC	1,280 (234.4)	1,000				

<sup>1</sup> Studio at Hollywood.

<sup>2</sup> Studio at Pomona.

<sup>3</sup> Day.

<sup>4</sup> Night.

<sup>5</sup> Studio at Los Angeles.

<sup>6</sup> Only Construction Permit issued.

<sup>7</sup> Studio at Hartford.

<sup>8</sup> Normally.

<sup>9</sup> Experimentally.

<sup>10</sup> Studio at Bridgeport.

<sup>11</sup> Studio at Chicago.

<sup>12</sup> Studio at Forest Park.

<sup>13</sup> Studio at Louisville.

<sup>14</sup> Studio at Covington.

<sup>15</sup> Additional studios at Shreveport.

<sup>16</sup> Studio at Baltimore.

<sup>17</sup> Studio at Boston.

<sup>18</sup> Studio at Springfield.

<sup>19</sup> Studio at Detroit.

<sup>20</sup> Studio at Grand Rapids.

<sup>21</sup> Studio at Bay City.

<sup>22</sup> Studio at Minneapolis.

<sup>23</sup> Studio at St. Paul.

<sup>24</sup> Studio at Kansas City.

<sup>25</sup> Studio at St. Louis.

<sup>26</sup> Studio at New York.

<sup>27</sup> Studio at Newark.

<sup>28</sup> Studio at Elizabeth.

<sup>29</sup> Studio at Buffalo.

<sup>30</sup> Studio at Yonkers.

<sup>31</sup> Studio at Poughkeepsie.

<sup>32</sup> Studio at Rochester.

<sup>33</sup> Studio at Cincinnati.

<sup>34</sup> Studio at Portland.

<sup>35</sup> Studio at Philadelphia.

<sup>36</sup> Studio at Harrisburg.

<sup>37</sup> Studio at Pittsburgh.

<sup>38</sup> Studio at Providence.

<sup>39</sup> Studio at Memphis.

<sup>40</sup> Studio at Petersburg.

<sup>41</sup> Studio at Tacoma.

<sup>42</sup> Studio at Milwaukee.

<sup>43</sup> Studio at Duluth.

<sup>44</sup> Studio at Eau Claire.

## BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS

Call signal	Location of transmitter and mail address	Owner	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
KCRC	Enid, Okla.....	Champlin Refining Co.....	1,370 (219)	100
KDB	Santa Barbara, Calif., 1212 State St.....	Santa Barbara Broadcasting Co.	1,500 (200)	100
KDKA	Wilkesburg, Pa. 1*.....	Westinghouse Electric and Mfg Co.	980 (306)	25,000
KDLR	Devils Lake, N. Dak.....	Radio Electric Co.....	1,210 (247.9)	100
KDYL	Salt Lake City, Utah, Ezra Thompson Bldg.	Intermountain Broadcasting Corp.	1,290 (232.6)	1,000
KEJK	Beverly Hills, Calif., Wiltshire Blvd.	R. S. MacMillan.....	1,170 (258.4)	500
KELW	Burbank, Calif., 3702 Magnolia Ave.	Earl L. White.....	780 (385)	500
KEX	Portland, Oreg., East Gleason St. and Buckley Ave.	Western Broadcasting Co.....	1,180 (254.2)	5,000
KFAB	Lincoln, Nebr., Thirteenth and Q Sts.	Nebraska Buick Auto Co.....	770 (390)	5,000
KFAD	Phoenix, Ariz., 316 North Central Ave.	Electrical Equipment Co.....	820 (484)	500
KFB	Havre, Mont.....	Buttrety Broadcast (Inc.).....	1,360 (220.6)	500
KFBK	Sacramento, Calif., 607 K St.	James McClatchy Co.....	1,310 (229)	100
KFBL	Everett, Wash., 2814 Rucker Ave.	Leese Bros.....	1,370 (219)	50
KFDM	Beaumont, Tex.....	Magnolia Petroleum Co.....	560 (536)	500
KFDY	Brookings, S. Dak.....	South Dakota State College.....	550 (545)	1,000
KFEL	Denver, Colo.....	Eugene P. O'Fallon (Inc.).....	940 (319)	500
KFFQ	St. Joseph, Mo.....	Scroggin & Co. Bank.....	580 (536)	250
KFGQ	Boone, Iowa, 924 West Second St.	Boone Biblical College.....	1,310 (229)	2,500
KFH	Wichita, Kans.....	Radio Station KFH Co.....	1,300 (230.8)	100
KFHA	Gunnison, Colo.....	Western State College of Colorado.	1,200 (250)	500
KFI	Los Angeles, Calif., 1000 South Hope St.	Earle C. Anthony (Inc.).....	640 (469)	5,000
KFIF	Portland, Oreg.....	Benson Polytechnic Institute.	1,420 (211.3)	100
KFIO	Spokane, Wash.....	North Central High School.....	1,230 (243.9)	100
KFIU	Juneau, Alaska.....	Alaska Electric Light & Power Co.	1,310 (229)	10
KFIZ	Fon du Lac, Wis., 18 West First St.	Reporter Printing Co.....	1,420 (211.3)	100
KFJB	Marshalltown, Iowa.....	Marshall Electric Co.....	1,200 (250)	100
KFJF	Oklahoma City, Okla., Security Bldg.	National Radio Mfg. Co.....	1,470 (204.1)	5,000
KFJJ	Astoria, Oreg.....	George Kincaid.....	1,370 (219)	100
KFJM	Grand Forks, N. Dak.....	University of North Dakota.....	1,370 (219)	100
KFJR	Portland, Oreg., 95 Fifth St.	Ashley C. Dixon & Son.....	1,300 (230.8)	500
KFJY	Fort Dodge, Iowa.....	C. S. Tunwall.....	1,310 (229)	100
KFJZ	Fort Worth, Tex., 1214 M St.	H. C. Meacham.....	1,370 (219)	100
KFKA	Greeley, Colo.....	Colorado State Teachers College.	880 (341)	1,000
KFKB	Milford, Kans.....	J. R. Brinkley, M. D.....	1,050 (285.7)	5,000
KFKU	Lawrence, Kans.....	University of Kansas.....	1,220 (245.9)	500
KFKX	Chicago, Ill.....	Westinghouse Electric & Mfg. Co.	1,020 (294.1)	5,000
KFKZ	Kirksville, Mo.....	Northeast Missouri State Teachers College.	1,200 (250)	10,000
KFLX	Galveston, Tex., 3327 Avenue P	George R. Clough.....	1,370 (219)	100
KFLV	Rockford, Ill., 1503 Fourth Ave.	A. T. Frykman.....	1,410 (212.8)	500
KFMX	Northfield, Minn.....	Carleton College.....	1,250 (240)	1,000
KFNF	Shenandoah, Iowa.....	Henry Field Seed Co.....	890 (337)	1,000
KFOR	Lincoln, Nebr.....	Howard A. Shuman.....	1,210 (247.9)	250
KFOX	Long Beach, Calif., 220 East Anaheim St.	Nichols & Warinner (Inc.).....	1,250 (240)	100
KFPL	Dublin, Tex., 205 Grafton St.	C. C. Baxter.....	1,310 (229)	15
KFPM	Greenville, Tex.....	New Furniture Co.....	1,310 (229)	15
KFPW	Siloam Springs, Ark.....	Rev. Lannie W. Stewart.....	1,340 (223.9)	15
KFPY	Spokane, Wash.....	Symons Broadcasting Co.....	1,390 (215.8)	500
KFQA	Kirkwood, Mo.....	The Principia.....	1,090 (275.2)	5,000
KFQD	Anchorage, Alaska.....	Anchorage Radio Club.....	1,230 (243.9)	100
KFQU	Alma (Holy City), Calif.....	W. E. Riker.....	1,420 (211.3)	100
KFV	Seattle, Wash., 315 Seneca St.	KFV, (Inc.).....	1,420 (211.3)	100
KFQZ	Hollywood, Calif., 1641 North Argyle Ave.	Taft Radio & Broadcasting Co. (Inc.).....	860 (349)	250
KFRO	San Francisco, Calif.....	Don Lee (Inc.).....	610 (492)	1,000

\* See footnotes to this table on p. 121.

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Owner	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
KFRU	Columbia, Mo.	Stephens College	630 (476)	500
KFSD	San Diego, Calif., 326 Broadway	Airfan Radio Corp.	600 (500)	1,000
KFSG	Los Angeles, Calif., 1100 Glendale Blvd.	Echo Park Evangelistic Assn.	1,120 (267.9)	500
KFUL	Galveston, Tex., 2126 Market St.	Will H. Ford	1,200 (232.6)	500
KFUM	Colorado Springs, Colo., 12 South Nevada Ave.	W. D. Corley	1,270 (236.2)	1,000
KFUO	Clayton, Mo.	Concordia Theological Seminary	550 (545)	1,000
KFUP	Denver, Colo.	Fitzsimons General Hospital	1,310 (229)	100
KFVD	Culver City, Calif., 6400 Washington Blvd., San Pedro, Calif.	Los Angeles Broadcasting Co.	710 (423)	250
KFVS	Cape Girardeau, Mo., 312 South Frederick St.	Hirsch Battery & Radio Co. (Oscar C. Hirsch)	1,210 (247.9)	100
KFWB	Hollywood, Calif.	Warner Bros. Broadcasting Corp.	950 (316)	1,000
KFWC	Ontario, Calif.	James R. Fouch	1,200 (250)	100
KFWF	St. Louis, Mo., 4030 Lindell Blvd.	St. Louis Truth Center	1,200 (250)	100
KFWI	San Francisco, Calif., 1400 Van Ness Ave.	Radio Entertainments (Inc.)	930 (323)	500
KFWM	Oakland, Calif., 1520 Eighth Ave.	Oakland Educational Society	930 (323)	500
KFXD	Jerome, Idaho	Service Radio Co.	1,420 (211.3)	50
KFXF	Denver, Colo., 209 Sixteenth St.	Pikes Peak Broadcasting Co.	940 (319)	250
KFXJ	Edgewater, Colo., 2938 Benton St.	R. G. Howell	1,310 (229)	50
KFXR	Oklahoma, Okla., 1305 Pennsylvania St.	Exchange Ave. Baptist Church	1,310 (229)	100
KFXY	Flagstaff, Ariz.	Mary M. Costigan	1,420 (211.3)	100
KFYO	Abilene, Tex.	Kirksey Bros. Battery & Electric Co.	1,420 (211.3)	4,250
KFYr	Bismarck, N. Dak., 200 Fourth St.	Hoskins-Meyer (Inc.)	550 (545)	500
KGA	Seattle, Wash., Liggett Bldg.	Northwest Radio Service Co.	1,470 (204.1)	5,000
KGAR	Tucson, Ariz., Twelfth St. and Sixth Ave.	Tucson Motor Service Co.	1,370 (219)	100
KGB	San Diego, Calif., 207 Electric Bldg.	Pickwick Broadcasting Corp.	1,360 (220.6)	250
KGBU	Ketchikan, Alaska	Alaska Radio & Service Co.	900 (333)	500
KGBX	St. Joseph, Mo., 1829-1837 Colhoun St.	Foster-Hall Tire Co.	1,370 (219)	100
KGBZ	York, Nebr., 715 Grant Ave.	Dr. George R. Miller	930 (323)	4,500
KGCA	Decorah, Iowa	Charles W. Greenley	1,270 (236.2)	50
KGCI	San Antonio, Tex., 409 South Flores St.	Liberto Radio Sales	1,370 (219)	100
KGCN	Concordia, Kans.	Concordia Broadcasting Co.	1,420 (211.3)	50
KGCR	Watertown, S. Dak., 502 Fifth St.	Cutler's Radio Broadcasting Service (Inc.)	1,210 (247.9)	100
KGCU	Mandan, N. Dak.	Mandan Radio Assn. (Inc.)	1,200 (250)	100
KGCX	Vida, Mont.	First State Bank of Vida	1,420 (211.3)	10
KGDA	Dell Rapids, S. Dak.	Home Auto Co.	1,370 (219)	50
KGDE	Fergus Falls, Minn.	Charles L. Jaren (Jaren Drug Co.)	1,200 (250)	50
KGDM	Stockton, Calif., 42 South California St.	E. F. Peffer	1,100 (272.7)	50
KGDR	San Antonio, Tex., 206 Laurel Heights Place.	KGDR Broadcasting Co.	1,500 (200)	100
KGDY	Oldham, S. Dak.	J. Albert Loesch	1,200 (250)	15
KGEF	Los Angeles, Calif.	Trinity Methodist Church	1,300 (230.8)	1,000
KGEK	Yuma, Colo., 109 West Second Ave.	Beghler Electrical Equipment Co.	1,200 (250)	50
KGER	Long Beach, Calif., 435 Pine Ave.	C. Merwin Dolyns	1,370 (219)	100
KGEW	Fort Morgan, Colo.	City of Fort Morgan	1,200 (250)	100
KGEZ	Kalispell, Mont., Elks Temple	Kalispell Chamber of Commerce	1,300 (229)	100
KGFF	Alva, Okla., Bell Hotel Bldg.	KGFF Broadcasting Co.	1,420 (211.3)	100
KGFG	Oklahoma, Okla.	Faith Tabernacle Assn.	1,370 (219)	100
KGFI	Corpus Christi, Tex.	Eagle Broadcasting Co.	1,500 (200)	100
KGfJ	Los Angeles, Calif., 2333 West Twenty-first St.	Ben S. McGlashan	1,420 (211.3)	100
KGfK	Hallock, Minn.	R. W. Lautzenheiser, O. R. Mitchell, and J. E. Bouvette	1,200 (250)	50
KGfL	Baton, N. Mex., 200 Fourth St.	N. L. Cotter	1,350 (222.2)	50
KGfW	Ravenna, Nebr., 318 Grand Ave.	Otto F. Sothman	1,310 (229)	50
KGfX	Pierre, S. Dak., 510 Summit Ave.	Dana McNeil	580 (517)	200
KGfG	San Francisco, Calif.	Golden Gate Broadcasting Co.	1,420 (211.3)	50
KGfI	Picher, Okla.	Dr. D. L. Connell	1,010 (297)	500
KGfM	Albuquerque, N. Mex.	New Mexico Broadcasting Co.	1,230 (243.9)	500
KGfB	Honolulu, Hawaii, 1227 South Boretania St.	Radio Sales Co.	1,320 (227.3)	250
KGHD	Missoula, Mont., 542 South Third St. West.	Elmore-Nash Broadcasting Corp.	1,420 (211.3)	50
KGfF	Pueblo, Colo.	Curtis P. Ritchie and Joe E. Finch.	1,320 (227.3)	250

## BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Owner	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
KGHG	McGehee, Ark.	Charles W. McCollum	1,310 (229)	50
KGHI	Little Rock, Ark.	Berean Bible Class.	1,600 (200)	100
KGHL	Billings, Mont., Fifth Ave. and North Broadway.	Northwestern Auto Supply Co.	950 (316)	500
KGHX	Richmond, Tex.	Fort Bend County School Board.	1,500 (200)	50
KGIQ	Twin Falls, Idaho, 262 Third Ave. W.	Radio Broadcasting Corp.	1,320 (227.3)	250
KGIR	Butte, Mont., 200 East Broadway	Symons Broadcasting Co.	1,360 (220.6)	250
KGIW	Trinidad, Colo., 328 North Commercial St.	Trinidad Creamery Co.	1,420 (211.3)	100
KGIX	Las Vegas, Nev., 194 South Fourth St.	J. M. Heaton	1,420 (211.3)	100
KGJF	Little Rock, Ark.	First Church of the Nazarene.	890 (337)	250
KGKB	Brownwood, Tex.	Eagle Publishing Co.	1,500 (200)	100
KGKL	San Angelo, Tex.	KGKL (Inc.)	1,370 (219)	100
KGKO	Wichita Falls, Tex.	Wichita Falls Broadcasting Co.	570 (526)	250
KGKX	Sandpoint, Idaho, P. O. Box 264	C. E. Twiss	1,420 (211.3)	15
KGO	Oakland, Calif.	General Electric Co.	790 (380)	7,500
KGRC	San Antonio, Tex., 103 San Pedro Ave.	Eugene J. Roth	1,370 (219)	100
KGRS	Amarillo, Tex., 108 East Eighth St.	Gish Radio Service	1,410 (212.3)	1,000
KGU	Honolulu, Hawaii, 217 South King St.	Marion A. Mulrony and Advertiser Publishing Co.	940 (319)	500
KGW	Portland, Oreg., Sixth and Alder Sts.	Oregonian Publishing Co.	620 (484)	1,000
KGY	Lacey, Wash.	St. Martins College	1,200 (250)	{ 4 50 5 10
KIHJ	Los Angeles, Calif., 1076 W. Seventh St.	Don Lee (Inc.)	900 (333)	1,000
KIHK	Spokane, Wash., Davenport Hotel	Louis Wasmer	590 (509)	1,000
KICK	Red Oak, Iowa	Red Oak Radio Corp.	1,420 (211.3)	100
KID	Idaho Falls, Idaho, 423 Tamarack Ave., Inglewood, Calif.	Jack W. Duckworth, jr.	1,320 (227.3)	250
KIDO	Boise, Idaho, Independent School District of Boise City.	Boise Broadcast Station	1,250 (240)	1,000
KIT	Yakima, Wash.	Carl E. Haymond	1,370 (219)	50
KJBS	San Francisco, Calif.	Julius Brinton & Sons Co.	1,070 (280.4)	100
KJR	Seattle, Wash., 611 Terminal Sales Bldg.	Northwest Radio Service Co.	970 (309)	5,000
KLCN	Blytheville, Ark.	C. L. Lintzenich	1,290 (232.6)	50
KLO	Ogden, Utah, 405 Twenty-fifth St.	Peery Building Co.	1,370 (219)	{ 4 200 5 100
KLRA	Little Rock, Ark., 210-12 Center St.	Arkansas Broadcasting Co.	1,390 (215.8)	1,000
KLS	Oakland, Calif., 2201 Telegraph Ave.	Warner Bros.	1,440 (208.3)	250
KLX	Oakland, Calif., Thirteenth and Franklin Sts.	Oakland Tribune (Tribune Publishing Co.)	850 (341)	500
KLZ	Dupont, Colo.	Reynolds Radio Co.	560 (536)	1,000
KMA	Shenandoah, Iowa	May Seed & Nursery Co.	930 (323)	{ 4 1,000 5 500
KMBC	Independence, Mo.	Midland Broadcasting Co. (Inc.)	950 (316)	{ 4 2,500 5 1,000
KMED	Medford, Oreg., Sparta Bldg.	W. J. Virgin	1,310 (229)	50
KMIC	Inglewood, Calif., 219 North Market St.	Dalton's (Inc.)	1,120 (267.9)	500
KMJ	Fresno, Calif.	Fresno Bee	1,200 (250)	100
KMMJ	Clay Center, Nebr.	M. M. Johnson Co.	740 (405)	1,000
KMO	Tacoma, Wash., Hotel Winthrop	KMO (Inc.)	1,340 (223.9)	500
KMOX	Kirkwood, Mo., Hotel Mayfair	Voice of St. Louis (Inc.)	1,090 (275.2)	5,000
KMTR	Los Angeles, Calif., 1025 North Highland Ave.	KMTR Radio Corp.	570 (526)	500
KNX	Los Angeles, Calif. <sup>10</sup>	Los Angeles Western Broadcast Co.	1,050 (285.7)	5,000
KOA	Denver, Colo., 1370 Krameria St.	General Electric Co.	830 (361)	12,500
KOAC	Corvallis, Oreg.	Oregon State Agricultural College.	560 (536)	1,000
KOB	State College, N. Mex.	New Mexico College of Agriculture & Mechanic Arts.	1,180 (254.2)	10,000
KOCW	Chickasha, Okla., 1800 Eighteenth St.	Oklahoma College for Women.	1,400 (214.3)	{ 4 500 5 250
KOH	Reno, Nev.	Jay Peters (Inc.)	1,370 (219)	100
KOIL	Council Bluffs, Iowa, 1124 South Sixth St.	Mono Motor Oil Co.	1,260 (238.1)	{ 4 2,500 5 1,000
KOIN	Sylvan, Oreg. <sup>11</sup>	KOIN (Inc.)	940 (391)	1,000
KOL	Seattle, Wash., 1321 Second Ave.	Seattle Broadcasting Co.	1,270 (236.2)	1,000
KOMO	Seattle, Wash., Harbor Island	Fisher's Blend Station (Inc.)	920 (326)	1,000
KOOS	Marshfield, Oreg.	Harold H. Hanseth	1,370 (219)	50
KORE	Eugene, Oreg.	Eugene Broadcast Station	1,420 (211.3)	100
KOY	Phoenix, Ariz., 311 North Central Ave.	Nielsen Radio Supply Co.	1,390 (215.8)	25
KPCB	Seattle, Wash., 505 Central Bldg.	Pacific Coast Biscuit Co.	1,210 (247.9)	50
KPJM	Prescott, Ariz., box 730	Miller & Klahn	1,500 (200)	100
KPLA	Los Angeles, Calif., Commercial Exchange Bldg.	Pacific Development Radio Co.	1,000 (300)	1,000



BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Owner	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
KPO	San Francisco, Calif., Fifth and Market Sts.	Hale Bros. and The Chronicle.	680 (441)	5,000
KPOF	Bellevue College (Denver), Colo.	Pillar of Fire (Inc.)	880 (341)	500
KPPC	Pasadena, Calif.	Pasadena Presbyterian Church	1,200 (250)	50
KPQ	Seattle, Wash., 1107 Second Ave.	Taft & Wasmer (Inc.)	1,210 (247.9)	100
KPRC	Houston, Tex.	Post Dispatch (Houston Printing Co.)	920 (326)	1,000
KPSN	Pasadena, Calif.	Pasadena Star News	950 (316)	1,000
KPWF	Westminster, Calif., 1858 East Colorado St., Pasadena, Calif. <sup>12</sup>	Pacific-Western Broadcasting Federation.	1,490 (201.3)	-----
KQV	Pittsburgh, Pa., Fifth and Sixth Aves.	Doubleday-Hill Electric Co.	1,380 (217.4)	500
KQW	San Jose, Calif.	First Baptist Church	1,010 (297)	500
KRE	Berkeley, Calif.	First Congregational Church	1,370 (219)	100
KRGV	Harlingen, Tex.	Valley Radio-Electric Corp.	1,280 (238.1)	500
KRLD	Dallas, Tex., Akard and Commerce Sts.	KRLD Radio Corp.	1,040 (288.5)	10,000
KRMD	Shreveport, La., 504 Wall St.	Robert M. Dean	1,310 (229)	50
KRSC	Seattle, Wash., Fifth Ave. and Springs St.	Radio Sales Corp.	1,120 (267.9)	50
KSAC	Manhattan, Kans.	{ Kansas State Agricultural College }	580 (517)	{ 4,1,000 } { 500 }
KSCJ	Sioux City, Iowa	Sioux City Journal	1,330 (225.6)	1,000
KSD	St. Louis, Mo.	St. Louis Post Dispatch	550 (545)	500
KSEI	Pocatello, Idaho, 141 South Sixth Ave.	KSEI Broadcasting Assn.	900 (333)	250
KSL	Salt Lake City, Utah, 47 West South Temple St.	Radio Service Corp. of Utah	1,130 (265.5)	5,000
KSMR	Santa Maria, Calif.	Santa Maria Valley R. R. Co.	1,200 (250)	100
KSO	Clarinda, Iowa	A. A. Berry Seed Co.	1,380 (217.4)	500
KSOO	Sioux Falls, S. Dak., 219 Phillips Ave.	Sioux Falls Broadcast Assn.	1,110 (270.3)	2,000
KSTP	Westcott, Minn. <sup>13</sup>	National Battery Broadcasting Co.	1,460 (205.5)	10,000
KTAB	Oakland, Calif., 560 Los Angeles St., Los Angeles, Calif.	Associated Broadcasters	550 (545)	500
KTAP	San Antonio, Tex., 822 West Mulberry St.	Alamo Broadcasting Co.	1,420 (211.3)	100
KTAT	Fort Worth, Tex., Westbrook Hotel.	Texas Air Transport Broadcast Co.	1,240 (241.9)	1,000
KTBI	Los Angeles, Calif., 536 South Hope St.	Bible Institute of Los Angeles	1,300 (230.8)	750
KTBR	Portland, Oreg.	M. E. Brown	1,300 (230.8)	500
KTBS	Shreveport, La., Youree Hotel.	S. R. Elliott & A. C. Steere	1,450 (206.9)	500
KTHS	Hot Springs, Ark.	Hot Springs Chamber of Commerce.	1,040 (288.5)	10,000
KTM	Santa Monica, Calif., 560 Los Angeles St., Los Angeles, Calif. <sup>1</sup>	Pickwick Broadcasting Corp.	780 (385)	500
KTNT	Muscateine, Iowa	Norman Baker	1,170 (256.4)	5,000
KTSA	San Antonio, Tex.	Lone Star Broadcasting Co.	1,290 (232.6)	{ 4,2,000 } { 1,000 }
KTSL	Shreveport, La.	Houseman Sheet Metal Works, (Inc.)	1,310 (229)	100
KTSM	El Paso, Tex.	{ W. S. Bledsoe and W. T. Blackwell }	1,310 (229)	100
KTUE	Houston, Tex., 809 Fannin St.	Uhalt Electric (W. J. Uhalt)	1,420 (211.3)	5
KTW	Seattle, Wash., Seventh Ave. and Spring St.	First Presbyterian Church	1,270 (236.2)	1,000
KUJ	Longview, Wash.	Columbia Broadcasting Co., (Inc.)	1,500 (200)	10
KUOA	Fayetteville, Ark.	University of Arkansas	1,390 (215.8)	1,000
KUOM	Missoula, Mont.	University of Montana	570 (526)	500
KUSD	Vermillion, S. Dak.	University of South Dakota	620 (484)	{ 4,750 } { 500 }
KUT	Austin, Tex.	KUT Broadcasting Co.	1,120 (267.9)	500
KVI	Des Moines, Wash., Tacoma Hotel, Tacoma, Wash. <sup>14</sup>	Puget Sound Broadcasting Co.	760 (395)	1,000
KVL	Seattle, Wash., Second Ave. and Virginia St.	Arthur C. Dailey	1,370 (219)	100
KVOA	Tucson, Ariz.	Robert M. Riculfa	1,260 (238.1)	500
KVOO	Tulsa, Okla., Wright Bldg.	Southwestern Sales Corp.	1,140 (263.2)	5,000
KVOS	Bellingham, Wash., Henry Hotel	KVOS (Inc.)	1,200 (250)	100
KWBS	Portland, Oreg., 405 Hawthorn Ave.	Schaeffer Radio Co.	1,500 (200)	15
KWCR	Cedar Rapids, Iowa, 1444 Second Ave. E.	Harry F. Paar	1,310 (229)	100
KWEA	Shreveport, La., Fannin and Spring Sts.	William E. Antony	1,210 (247.9)	100
KWG	Stockton, Calif., 902 Commercial and Savings Bank Bldg.	Portable Wireless Telephone Co.	1,200 (250)	100
KWJJ	Portland, Oreg.	Wilbur Jerman	1,060 (283.0)	500
KWK	St. Louis, Mo., 4965 Lindell Blvd.	Greater St. Louis Broadcasting Corp.	1,350 (222.2)	1,000

## BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Owner	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
KWKC	Kansas City, Mo., Thirty-ninth and Main Sts.	Wilson Duncan Broadcasting Co.	1,370 (219)	100
KWKH	Kennewood, La., Spring and Fanning Sts. <sup>13</sup>	W. K. Henderson Iron Works and Supply Co.	850 (353)	10,000
KWLC	Decorah, Iowa	Luther College (Norwegian Luther College)	1,270 (236.2)	100
KWSC	Pullman, Wash.	State College of Washington	1,390 (215.8)	500
KWTC	Santa Ana, Calif., 1858 East Colorado St.	Pacific-Western Broadcasting Federation.	1,500 (200)	100
KWWG	Brownsville, Tex.	Chamber of Commerce	1,260 (238.1)	500
KWYO	Laramie, Wyo. Third and Ivinson Sts.	Bishop N. S. Thomas	600 (500)	500
KXA	Seattle, Wash., Fourth Ave. and Pike St.	American Radio Telephone Co.	570 (526)	500
KXL	Portland, Oreg., 269 Pine St.	KXL Broadcasters	1,250 (240)	500
KXO	El Centro, Calif.	E. R. Irey and F. M. Bowles	1,200 (250)	100
KXRO	Aberdeen, Wash., Finch Bldg.	KXRO (Inc.)	1,420 (211.3)	75
KYA	San Francisco, Calif., 988 Market St.	Pacific Broadcasting Corp.	1,230 (243.9)	1,000
KYW	Chicago, Ill., 700 Braddock Ave.	Westinghouse Electric & Mfg. Co.	1,020 (294.1)	{ 2 5,000 10,000
KYWA	Chicago, Ill.	do	1,020 (294.1)	500
KZIB	Manila, P. I.	I. Beck (Inc.)	1,153 (260)	20
KZKZ	Manila, P. I., 109 Plaza Moraga	Electrical Supply Co.	1,110 (270.3)	100
KZM	Hayward, Calif., 686 Thirty-eighth St.	Leon P. Tenney	1,370 (219)	100
KZRM	Manila, P. I., Manila Hotel	Radio Corporation of the Philippines.	728 (413)	1,000
NAA	Arlington, Va.	U. S. Navy	690 (435)	1,000
WAAF	Chicago, Ill., 836 Exchange Ave.	Drovers Journal Publishing Co.	920 (326)	500
WAAM	Newark, N. J., 1 Bond St.	WAAM (Inc.)	1,250 (240)	{ 2 2,000 1,000
WAAT	Jersey City, N. J., 91 Sip Ave.	Bremer Broadcasting Corp.	1,070 (280.4)	300
WAAW	Omaha, Neb., 1900 Harney St.	Omaha Grain Exchange	680 (455)	500
WABC	New York, N. Y., Fifty-second St. and Madison Ave.	Atlantic Broadcasting Corp.	860 (349)	5,000
WABI	Bangor, Me.	First Universalist Church	1,200 (250)	100
WABO	Rochester, N. Y.	Hickson Electric Co. (Inc.)	1,440 (208.3)	500
WABY	Philadelphia, Pa., 930 South Eighth St.	John Magaldi, Jr.	1,310 (229)	50
WABZ	New Orleans, La.	Colliseum Place Baptist Church.	1,200 (250)	100
WADC	Akron, Ohio	Allen T. Simmons	1,320 (227.3)	1,000
WAFD	Detroit, Mich., 24 Charlotte St.	Albert B. Parfet Co.	1,500 (200)	100
WAGM	Royal Oak, Mich., 726 Kayser St.	Robert L. Miller	1,310 (229)	50
WAIU	Columbus, Ohio	American Insurance Union	640 (469)	500
WAPI	Birmingham, Ala.	University of Alabama and Alabama College.	1,140 (263.2)	5,000
WASH	Grand Rapids, Mich.	WASH Broadcasting Corp.	1,270 (236.2)	500
WBAA	West Lafayette, Ind.	Purdue University	1,400 (214.3)	500
WBAK	Harrisburg, Pa.	Pennsylvania State Police	1,430 (208.3)	500
WBAL	Glen Morris, Md. <sup>14</sup>	Consolidated Gas Electric Light & Power Co.	1,060 (283)	10,000
WBAP	Fort Worth, Tex., 400 West Seventh St.	Carter Publications (Inc.)	800 (375)	{ 25,000 150,000
WBAX	Wilkes-Barre, Pa., 66 Gildersleeve St.	John H. Stenger, Jr.	1,210 (247.9)	100
WBBC	Brooklyn, N. Y., 16 Court St.	Brooklyn Broadcasting Corp.	1,400 (214.3)	500
WBBL	Richmond, Va.	Grace Covenant Presbyterian Church.	1,370 (219)	100
WBBM	Glenview, Ill., 410 North Michigan St., Chicago, Ill. <sup>17</sup>	Atlas Co. (Inc.)	770 (390)	10,000
WBBR	Rossville, N. Y., 124 Columbia Heights, Brooklyn, N. Y.	Peoples Pulpit Assn.	1,300 (230.8)	1,000
WBBW	Norfolk, Va.	Ruffner Junior High School	1,270 (238.2)	100
WBBY	Charleston, S. C.	Washington Light Infantry	1,200 (250.0)	75
WBBZ	Ponca City, Okla., 36 South State St.	C. L. Carrell	1,200 (250)	100
WBCM	Hampton Township, Mich. <sup>18</sup>	James E. Davidson	1,410 (212.3)	500
WBCN	Chicago, Ill., 722 West Adams St.	Great Lakes Radio Broadcasting Co.	870 (345)	5,000
WBIS	Quincy, Mass., 30 Winter St., Boston Mass. <sup>19</sup>	Shepard Norwell Co.	1,230 (243.9)	500
WBMS	Fort Lee, N. J., 11 Lemoine Ave.	WBMS Broadcasting Corp.	1,450 (206.9)	250
WBNY	New York, N. Y., 400 East One hundred and thirty-ninth St.	Baruchrome Corp.	1,350 (222.2)	250
WBOQ	New York, N. Y., Fifty-second St. and Madison Ave.	Atlantic Broadcasting Corp.	860 (349)	5,000
WBOV	Terre Haute, Ind.	Banks of Wabash (Inc.)	1,310 (229)	100
WBRC	Birmingham, Ala., Bankhead Leland Hotel.	Birmingham Broadcasting Co.	930 (323)	500
WBRE	Wilkes-Barre, Pa., 16 North Main St.	Louis G. Baltimore	1,310 (229)	100
WBRL	Tilton, N. H., 23 Summer St.	Booth Radio Laboratories	1,430 (208.8)	500

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Owner	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
WBSO	Wellesley Hills, Mass., Prescott St.	Babson's Statistical Organization.	780 (385)	250
WBT	Charlotte, N. C.	Station WBT (Inc.)	1,080 (277.8)	5,000
WBZ	East Springfield, Mass. <sup>20</sup>	Westinghouse Electric & Mfg. Co.	900 (303)	15,000
WBZA	Boston, Mass., Hotel Statler	do	990 (303)	500
WCAC	Mansfield, Conn.	Connecticut Agricultural College.	600 (500)	250
WCAD	Canton, N. Y.	St. Lawrence University	1,220 (245.9)	500
WCAE	Pittsburgh, Pa., Sixth and Smithfield Sts.	Kaufmann & Baer Co.	1,220 (245.9)	500
WCAH	Columbus, Ohio	Commercial Radio Service Co.	1,430 (209.8)	500
WCAJ	Lincoln, Nebr.	Nebraska Wesleyan University.	590 (509)	500
WCAL	Northfield, Minn.	St. Olaf College	1,250 (240)	1,000
WCAM	Camden, N. J.	City of Camden	1,280 (234.4)	500
WCAO	Baltimore, Md., 844 North Howard St.	Monumental Radio (Inc.)	600 (500)	250
WCAP	Asbury Park, N. J., Chamber of Commerce.	Radio Industries Broadcast Co.	1,280 (234.4)	500
WCAT	Rapid City, S. Dak.	South Dakota State School of Mines.	1,200 (250)	100
WCAU	Byberry, Pa., 1321 Arch St. <sup>21</sup>	Universal Broadcasting Co.	1,170 (256.4)	10,000
WCAV	Burlington, Vt.	University of Vermont	1,200 (250)	100
WCAZ	Carthage, Ill.	Carthage College	1,070 (280.4)	50
WCAB	Allentown, Pa.	B. Bryan Musselman	1,440 (208.3)	250
WCBD	Zion, Ill.	Wilbur G. Voliva	1,080 (277.8)	5,000
WCBM	Baltimore, Md.	Baltimore Broadcasting Corp.	1,370 (219)	100
WCBS	Springfield, Ill., 400 Jefferson St.	Harold L. Dewing and Charles H. Messer.	1,210 (247.9)	100
WCBO	Anoka, Minn. (St. Paul-Minneapolis). <sup>22</sup>	Washburn-Crosby Co.	810 (370)	7,500
WCDA	Cliffside, N. J., 27 Cleveland Place <sup>23</sup>	Italian Educational Broadcast Co.	1,350 (222.2)	250
WCFL	Chicago, Ill., 623 South Wabash Ave.	Chicago Federation of Labor.	970 (309)	1,500
WCGU	Coney Island, N. Y., 183 Vermont St.	United States Broadcast Corp.	1,400 (214.3)	500
WCKY	Villa Madonna, Ky., Sixth and Madison Sts., Covington, Ky. <sup>24</sup>	L. B. Wilson (Inc.)	1,480 (202.7)	5,000
WCLB	Long Beach, N. Y., Box 288.	Arthur Faske	1,500 (200)	100
WCLO	Kenosha, Wis.	C. F. Whitmore	1,200 (250)	100
WCLS	Joliet, Ill., 301 East Jefferson St.	WCLS (Inc.)	1,310 (229)	100
WCMA	Culver, Ind.	Culver Military Academy	1,400 (214.3)	500
WCOA	Pensacola, Fla.	City of Pensacola	1,120 (267.9)	500
WCOC	Columbus, Miss., Fifth St. and Ninth Ave., South.	Crystal Oil Co.	880 (341)	500
WCOD	Harrisburg, Pa., Seventh and Curtain Sts.	Norman R. Hoffman	1,200 (250)	100
WCOH	Greenville, N. Y. <sup>25</sup>	Westchester Broadcasting Corp.	1,210 (247.9)	100
WCRW	Chicago, Ill., 2756 Pine Grove Ave.	Clinton R. White	1,200 (247.9)	100
WCSH	Portland, Me.	Congress Square Hotel Co.	940 (319)	500
WCSS	Springfield, Ohio	Wittenberg College	1,450 (206.9)	500
WDAE	Tampa, Fla.	Tampa Publishing Co.	620 (484)	1,000
WDAF	Kansas City, Mo.	Kansas City Star	610 (492)	1,000
WDAG	Amarillo, Tex., Security Bldg.	National Radio & Broadcasting Corp.	1,410 (212.8)	250
WDAH	El Paso, Tex.	Trinity Methodist Church South.	1,310 (229)	100
WDAY	West Fargo, N. Dak., 117 Broadway.	WDAY (Inc.)	1,280 (234.4)	1,000
WDBJ	Roanoke, Va., 106 Church Ave., West.	Richardson-Wayland Electric Corp.	930 (323)	{ 4,500 250
WDBO	Orlando, Fla., Winter Park, Fla.	Rollins College	620 (484)	1,000
WDEL	Wilmington, Del., Box 531.	WDEL (Inc.)	1,120 (267.9)	{ 4,350 250
WDGY	Minneapolis, Minn., 909 W. Broadway.	George W. Young	1,180 (254.2)	1,000
WDOD	Chattanooga, Tenn., 615 Market St.	Chattanooga Radio Co.	1,280 (234.4)	{ 2,500 1,000
WDRG	New Haven, Conn., Hotel Taft	Doolittle Radio Corp.	1,330 (225.6)	500
WDSU	New Orleans, La.	Joseph H. Uhalt	1,270 (236.2)	1,000
WDWF	Cranston, R. I. <sup>26</sup>	Dutee W. Flint & Lincoln Studios.	1,210 (247.9)	100
WDZ	Tuscola, Ill., Star Store Bldg.	James L. Bush	1,070 (280.4)	100
WEAF	Bellmore, N. Y., 711 Fifth Ave., New York, N. Y. <sup>27</sup>	National Broadcasting Co.	600 (455)	{ 50,000 25,000
WEAI	Ithaca, N. Y.	Cornell University	1,270 (236.2)	500
WEAN	Providence, R. I.	Shepard Co.	550 (545)	{ 4,500 250
WEAO	Columbus, Ohio	Ohio State University	570 (526)	750
WEAR	Cleveland, Ohio, 1100 Chester Ave.	WTAM & WEAR (Inc.)	1,070 (280.4)	1,070
WEBC	Superior, Wis., 1225 Tower St. <sup>27</sup>	Head of the Lakes Broadcasting Co.	1,280 (234.4)	1,000



## BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Owner	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
WEBE	Cambridge, Ohio, 452 North Fourth St.	Roy W. Waller	1, 210 (247.9)	100
WEBQ	Harrisburg, Ill., 100 East Poplar St.	First Trust & Savings Bank	1, 210 (247.9)	100
WEBR	Buffalo, N. Y., Bramson Bldg.	H. H. Howell Broadcasting Co. (Inc.)	1, 310 (229)	4 200 5 100
WEBW	Beloit, Wis.	Beloit College	600 (500)	350
WEDC	Chicago, Ill., 3860 Ogden Ave.	Emil Denmark (Inc.)	1, 210 (247.9)	100
WEDH	Erie, Pa.	Erie Dispatch Herald	1, 420 (211.3)	30
WEEI	Boston, Mass., 39 Royston St.	Edison Electric Illuminating Co., of Boston.	590 (509)	500
WEHS	Evanston, Ill., 636 Church St.	Victor C. Carlson	1, 310 (229)	100
WELK	Philadelphia, Pa., 6318 North Park Ave.	Howard R. Miller	1, 370 (219)	100
WEMC	Berrien Springs, Mich.	Emmanuel Missionary College.	590 (509)	1, 000
WENR	Chicago, Ill., 72 West Adams St.	Great Lakes Radio Broadcasting Co.	870 (345)	25, 000
WEPS	Gloucester, Mass., 209 Main St.	Matheson Radio Co. (Inc.)	1, 200 (250)	100
WEVD	Forest Hills, N. Y. <sup>23</sup>	Debs Memorial Radio Fund.	1, 300 (230.8)	500
WEWA	St. Louis, Mo.	St. Louis University	760 (395)	1, 000
WFAA	Dallas, Tex.	Dallas News & Dallas Journal	800 (375)	500
WFAN	Philadelphia, Pa., Fairmont Ave. and Broadway.	Keystone Broadcasting Co.	610 (492)	500
WFBC	Knoxville, Tenn.	First Baptist Church	1, 200 (250)	50
WFBE	Cincinnati, Ohio, 108-112 Garfield Place.	Park View Hotel	1, 200 (250)	100
WFBG	Altoona, Pa.	William F. Gable Co.	1, 310 (229)	100
WFBJ	Collegeville, Minn.	St. John's University	1, 370 (219)	100
WFBL	Syracuse, N. Y., Jefferson and Warren Sts.	Onondaga Hotel Co. (Inc.)	1, 490 (201.3)	1, 000
WFBM	Indianapolis, Ind., 48 Monument Circle.	Indianapolis Power & Light Co.	1, 230 (243.9)	1, 000
WFBR	Baltimore, Md., 7 St. Paul St.	Baltimore Radio Show (Inc.)	1, 270 (236.2)	250
WFDF	Flint, Mich.	Frank D. Fallain	1, 310 (229)	100
WFI	Philadelphia, Pa.	Strawbridge & Clothier	560 (536)	500
WFIW	Hopkinsville, Ky.	Acme Mills (Inc.)	940 (319)	1, 000
WFJC	Akron, Ohio	W. F. Jones Broadcasting (Inc.)	1, 450 (206.9)	500
WFKD	Philadelphia, Pa., 5318 Torresdale Ave.	Foulkrod Radio Engineering Co.	1, 310 (229)	50
WFLA	Clearwater, Fla., 422 Cleveland St.	Clearwater Chamber of Commerce and St. Petersburg Chamber of Commerce.	900 (333)	4 2, 500 5 1, 000
WGAL	Lancaster, Pa., 23 East Orange St.	Lancaster Electric Supply & Construction Co.	1, 310 (229)	15
WGBB	Freeport, N. Y., 217 Bedell St.	Harry H. Carman	1, 210 (247.9)	100
WGBC	Memphis, Tenn.	First Baptist Church	1, 430 (209.8)	500
WGBF	Evansville, Ind.	Evansville on the Air (Inc.)	630 (476)	500
WGBI	Scranton, Pa., 318 Linden St.	Scranton Broadcasters (Inc.)	800 (341)	250
WGBS	Astoria, N. Y., Forty-fourth St. and Eighth Ave. <sup>23</sup>	General Broadcasting System (Inc.)	1, 180 (254.2)	500
WGCM	Gulfport, Miss.	Gulf Coast Music Co.	1, 210 (247.9)	100
WGCP	Newark, N. J., 591 Broad St.	May Radio Broadcast Corp.	1, 250 (240)	250
WGES	Chicago, Ill., 128 North Crawford Ave.	Oak Leaves Broadcasting Corp.	1, 360 (220.6)	500
WGH	Newport News, Va.	Virginia Broadcasting Co. (Inc.)	1, 310 (229)	100
WGHP	Fraser, Mich., 1408 Macabee Bldg. <sup>28</sup>	American Broadcasting Corp.	1, 240 (241.9)	750
WGL	Fort Wayne, Ind., 213-215 West Main St.	Allen Wayne Co.	1, 370 (219)	100
WGMS	St. Paul, Minn.	Washburn-Crosby Co.	1, 250 (240)	500
WGN	Elgin, Ill., 435 North Michigan Ave., Chicago, Ill.	The Tribune Co.	720 (417)	25, 000
WGR	Amherst, N. Y., Statler Hotel	Radio Station WGR (Inc.)	550 (545)	1, 000
WGSP	Savannah, Ga., 13 East Congress St.	Chamber of Commerce of Savannah.	1, 410 (212.8)	4 1, 000 5 500
WGST	Atlanta, Ga.	Georgia School of Technology.	890 (337)	4 500 5 250
WGY	Schenectady, N. Y.	General Electric Co.	790 (380)	50, 000
WHA	Madison, Wis.	University of Wisconsin	940 (319)	750
WHAD	Milwaukee, Wis.	Marquette University	1, 120 (267.9)	250
WHAM	Victor Township, N. Y., 1060 University Ave. <sup>29</sup>	Stromberg-Carlson Telephone Mfg. Co.	1, 150 (260.9)	5, 000
WHAP	Carlstadt, N. J., 154 West 57th St., New York, N. Y. <sup>21</sup>	Defenders of Truth Society (Inc.)	1, 300 (230.8)	1, 000
WHAS	Jeffersonton, Ky. <sup>30</sup>	Courier-Journal and Louisville Times.	820 (366)	5, 000
WHAZ	Troy, N. Y.	Rensselaer Polytechnic Institute.	1, 390 (230.8)	500
WHB	Kansas City, Mo., 200 Union Station Plaza.	Sweeney Auto School Co.	950 (316)	500



BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Owner	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
WHBC	Canton, Ohio	St. Johns Parish	1,200 (250)	10
WHBD	Bellefontaine, Ohio	F. P. Moler	1,370 (219)	100
WHBF	Rock Island, Ill., 217 Eighteenth St.	Beardsley Specialty Co.	1,210 (247.8)	100
WHBL	Sheboygan, Wis., 626 Center Ave.	Press Publishing Co. and C. L. Carrell	1,410 (212.8)	500
WIIBQ	Memphis, Tenn., Dermon Bldg.	Broadcasting Station WHBQ (Inc.)	1,370 (219)	100
WHBU	Anderson, Ind., 815 Flat Iron Bldg.	Citizens Bank	1,210 (247.9)	100
WHBW	Philadelphia, Pa., 4916 Chestnut St.	D. R. Kienzle	1,500 (200)	100
WHBY	West De Pere, Wis.	St. Norbert's College	1,200 (250.0)	100
WHDF	Calumet, Mich.	Upper Michigan Broadcasting Co.	1,370 (219)	100
WHDH	Gloucester, Mass.	Matheson Radio Co.	830 (361)	1,000
WHDI	Minneapolis, Minn., 818 Superior Boulevard	William Hood Dunwoody Industrial Institute	1,180 (254.2)	500
WHDL	Tupper Lake, N. Y.	George F. Bissell	1,420 (211.3)	10
WHIEC	Rochester, N. Y., 40 Franklin St.	Hickson Electric Co.	1,440 (208.3)	500
WHFC	Cicero, Ill., 6138 West Twenty-second St.	Triangle Broadcasters	1,310 (229)	100
WHIS	Bluefield, W. Va., 412 Bland St.	Daily Telegraph Printing Co.	1,420 (211.3)	100
WHEK	Cleveland, Ohio, corner Ontario and St. Clair Aves.	Radio Air Service Corp.	1,390 (215.8)	1,000
WHN	New York, N. Y., 1540 Broadway	Marcus Loew Booking Agency	1,010 (297)	250
WHO	Des Moines, Iowa	Bankers Life Co.	1,000 (300)	150
WHP	Lemoyne, Pa., 106 South Fourth St. 31	Pennsylvania Broadcasting Co.	1,430 (209.8)	500
WHPP	Englewood Cliffs, N. J.	Bronx Broadcasting Co.	1,420 (211.3)	10
WIAS	Ottumwa, Iowa, 107 East Second St.	Poling Electric Co.	1,420 (211.3)	100
WIBA	Madison, Wis., 301 West Washington Ave.	Capital Times Co. and Strand Theatre Corp.	1,210 (247.9)	100
WIBG	Elkins Park, Pa.	St. Pauls Protestant Episcopal Church	930 (323)	50
WIBM	Jackson, Mich., 36 South State St.	C. L. Carrell	1,370 (219)	100
WIBO	Desplaines, Ill. <sup>17</sup>	Nelson Bros. Bond & Mortgage Co.	570 (526)	4,500
WIBR	Steubenville, Ohio	George W. Robinson	1,420 (211.3)	1,000
WIBS	Kenilworth, N. J., 1155 East Jersey St. <sup>33</sup>	New Jersey Broadcasting Corp.	1,450 (206.9)	50
WIBU	Poynette, Wis.	William C. Forrest	1,310 (229)	100
WIBW	Topeka, Kans., 1100 Kansas Ave.	Topeka Broadcasting Assn. (Inc.)	1,300 (230.8)	4,500
WIBX	Utica, N. Y., 187 Genesee St.	W I B X (Inc.)	1,200 (250)	100
WICC	Easton, Conn., 1044 Main St. <sup>33</sup>	Bridgeport Broadcasting Station (Inc.)	1,190 (252.1)	500
WIL	St. Louis, Mo.	Missouri Broadcasting Corp.	1,200 (250)	4,250
WILL	Urbana, Ill.	University of Illinois	890 (337)	4,100
WILM	Wilmington, Del.	Delaware Broadcasting Co. (Inc.)	1,420 (211.3)	4,500
WINR	Bay Shore, N. Y., 76 Main St.	Radiotel Manufacturing Co.	1,210 (247.9)	100
WIOD	Miami Beach, Fla.	Isle of Dreams Broadcasting Co.	560 (536)	4,000
WIP	Philadelphia, Pa., Market and Ninth Sts.	Gimbel Brothers	610 (492)	500
WISN	Milwaukee, Wis., 15 Michigan St.	Evening Wisconsin Co.	1,120 (267.9)	250
WJAC	Johnstown, Pa., 101 Main St.	Johnstown Automobile Co.	1,310 (229.0)	100
WJAD	Waco, Tex., Fifth and Austin Sts.	Frank P. Jackson	1,240 (241.9)	1,000
WJAG	Norfolk, Nebr.	Norfolk Daily News (Huse Publishing Co.)	1,060 (283)	1,000
WJAK	Marion, Ind.	Marion Broadcast Co.	1,310 (229)	50
WJAR	Providence, R. I.	The Outlet Co.	890 (337)	4,400
WJAS	Pittsburgh, Pa., Tenth and Pennsylvania Ave.	Pittsburgh Radio Supply House	1,290 (232.6)	1,000
WJAX	Jacksonville, Fla.	City of Jacksonville	1,260 (238.1)	1,000
WJAY	Cleveland, Ohio, 2016 East Ninth St.	Cleveland Radio Broadcasting Corp.	620 (484)	500
WJAZ	Mount Prospect, Ill., 3620 Iron St., Chicago, Ill. <sup>17</sup>	Zenith Radio Corp.	1,480 (202.7)	5,000
WJBC	La Salle, Ill., Joliet St.	Hummer Furniture Co.	1,200 (250)	100
WJBI	Red Bank, N. J., 63 Broad St.	Robert S. Johnson	1,210 (247.9)	100
WJBK	Ypsilanti, Mich., 30 North Washington St.	James F. Hopkins	1,370 (219)	50
WJBL	Decatur, Ill., 301 North Water St.	William Gushard Dry Goods Co.	1,200 (250)	100
WJBO	New Orleans, La., 119 South St. Patrick St.	Valdemar Jensen	1,370 (219)	100
WJBT	Glenview, Ill., 410 North Michigan St., Chicago, Ill. <sup>17</sup>	Atlas Investment Co. (Inc.)	770 (390)	10,000

## BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Owner	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
WJBU	Lewisburg, Pa.	Bucknell University	1,210 (247.9)	100
WJBW	New Orleans, La., 2743 Dumaine St.	Charles C. Carlson, jr.	1,200 (250)	30
WJBY	Gadsden, Ala., 110 South Sixth St.	Charles J. Black	1,210 (247.9)	50
WJDW	Emory, Va.	Emory and Henry College	1,370 (219)	100
WJDX	Jackson, Miss., Lamar Life Bldg.	Lamar Life Insurance Co.	1,270 (236.2)	<sup>4</sup> 1,000 <sup>5</sup> 500
WJDD	Moosheart, Ill.	Supreme Lodge of the World, Loyal Order of Moose.	1,130 (265.5)	20,000
WJKS	Gary, Ind., 540 Lake St.	Johnson Kennedy Radio Corp.	1,360 (220.6)	<sup>4</sup> 1,250 <sup>5</sup> 500
WJR	Pontiac, Mich., twenty-eighth floor Fisher Bldg. <sup>25</sup>	WJR, The Goodwill Station (Inc.)	750 (400)	5,000
WJSV	Mount Vernon Hills, Va.	Independent Publishing Co.	1,460 (205.5)	10,000
WJW	Mansfield, Ohio, Third and Diamond St.	Mansfield Broadcasting Assn.	1,210 (247.9)	100
WJZ	Bound Brook, N. J., 233 Broadway, New York, N. Y. <sup>23</sup>	R. C. A.	760 (395)	<sup>2</sup> 25,000 <sup>3</sup> 30,000
WKAQ	San Juan, P. R., Telephone Bldg.	Radio Corporation of Porto Rico.	890 (337)	500
WKAR	East Lansing, Mich.	Michigan State College	1,040 (288.5)	1,000
WKAU	Laconia, N. H.	Laconia Radio Club	1,310 (229)	100
WKBH	Joliet, Ill., 613 Jefferson St.	Sanders Bros.	1,310 (229)	100
WKBW	Birmingham, Ala.	R. H. Broyles Furniture Co.	1,310 (229)	100
WKBE	Webster, Mass., 59 Emerald Ave.	K & B Electric Co.	1,200 (250)	100
WKBK	Indianapolis, Ind., 902 North Meridian St.	Noble B. Watson	1,400 (214.3)	500
WKBH	La Crosse, Wis., 221 Main St.	Joseph Callaway	1,380 (217.4)	1,000
WKBI	Chicago, Ill., 1917 Warner Ave.	Fred L. Schoenwolf	1,310 (229)	50
WKBN	Youngstown, Ohio, 26 Anburndale Ave.	W. P. Williamson, jr.	570 (526)	500
WKBO	Jersey City, N. J., 2870 Boulevard St.	Camith Corp.	1,450 (206.9)	250
WKBP	Battle Creek, Mich.	Battle Creek Enquirer and News.	1,420 (211.3)	50
WKBQ	New York, N. Y., 1100 East One hundred and seventy-seventh St.	The Standard Cahill Co. (Inc.)	1,350 (222.2)	250
WKBS	Galesburg, Ill., 227 Duffield Ave.	Pernill N. Nelson	1,310 (229)	100
WKBV	Brookville, Ind., 658 Main St.	Knox Battery & Electric Co.	1,500 (200)	100
WKBW	Amherst, N. Y. <sup>24</sup>	Churchill Evangelistic Assn.	1,470 (204.1)	5,000
WKBY	Ludington, Mich., 101 Ludington Ave.	Karl L. Ashbacher	1,500 (200)	50
WKEN	Grand Island, N. Y. <sup>34</sup>	Radio Station WKEN (Inc.)	1,040 (288.5)	1,000
WKJC	Lancaster, Pa., 16 West King St.	Kirk Johnson & Co.	1,200 (250)	100
WKRC	Cincinnati, Ohio, 507 East Pearl St.	Kodel Electric & Mfg. Co.	1,500 (545)	500
WKY	Oklahoma, Okla., 500 North Broadway.	WKY Radiophone Co.	900 (333)	1,000
WLAC	Nashville, Tenn.	Life & Casualty Insurance Co.	1,490 (201.3)	5,000
WLAP	Louisville, Ky., 705 Inter-Southern Bldg.	American Broadcasting Corporation of Kentucky.	1,200 (250)	30
WLB	Minneapolis, Minn.	University of Minnesota	1,250 (240)	500
WLBC	Muncie, Ind., 2224 South Jefferson St.	D. A. Burton	1,310 (229)	50
WLBK	Kansas City, Kans., 300-A East Thirty-third St.	Everett L. Dillard	1,420 (211.3)	100
WLBG	Etrick, Va. <sup>25</sup>	Robert A. Gamble	1,200 (250)	<sup>4</sup> 250 <sup>5</sup> 100
WLBL	Stevens Point, Wis., Hotel Whiting	Wisconsin Department of Markets.	900 (333)	2,000
WLBW	Oil City, Pa., 1 Sycamore St.	Petroleum Telephone Co.	1,260 (238.1)	500
WLBX	Long Island City, N. Y., 283 Crescent St.	John N. Brahy	1,500 (200)	100
WLBZ	Bangor, Me.	Maine Broadcasting Co.	620 (484)	<sup>4</sup> 500 <sup>5</sup> 25
WLCI	Ithaca, N. Y.	Lutheran Association, of Ithaca, N. Y.	1,210 (247.9)	50
WLEX	Lexington, Mass.	Lexington Air Station	1,360 (220.6)	500
WLEY	Lexington, Mass., Adams St.	Lexington Air Station	1,420 (211.3)	<sup>4</sup> 250 <sup>5</sup> 100
WLIB	Elgin, Ill.	Liberty Weekly (Inc.) & Tribune Co.	720 (417)	15,000
WLIT	Philadelphia, Pa., Eighth and Market St.	Lit Brothers	560 (536)	500
WLOE	Chelsea, Mass., 21 Beacon St. <sup>19</sup>	Boston Broadcasting Co.	1,500 (200)	<sup>4</sup> 250 <sup>5</sup> 100
WLS	Crete, Ill., 1230 W. Wash. Blvd., Chicago, Ill. <sup>17</sup>	Agricultural Broadcasting Co.	870 (345)	5,000
WLSI	Cranston, R. I. <sup>26</sup>	Dutee W. Flint and Lincoln Studios (Inc.)	1,210 (247.9)	100
WLTH	Brooklyn, N. Y.	Voice of Brooklyn (Inc.)	1,400 (214.3)	500
WLW	Mason, Ohio, 3401 Colorain Ave. <sup>36</sup>	Crosley Radio Corp.	700 (429)	<sup>2</sup> 25,000 <sup>3</sup> 50,000
WLWL	Kearney, N. J., 415 West Fifty-ninth St., New York, N. Y. <sup>23</sup>	Missionary Society of St. Paul the Apostle.	1,100 (272.7)	5,000

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Owner	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
WMAC	Cazenovia, N. Y.	Clive B. Meredith	570 (526)	250
WMAF	Dartmouth, Mass.	Round Hills Radio Corp.	1,360 (220.6)	500
WMAK	Martinsville, N. Y. <sup>34</sup>	WMAK Broadcasting System (Inc.)	900 (333)	750
WMAL	Washington, D. C., 712 Eleventh St.	M. A. Leese	630 (476)	{ 500 50
WMAN	Columbus, Ohio, 1167 East Broad St.	W. E. Heskett	1,210 (247.9)	5,000
WMAQ	Addison, Ill. <sup>17</sup>	Chicago Daily News Co.	670 (448)	{ 250 100
WMAZ	St. Louis, Mo.	Kingshighway Presbyterian Church.	1,200 (250)	{ 500 200
WMB	Macon, Ga.	Macon Junior Chamber of Commerce.	800 (337)	100
WMBD	Newport, R. I., 19 Broadway	Le Roy J. Beebe	1,500 (100)	100
WMBE	Detroit, Mich., Hotel Savoy	Michigan Broadcasting Co. (Inc.)	1,420 (211.3)	{ 1,000 500
WMBF	Peoria Heights, Ill., 10; East Glen Ave.	Peoria Heights Radio Laboratory.	1,440 (208.3)	500
WMBG	Miami Beach, Fla.	Fleetwood Hotel Corp.	560 (536)	100
WMBH	Richmond, Va., 914 West Broad St.	Havens & Martin	1,210 (247.9)	{ 250 100
WMBI	Joplin, Mo.	Edwin D. Aber	1,420 (211.3)	5,000
WMBJ	Addison, Ill., 153 Institute Place <sup>17</sup>	Moody Bible Institute Radio Station.	1,080 (277.8)	100
WMBK	Wilkesburg, Pa., 6938 Thomas Blvd.	Rev. John W. Sproul	1,500 (200)	100
WMBL	Lakeland, Fla., 132 South Kentucky Ave.	Benford Radio Studios.	1,310 (229)	10
WMBM	Memphis, Tenn.	Seven Day Adventist Church.	1,500 (200)	100
WMBN	Auburn, N. Y., 95 Genesee St.	Radio Service Laboratories.	1,370 (219)	100
WMBQ	Brooklyn, N. Y., 95 Leonard St.	Paul J. Gollhofer	1,500 (200)	100
WMBR	Tampa, Fla., 209 Franklin St.	F. J. Reynolds	1,210 (247.9)	{ 1,000 500
WMC	Memphis, Tenn.	emphus Commercial Appeal.	780 (385)	50
WMCB	Hoboken, N. J. <sup>32</sup>	Knickerbocker Broadcasting Co. (Inc.)	570 (526)	100
WMCN	Boston, Mass.	Massachusetts Educational Society, Barristers Hall.	1,500 (200)	100
WMCN	Fairmont, W. Va.	Holt-Rowe Novelty Co.	890 (337)	{ 500 250
WMPC	Lapeer, Mich.	First Methodist Protestant Church.	1,500 (200)	10
WMRJ	Jamaica, N. Y., 10 New York Blvd.	Peter J. Prinz	1,420 (211.3)	250
WMSG	New York, N. Y., 319 West Fortyninth St.	Madison Square Garden Broadcast Corp.	1,350 (222.2)	{ 250 100
WMT	Waterloo, Iowa	Waterloo Broadcasting Co.	1,200 (250)	1,000
WNAC	Quincy, Mass., 30 Winter St., Boston, Mass. <sup>14</sup>	Shepard Norwell Co.	1,230 (243.9)	500
WNAD	Norman, Okla.	University of Oklahoma.	1,010 (297)	100
WNAT	Philadelphia, Pa., 827 Spring Garden.	Lennig Bros. Co.	1,310 (229)	1,000
WNAX	Yankton, S. Dak.	Gurney Seed & Nursery Co.	570 (526)	50
WNBF	Binghamton, N. Y., corner Chenango and Lewis Sts.	Howitt-Wood Radio Co.	1,500 (200)	100
WNBH	New Bedford, Mass., 725 Pleasant St.	New Bedford Broadcasting Co.	1,310 (229)	50
WNBK	Knoxville, Tenn.	Lonsdale Baptist Church	1,310 (229)	100
WNBQ	Washington, Pa., 319 West Beau St.	John B. Spriggs	1,200 (250)	500
WNBW	Memphis, Tenn., 883 Poplar Ave.	John Ulrich	1,430 (209.8)	5
WNBX	Carbondale, Pa., 21 Salem Ave.	Hoine Cut Glass & China Co.	1,200 (250)	10
WNBZ	Springfield, Vt.	First Congregational Church.	1,200 (250)	50
WNBA	Saranac Lake, N. Y., 70 Broadway	Smith and Mace	1,290 (232.6)	250
WNBB	Newark, N. J., 76 Springfield Ave.	Radio Investment Co.	1,450 (206.9)	1,000
WNBC	Knoxville, Tenn., 114 Gay St.	Sterchi Bros.	560 (536)	250
WNBD	Greensboro, N. C., 724 Pearson St.	Wayne M. Nelson	1,440 (208.3)	500
WNBE	New York, N. Y.	City of New York	570 (526)	5,000
WNBF	San Antonio, Tex., Navarro and Oakland Sts.	Southern Equipment Co.	1,190 (252.1)	500
WNBG	Lawrenceburg, Tenn.	James D. Vaughan	600 (500)	500
WNBH	Trenton, N. J., 600 Ingham Ave.	Frankyin J. Wolff	1,280 (234.4)	15
WNBI	Union City, Tenn., 114 South First St.	Tittsworth's Radio & Music Shop.	1,310 (229)	50
WNBJ	Charleston, W. Va.	Charleston Radio Broadcasting Co.	580 (517)	5,000
WNBK	Davenport, Iowa, 1002 Brady St.	Palmer School of Chiropractic.	1,000 (300)	25
WNBL	Jamestown, N. Y.	A. E. Newton	1,210 (247.9)	1,000
WNBM	Paterson, N. J., 115 Ellison St.	Richard E. O'Dea	1,250 (240)	3,500
WNBN	Ames, Iowa	Iowa State College	560 (536)	500
WNBO	Mount Beacon, N. Y., 800 South St. <sup>27</sup>	Harold E. Smith	1,440 (208.3)	110
WNBP	Washington, D. C., Colorado Bldg.	American Broadcasting Co.	1,310 (229)	000
WNBQ	Manitowoc, Wis.	Mikadow Theater	1,210 (247.9)	

## BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS

Call signal	Location of transmitter and mail address	Owner	Frequency in kilocycles (meters in parentheses)	Power (watts in anten- na)
WOOD	Furnwood, Mich., Fulton St., Grand Rapids, Mich. <sup>35</sup>	Walter B. Stiles, jr.-----	1,270 (236.2)	500
WOPI	Bristol, Tenn., State and Twenty-second Sts.	Wilson Radiophone Service Co.	1,500 (200)	100
WOQ	Kansas City, Mo.	Unity School of Christianity..	610 (492)	1,000
WOR	Kearny, N. J., 147 Market St., Newark, N. J. <sup>38</sup>	L. Bamberger & Co.-----	710 (423)	5,000
WORD	Batavia, Ill. <sup>17</sup>	People's Pulpit Assn.-----	1,480 (202.7)	5,000
WOS	Jefferson City, Mo.	Missouri State Marketing Bureau.	630 (476)	{ 1,000 # 500
WOV	Secaucus, N. J., 16 East Forty-second St., New York, N. Y. <sup>23</sup>	International Broadcasting Co.	1,130 (265.5)	1,000
WOW	Omaha, Nebr.	Woodmen of the World Life Insurance Assn.	590 (509)	1,000
WOWO	Fort Wayne, Ind., 213-215 West Main St.	Main Auto Supply Co.-----	1,160 (253.6)	10,000
WPAP	Cliffside, N. J.	Palisades Amusement Park...	1,010 (297)	250
WPAP	Pawtucket, R. I.	Shartenberg & Robinson	1,210 (247.9)	100
WPCC	Chicago, Ill.	North Shore Congregational Church.	570 (526)	500
WPCII	Hoboken, N. J., 1697 Broadway, New York, N. Y. <sup>23</sup>	Eastern Broadcasters (Inc.)...	810 (370)	500
WPG	Atlantic City, N. J.	Municipality of Atlantic City.	1,100 (272.7)	5,000
WPOE	Patchogue, N. Y., Merrik Road...	Nassau Broadcasting Corp.---	1,420 (211.3)	{ 1,000 # 300
WPOR	Portsmouth, Va., 1001 Commerce Building, Norfolk, Va.	WTAR Radio Corp.	780 (335)	500
WPSC	State College, Pa.	Pennsylvania State College.	1,230 (243.9)	500
WPSW	Philadelphia, Pa., 1533 Pine St.	Wm. Penn Broadcasting Co.	1,500 (200)	50
WPTF	Raleigh, N. C., 324 Fayetteville St.	Durham Life Insurance Co.	680 (441)	1,000
WQAM	Miami, Fla., 42 Northwest Fourth St.	Miami Broadcasting Co.	1,240 (241.9)	1,000
WQAN	Scranton, Pa.	Scranton, Times	880 (341)	250
WQAO	Cliffside, N. J., 123 West Fifty-seventh St., New York, N. Y. <sup>23</sup>	Calvary Baptist Church	1,010 (297)	250
WQBC	Utica, Miss.	Utica Chamber of Commerce	1,360 (220.6)	300
WQBZ	Weirton, W. Va., 3337 Elm St.	J. H. Thompson	1,420 (211.3)	60
WRAF	Laporte, Ind., 719 Michigan Avenue.	Radio Club (Inc.)	1,200 (250)	100
WRAK	Erie, Pa.	C. R. Cummins	1,370 (219.0)	50
WRAW	Reading, Pa., 460 Schuykill Ave.	Avenue Radio and Electric Shop.	1,310 (229)	100
WRAX	Philadelphia, Pa., 1608 West Alleghany Ave.	Berachah Church (Inc.)	1,020 (294.1)	250
WRBC	Valparaiso, Ind.	Immanuel Lutheran Church.	1,240 (241.9)	500
WRBI	Tifton, Ga.	Kents Furniture and Music Store.	1,310 (229)	20
WRBJ	Hattiesburg, Miss., 119 West Pine St.	Woodruff Furniture Co.	1,500 (200)	10
WRBL	Columbus, Ga.	R. E. Martin	1,200 (250)	50
WRBQ	Greenville, Miss.	J. Pat Scully	1,210 (247.9)	100
WRBT	Wilmington, N. C.	Wilmington Radio Assn.	1,370 (219)	100
WRBU	Gastonia, N. C., 221 East Maine St.	A. J. Kirby Music Co.	1,210 (247.9)	100
WRC	Washington, D. C., Press Bldg.	Radio Corporation of America.	950 (316)	500
WREC	Whitehaven, Tenn. Peabody Hotel, Memphis, Tenn. <sup>40</sup>	WREC, (Inc.)	600 (500)	{ 1,000 # 500
WREN	Lawrence, Kans.	Jenny Wren Co.	1,220 (245.9)	1,000
WRHM	Fridley, Minn. <sup>22</sup>	Rosedale Hospital	1,250 (240)	1,000
WRJN	Racine, Wis., Maine and Sixth Sts.	Racine Broadcasting Corp.	1,370 (219)	100
WRK	Hamilton, Ohio, R. R. 3.	S. W. Doron & John C. Slade.	1,310 (229)	100
WRNY	Coytesville, N. J., 20 Pine St., New York, N. Y. <sup>23</sup>	Aviation Radio Station (Inc.)..	1,010 (297)	250
WRR	Dallas, Tex., Jefferson Hotel.	City of Dallas.	1,280 (234.4)	500
WRUF	Gainesville, Fla.	University of Florida.	1,470 (204.1)	5,000
WRVA	Richmond, Va., Twenty-second and Cary Sts.	Larus & Brother Co.	1,110 (270.3)	1,000
WSAI	Harrison, Ohio, 3401 Colerain Ave., Cincinnati, Ohio. <sup>36</sup>	Crosley Radio Corp. (Lessee).	1,330 (225.6)	200
WSAJ	Grove City, Pa.	Grove City College	1,310 (229)	100
WSAN	Allentown, Pa.	Allentown Call Publishing Co.	1,440 (208.3)	250
WSAR	Fall River, Mass.	Doughty & Welch Electrical Co.	1,450 (206.9)	250
WSAZ	Huntington, W. Va., 1143 Fourth Ave.	McKellar Electric Co.	580 (517)	250
WSB	Atlanta, Ga.	Atlanta Journal	740 (405)	1,000
WSBC	Chicago, Ill., 1219 South Wabash Ave.	World Battery Co.	1,210 (247.9)	100
WSBT	South Bend, Ind.	South Bend Tribune.	1,230 (243.9)	500
WSDA	Brooklyn, N. Y., Hotel St. George.	Amateur Radio Specialty Co.	1,400 (214.3)	500
WSEA	Portsmouth, Va., Foot of High St.	Virginia Beach Broadcasting Co.	1,140 (263.2)	500
WSGH	Brooklyn, N. Y., Hotel St. George.	Amateur Radio Specialty Co.	1,400 (214.3)	500
WSIS	Sarasota, Fla.	Sarasota County Chamber of Commerce.	1,010 (297)	250



BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Owner	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
WSIX	Springfield, Tenn.-----	638 Tire & Vulcanizing Co.	1,210 (247.9)	100
WSM	Nashville, Tenn.-----	National Life & Accident Insurance Co.	650 (462)	5,000
WSMB	New Orleans, La., 900 Canal St.-----	Saenger Theaters (Inc.)-----	1,320 (227.3)	500
WSMD	Salisbury, Md.-----	Tom F. Little-----	1,310 (229)	100
WSMK	Dayton, Ohio, Fourth and Main Sts.-----	Stanley M. Krohn, Jr.-----	1,380 (217.4)	200
WSOA	Deerfield, Ill., 410 North Michigan Boulevard, Chicago, Ill. <sup>41</sup>	Radiophone Broadcasting Corp.	1,480 (202.7)	5,000
WSPD	Toledo, Ohio, Commodore Peary Hotel.	Toledo Broadcasting Co.-----	1,340 (223.9)	500
WSSH	Boston, Mass.-----	Tremont Temple Baptist Church.	1,420 (211.3)	{ 250 100
WSUI	Iowa City, Iowa-----	State University of Iowa	580 (517)	500
WSVS	Buffalo, N. Y., 666 East Delavan Ave.	Seneca Vocational School-----	1,370 (219)	50
WSYR	Syracuse, N. Y., Hotel Syracuse.	Clive B. Meredith-----	570 (526)	250
WTAD	Quincy, Ill.-----	Illinois Stock Medicine Broadcasting Co.	1,440 (208.3)	500
WTAG	Worcester, Mass.-----	Worcester Telegram Publishing Co.	580 (517)	250
WTAM	Cleveland, Ohio-----	WTAM & WEAR (Inc.)-----	1,070 (280.4)	3,500
WTAQ	Washington Wis., 799 Wisconsin St.	Gillette Rubber Co.-----	1,330 (225.6)	1,000
WTAR	Norfolk, Va.-----	WTAR Radio Corp.-----	780 (385)	500
WTAW	College Station, Tex.-----	Agricultural & Mechanical College of Texas.	1,120 (267.9)	500
WTAX	Streator, Ill., 115 South Vermillion St.	Williams Hardware Co.-----	1,210 (247.9)	50
WTHO	Cumberland, Md., 138 Virginia Ave.	Cumberland Electric Co.-----	1,420 (211.3)	50
WTFI	Toccoa, Ga.-----	Toccoa Falls Institute-----	1,450 (206.9)	250
WTIC	Avon, Conn. (Mount Avon) <sup>42</sup> -----	Travelers Broadcasting Service Corp.	1,060 (283)	{ 25,000 50,000 2,500 1,000
WTMJ	Brookfield, Wis. <sup>43</sup> -----	Milwaukee Journal	620 (484)	5,000
WTNT	Nashville, Tenn.-----	Tennessee Publishing Co.-----	1,490 (201.3)	100
WTAE	Hammond, Ind.-----	Hammond Calumet Broadcasting Co.	1,200 (250)	1,000
WWJ	Detroit, Mich.-----	Detroit News-----	920 (326)	5,000
WWL	New Orleans, La.-----	Loyola University	850 (353)	1,000
WWNC	Asheville, N. C.-----	Citizen Broadcasting Co. (Inc.)	570 (526)	100
WWRL	Woodside, N. Y., 4130 Fifty-Eighth St.	Long Island Broadcasting Corp.	1,500 (200)	250
WWVA	Wheeling, W. Va., 1229 Main St.-----	West Virginia Broadcasting Corp.	1,160 (258.6)	250

1 Studio at Pittsburgh.  
 2 Normally.  
 3 Experimentally.  
 4 Day.  
 5 Night.  
 6 Studio at St. Louis.  
 7 Studio at Los Angeles.  
 8 Studio at Pomona.  
 9 Studio at Kansas City.  
 10 Studio at Hollywood.  
 11 Studio at Portland.  
 12 Construction permit issued only.  
 13 Studio at St. Paul.  
 14 Studio at Tacoma.  
 15 Additional studios at Shreveport.  
 16 Studio at Baltimore.  
 17 Studio at Chicago.  
 18 Studio at Bay City.  
 19 Studio at Boston.  
 20 Studio at Springfield.  
 21 Studio at Philadelphia.  
 22 Studio at Minneapolis.

23 Studio at New York, N. Y.  
 24 Studio at Covington.  
 25 Studio at Yonkers.  
 26 Studio at Providence.  
 27 Studio at Duluth.  
 28 Studio at Detroit.  
 29 Studio at Rochester.  
 30 Studio at Louisville.  
 31 Studio at Harrisburg.  
 32 Studio at Elizabeth.  
 33 Studio at Bridgeport.  
 34 Studio at Buffalo.  
 35 Studio at Petersburg.  
 36 Studio at Cincinnati.  
 37 Studio at Poughkeepsie.  
 38 Studio at Grand Rapids.  
 39 Studio at Newark.  
 40 Studio at Memphis.  
 41 Studio at Forest Park.  
 42 Studio at Eau Claire.  
 43 Studio at Hartford.  
 44 Studio at Milwaukee.

## BROADCASTING STATIONS, BY FREQUENCIES

Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter		
550 (545)	1,000	WGR	Amherst, N. Y.	610 (492)	500	WFAN	Philadelphia, Pa.		
	500	WKRC	Cincinnati, Ohio.		500	WIP	Do.		
	*1,500	WEAN	Providence, R. I.		1,000	WDAF	Kansas City, Mo.		
	2,250				WOQ	Do.			
	1,000	KFYD	Brookings, S. Dak.		1,000	KFRC	San Francisco, Calif.		
	3,500				WJAY	Cleveland, Ohio.			
	500	KTAB	Oakland, Calif.		620 (484)	1,000	WDAE	Tampa, Fla.	
	500	KFYR	Bismarck, N. Dak.			1,000	WDBO	Orlando, Fla.	
	500	KSD	St. Louis, Mo.			1,000	KGW	Portland, Ore.	
	1,000	KFUO	Clayton, Mo.			500	KFAD	Phoenix, Ariz.	
2,500	1,200			WTMJ		Brookfield, Wis.			
560 (536)	1,000	WIOD	Miami Beach, Fla.	1,000		WLBZ	Bangor, Me.		
	2,500			1,250					
	1,000	KOAC	Corvallis, Ore.	630 (476)		2,500	WMAL	Washington, D. C.	
	1,000	WNOX	Knoxville, Tenn.			1,500			
	1,000	KLZ	Dupont, Colo.			2,500	WOS	Jefferson City, Mo.	
	500	WLIT	Philadelphia, Pa.		500				
	500	WFI	Do.		500	KFRY	Columbia, Mo.		
	500	KFDM	Beaumont, Tex.		500	WGBF	Evansville, Ind.		
	3,500	WOI	Ames, Iowa.		500	WAU	Columbus, Ohio.		
	2,500	KFEQ	St. Joseph, Mo.		5,000	KFI	Los Angeles, Calif.		
500	WMBF	Miami Beach, Fla.	5,000		WSM	Nashville, Tenn.			
570 (526)	750	WEAO	Columbus, Ohio.		650 (462)	500	WAAW	Omaha, Nebr.	
	500	WMCA	Hoboken, N. J.	860 (455)	25,000	WMAQ	Addison, Ill.		
	1,000	WWNC	Asheville, N. C.	670 (448)	500	KPO	San Francisco, Calif.		
	250	KGKO	Wichita Falls, Tex.	680 (441)	5,000	WPTF	Raleigh, N. C.		
	1,500	WIBO	Chicago, Ill.	690 (435)	1,000	NAA	Arlington, Va.		
	1,000			700 (429)	25,000	WLW	Mason, Ohio.		
	500	WNYC	New York, N. Y.	710 (423)	250	KFVD	Culver City, Calif.		
	250	WSYR	Syracuse, N. Y.		5,000	WOR	Kearny, N. J.		
	250	WMAC	Casnovia, N. Y.		720 (417)	25,000	WGN	Elgin, Ill.	
	500	KMTR	Los Angeles, Calif.		728 (413)	1,000	KZRM	Manila, P. I.	
500	WKBN	Youngstown, Ohio.	740 (405)		1,000	WSB	Atlanta, Ga.		
500	WPCC	Chicago, Ill.	750 (400)		1,000	KMMJ	Clay Center, Nebr.		
500	KUOM	Missoula, Mont.	760 (395)		5,000	WJR	Pontiac, Mich.		
500	KXA	Seattle, Wash.	770 (390)		1,000	KVI	Tacoma, Wash.		
1,000	WNAX	Yankton, S. Dak.	780 (385)		1,000	WEW	St. Louis, Mo.		
250	WSAZ	Huntington, W. Va.	790 (380)		30,000	WJZ	Bound Brook, N. J.		
580 (517)	1,000	KSAC	Manhattan, Kans.	770 (390)	5,000	KFAB	Lincoln, Nebr.		
	250				WOBU	Charleston, W. Va.	10,000	WBBM	Glenview, Ill.
	200	KGFX	Pierre, S. Dak.		780 (385)	1,000	WMC	Memphis, Tenn.	
	500	WSUI	Iowa City, Iowa.			500	WTAR	Norfolk, Va.	
	250	WTAG	Worcester, Mass.			500	KELW	Burbank, Calif.	
	1,000	WEMC	Berrien Springs, Mich.			500	KTM	Santa Monica, Calif.	
	500	WCAJ	Lincoln, Nebr.			250	WBSO	Wellesley Hills, Mass.	
	1,000	KHQ	Spokane, Wash.			790 (380)	50,000	WGY	South Schenectady, N. Y.
	500	WEI	Boston, Mass.				7,500	KGO	Oakland, Calif.
	1,000	WOW	Omaha, Nebr.				800 (375)	325,000	WBAP
500	KWYO	Laramie, Wyo.	500	WFAA				Dallas, Tex.	
250	WCAC	Mansfield, Conn.							
250	WTIC	Hartford, Conn.							
250	WCAO	Baltimore, Md.							
1,000	WREC	Whitehaven, Tenn.							
2,500			WOAN	Lawrenceburg, Tenn.					
500	WEBW	Beloit, Wis.							
1,000	KFSD	San Diego, Calif.							
2,500									

\* See footnotes to this table on p. 127.

BROADCASTING STATIONS, BY FREQUENCIES—Continued

Frequency in kilo-cycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	Frequency in kilo-cycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter
810 (370)	500	WPCB	Hoboken, N. J.	950 (316)	500	WRC	Washington, D. C.
	7,500	WCCO	Anoka, Minn.		1,000	KFWB	Hollywood, Calif.
820 (365)	5,000	WHAS	Jeffersonton, Ky.		1,000	KPSN	Pasadena, Calif.
					500	KGHL	Billings, Mont.
830 (361)	1,000	WHDH	Gloucester, Mass.	970 (309)	1,500	WCFL	Chicago, Ill.
	12,500	KOA	Denver, Colo.		5,000	KJR	Seattle, Wash.
850 (353)	10,000	KWKH	Kennewood, La.	980 (306)	25,000	KDKA	Wilkesburg, Pa.
	5,000	WVL	New Orleans, La.		15,000		
860 (349)	5,000	WABC	New York, N. Y.	990 (303)	500	WRZA	Boston, Mass.
	250	WBOQ	Hollywood, Calif.		1,000	KPLA	Los Angeles, Calif.
870 (345)	25,000	WENR	Chicago, Ill.	1,000 (300)	5,000	WHIO	Des Moines, Iowa.
	5,000	WBCN	Crete, Ill.		5,000	WOC	Davenport, Iowa.
880 (341)	1,000	WLS	Crete, Ill.		250	WQAO	Cliffs, N. J.
	500	KFKA	Greely, Colo.	1,010 (297)	250	WPAP	New York, N. Y.
	250	WQAN	Scranton, Pa.		250	WHN	New York, N. Y.
	250	WGRI	Do.		250	WRNY	Coytesville, N. J.
	500	WCOC	Columbus, Miss.		500	KGGF	Picher, Okla.
	500	KLX	Oakland, Calif.		500	WNAD	Norman, Okla.
	500	KPOF	Denver, Colo.		500	KQW	San Jose, Calif.
890 (337)	500	WKAQ	San Juan, P. R.		250	WSIS	Sarasota, Fla.
	1,400	WJAR	Providence, R. I.	1,020 (294.1)	250	WRAK	Philadelphia, Pa.
	2,250	WMAZ	Macon, Ga.		10,000	KY W	Chicago, Ill.
	2,250	KUSD	Vermillion, S. Dak.	1,040 (288.5)	500	KFKX	Do.
	1,750				1,000	KYWA	Grand Island, N. Y.
	2,500	WMMN	Fairmont, W. Va.		1,000	WKAR	East Lansing, Mich.
	1,000	KFNF	Shenandoah, Iowa.		10,000	KTHS	Hot Springs, Ark.
	500	WILL	Urbana, Ill.	1,050 (285.7)	10,000	KRLD	Dallas, Tex.
	1,500	WGST	Atlanta, Ga.		5,000	KNX	Hollywood, Calif.
	2,250	KGJF	Little Rock, Ark.	1,060 (283)	5,000	KFKB	Milford, Kans.
	250	WFBL	Syracuse, N. Y.		10,000	WBAL	Glen Morris, Md.
900 (333)	750	WMAK	Martinsville, N. Y.		1,000	WJAG	Norfolk, Nebr.
	750	WKY	Oklahoma City, Okla.	1,070 (280.4)	500	KWJJ	Portland, Oregon.
	1,000	KHJ	Los Angeles, Calif.		25,000	WTIC	Avon (Avon Mt.) Conn.
	500	KGBU	Ketchikan, Alaska.		50,000	WAAT	Jersey City, N. J.
	2,000	WLBL	Stevens Point, Wis.		300	WTAM	Cleveland, Ohio.
	250	KSEI	Pocatello, Idaho.	1,080 (277.8)	3,500	WEAR	Do.
	1,250	WFLA	Clearwater, Fla.		1,000	WCAZ	Carthage, Ill.
	1,000	WSUN	Detroit, Mich.	1,090 (275.2)	50	WDZ	Tuscola, Ill.
920 (326)	1,000	WAAF	Chicago, Ill.		100	KJBS	San Francisco, Calif.
	1,000	KOMO	Seattle, Wash.	1,100 (272.7)	5,000	WBT	Charlotte, N. C.
	1,000	KPRC	Houston, Tex.		5,000	WCBP	Zion, Ill.
930 (323)	1,500	WDBJ	Roanoke, Va.		5,000	WMBI	Addison, Ill.
	250	WIBG	Elkins Park, Pa.	1,110 (270.3)	5,000	KPMX	Kirkwood, Mo.
	1,000	KGBZ	York, Nebr.		50	KFQA	Stockton, Calif.
	2,500	KMA	Shenandoah, Iowa.	1,120 (267.9)	5,000	WLDL	Kearny, N. J.
	500	KFWM	Okaland, Calif.		5,000	WPG	Atlantic City, N. J.
	500	KFWI	San Francisco, Calif.		2,000	KSOO	Sioux Falls, S. Dak.
940 (319)	500	WBRC	Birmingham, Ala.		1,000	WRVA	Richmond, Va.
	750	WILA	Madison, Wis.		100	KZKA	Manila, P. I.
	500	KGU	Honolulu, Hawaii.		1,350	WDEL	Wilmington, Del.
	500	WCSH	Portland, Me.		250	WCOA	Pensacola, Fla.
	500	WFIW	Hopkinsville, Ky.		500	WTAW	College Station, Tex.
	1,000	KOIN	Portland, Oreg.		500	KUT	Austin, Tex.
	250	KFEL	Denver, Colo.	1,130 (265.5)	250	WISN	Milwaukee, Wis.
	250	KFXF	Do.		250	WIAD	Milwaukee, Wis.
950 (316)	500	WHB	Kansas City, Mo.		500	KFSG	Los Angeles, Calif.
	1,250	KMBC	Independence, Mo.		50	KRSC	Seattle, Wash.
	1,000				500	KMIC	Inglewood, Calif.
					1,000	WOV	Seaucus, N. J.
					20,000	WJJD	Mooseheart, Ill.
					5,000	KSL	Salt Lake City, Utah.

## BROADCASTING STATIONS, BY FREQUENCIES—Continued

Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter
1, 140 (263.2)	5, 000	WAPI	Birmingham, Ala.	1, 200 (250)	50	KGDE	Fergus Falls, Minn.
	5, 000	KVOO	Tulsa, Okla.		100	WABI	Bangor, Me.
	500	WSEA	Virginia Beach, Va.		75	WBBY	Charleston, S. C.
1, 150 (260.9)	5, 000	WHAM	Victor Township, N. Y.	1, 210 (247.9)	100	WBHY	West Pere, Wis.
1, 153 (260)	20	KZIB	Manila, P. I.		50	KFHA	Gunnison, Colo.
1, 160 (258.6)	10, 000	WOWO	Fort Wayne, Ind.		<sup>1</sup> 250 } KFOR	Lincoln, Nebr.	
1, 170 (256.4)	250	WWVA	Wheeling, W. Va.	<sup>2</sup> 100	100	KPQ	Seattle, Wash.
	10, 000	WCAU	Byberry, Pa.	100	50	WJBY	Gadsden, Ala.
	5, 000	KTNT	Muscataine, Iowa.	100	100	WJW	Mansfield, Ohio.
1, 180 (254.2)	500	KEJK	Beverly Hills, Calif.	100	50	KPCB	Seattle, Wash.
	500	WHDI	Minneapolis, Minn.	100	100	KGCR	Watertown, S. Dak.
	1, 000	WDGY	Do.	100	100	WEBQ	Harrisburg, Ill.
1, 190 (252.1)	500	WGBS	Astoria, N. Y.	100	100	WBAX	Wilkes-Barre, Pa.
	5, 000	KEX	Portland, Oreg.	100	100	WJBU	Lewisburg, Pa.
	10, 009	KOB	State College, N. Mex.	100	100	WMBG	Richmond, Va.
1, 200 (250)	5, 000	WOAI	San Antonio, Tex.	100	100	WSIX	Springfield, Tenn.
	500	WICC	Easton, Conn.	100	100	WRBU	Gastonia, N. C.
	100	KVOS	Bellingham, Wash.	100	100	WMBR	Tampa, Fla.
1, 250	100	WCOD	Harrisburg, Pa.	100	100	WRBQ	Greenville, Miss.
	<sup>1</sup> 250 } WMA Y	St. Louis, Mo.	100	100	WGCM	Gulfport, Miss.	
	<sup>2</sup> 100 } WIL	Do.	100	100	KWEA	Shreveport, La.	
1, 250	<sup>1</sup> 250 } WNBO	Washington, Pa.	100	100	KDLR	Devils Lake, N. Dak.	
	<sup>2</sup> 100 } KGFK	Hallock, Minn.	100	100	KFVS	Cape Girardeau, Mo.	
	<sup>2</sup> 100 } WLBG	Etrick, Va.	100	100	WSBC	Chicago, Ill.	
1, 250	10	WHBC	Canton, Ohio.	100	100	WCRW	Do.
	100	WKJC	Lancaster, Pa.	100	100	WBDC	Do.
	5	WNBW	Carbondale, Pa.	100	100	WCBS	Springfield, Ill.
1, 250	30	WJBW	New Orleans, La.	100	100	WBFB	Rock Island, Ill.
	100	WBBZ	Ponca City, Okla.	100	100	WIBA	Madison, Wis.
	50	WFBC	Knoxville, Tenn.	100	100	WOMT	Manitowoc, Wis.
1, 250	50	WRBL	Columbus, Ga.	100	100	WBHU	Anderson, Ind.
	100	KGCU	Mandan, N. Dak.	100	100	WJBI	Red Bank, N. J.
	100	WJBC	La Salle, Ill.	100	100	WGBB	Freeport, N. Y.
1, 250	100	WJBL	Decatur, Ill.	100	100	WINR	Bayshore, N. Y.
	100	WWAE	Hammond, Ind.	100	100	WCOH	Greenville, N. Y.
	100	WRAF	La Porte, Ind.	25	100	WCOL	Jamestown, N. Y.
1, 250	<sup>1</sup> 250 } WMT	Waterloo, Iowa.	100	100	WPAW	Pawtucket, R. I.	
	<sup>2</sup> 100 } KFJB	Marshalltown, Iowa.	100	50	WMAN	Columbus, Ohio.	
	100	WCAT	Rapid City, S. Dak.	50	50	WTAX	Streator, Ill.
1, 220 (245.9)	15	KGDY	Oldham, S. Dak.	50	50	WLCI	Ithaca, N. Y.
	100	KFWF	St. Louis, Mo.	100	100	W D W F	Cranston, R. I.
	15	KFKZ	Kirksville, Mo.	100	100	WLSI	Do.
1, 230 (243.9)	100	WCLO	Kenosha, Wis.	500	500	WEBE	Cambridge, Ohio.
	100	KFWC	Ontario, Calif.	500	500	WCAD	Canton, N. Y.
	50	KPPC	Pasadena, Calif.	1, 000	1, 000	WCAE	Pittsburgh, Pa.
1, 240 (241.9)	100	KXO	El Centro, Calif.	500	500	WREN	Lawrence, Kans.
	100	KMJ	Fresno, Calif.	500	500	KFKU	Do.
	100	KSMR	Santa Maria, Calif.	500	500	KGGM	Albuquerque, N. Mex.
1, 240 (241.9)	100	KVG	Stockton, Calif.	1, 000	1, 000	WNAC	Quincy, Mass.
	50	KGEK	Yuma, Colo.	1, 000	1, 000	WBIS	Indianapolis, Ind.
	100	KGEW	Fort Morgan, Colo.	500	500	WFBM	State College, Pa.
1, 240 (241.9)	<sup>1</sup> 50 } KGY	Lacey, Wash.	1, 000	500	WPSC	South Bend, Ind.	
	<sup>2</sup> 10 } WCAX	Burlington, Vt.	1, 000	1, 000	WSBT	San Francisco, Calif.	
	100	WNBX	Springfield, Vt.	1, 000	100	KY A	San Francisco, Calif.
1, 250 (240)	100	WEPS	Gloucester, Mass.	1, 000	100	KFIO	Spokane, Wash.
	100	WKBE	Webster, Mass.	1, 000	100	KFQD	Anchorage, Alaska.
	<sup>1</sup> 300 } WIBX	Utica, N. Y.	1, 000	1, 000	WQAM	Miami, Fla.	
1, 250 (240)	<sup>2</sup> 100 } WFB E	Cincinnati, Ohio.	1, 000	1, 000	KTAT	Fort Worth, Tex.	
	100	WLAP	Louisville, Ky.	750	1, 000	WGHP	Fraser, Mich.
	100	WABZ	New Orleans, La.	1, 000	500	WJAD	Waco, Tex.
1, 250 (240)	100	WABZ	New Orleans, La.	1, 000	1, 000	WRCB	Valparaiso, Ind.
	250	WGCP	Newark, N. J.	<sup>1</sup> 2, 000 } W A A M	Newark, N. J.		
	1, 000	WODA	Paterson, N. J.	<sup>2</sup> 1, 000 } K F O X	Long Beach, Calif.		



BROADCASTING STATIONS, BY FREQUENCIES—Continued

Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter
1,250 (240)	500	WLB-WGMS	Minneapolis, Minn.	1,310 (229)	100	WNBH	New Bedford, Mass.
	1,000	KFMX	Northfield, Minn.		100	WOL	Washington, D.C.
	1,000	WRHM	Fridley, Minn.		100	WGII	Newport News, Va.
	1,000	WCAL	Northfield, Minn.		100	WRK	Hamilton, Ohio.
1,260 (238.1)	500	KXL	Portland, Ore.	50	WAGM	Royal Oak, Mich.	
	500	KVOA	Tucson, Ariz.	100	WDFD	Flint, Mich.	
	500	KRGV	Marlinton, Tex.	100	WNAT	Philadelphia, Pa.	
	1,250	KOIL	Council Bluffs, Iowa.	50	WABY	Do.	
1,270 (236.2)	1,000	WLBW	Oil City, Pa.	50	WFKD	Philadelphia (Frankfort), Pa.	
	1,000	WJAX	Jacksonville, Fla.	100	WFBG	Altoona, Pa.	
	500	KWVG	Brownsville, Tex.	100	WRAV	Reading, Pa.	
	500	WASH	Grand Rapids, Mich.	15	WGAL	Lancaster, Pa.	
1,280 (234.4)	100	KWLC	Decorah, Iowa.	100	WSAJ	Grove City, Pa.	
	250	WFBR	Baltimore, Md.	100	WBRE	Wilkes-Barre, Pa.	
	500	WOOD	Furnwood, Mich.	50	KGIG	McGhee, Ark.	
	1,000	WDSU	New Orleans, La.	15	WGBT	Union City, Tenn.	
	500	WEAI	Ithaca, N. Y.	50	WNBJ	Knoxville, Tenn.	
	100	WBBW	Norfolk, Va.	50	KRMD	Shreveport, La.	
	50	KGCA	Decorah, Iowa.	15	KFPM	Greenville, Tex.	
	1,000	KTWV	Seattle, Wash.	50	KGFV	Ravenna, Nebr.	
	1,000	KOL	Do.	100	KTSM	El Paso, Tex.	
	1,000	KFUM	Colorado Springs, Colo.	100	WDAI	Do.	
	1,000	WJDX	Jackson, Miss.	15	KFPL	Dublin, Tex.	
	1,000	WDAY	West Fargo, N. Dak.	100	KFXR	Oklahoma City, Okla.	
1,290 (232.6)	500	WCAM	Camden, N. J.	100	WKBS	Galesburg, Ill.	
	500	WCAP	Asbury Park, N. J.	100	WEHS	Evanston, Ill.	
	500	WOAX	Trenton, N. J.	100	WCLS	Joliet, Ill.	
	500	WRR	Dallas, Tex.	100	WKBB	Do.	
	1,000	WEBC	Superior, Wis.	50	WKBI	Chicago, Ill.	
	1,250	WDOD	Chattanooga, Tenn.	100	KWCR	Cedar Rapids, Iowa.	
	1,200	KTSA	San Antonio, Tex.	100	KFJY	Fort Dodge, Iowa.	
	1,000	WNBZ	Saranac Lake, N. Y.	100	KFGQ	Boone, Iowa.	
	50	KDYL	Salt Lake City, Utah.	50	WLBC	Muncie, Ind.	
	1,000	WJAS	Pittsburgh, Pa.	100	WIBU	Poynette, Wis.	
	500	KFUL	Galveston, Tex.	10	KFIU	Juneau, Alaska.	
	50	KLCN	Blytheville, Ark.	100	KFUP	Denver, Colo.	
1,300 (230.8)	500	KFH	Wichita, Kans.	50	KFXJ	Edgewater, Colo.	
	500	WEVD	Forest Hills, N. Y.	50	KGFV	Ravenna, Nebr.	
	1,250	WIBW	Topeka, Kans.	250	KGIQ	Twin Falls, Idaho.	
	1,000	WBBR	Rossville, N. Y.	250	KID	Idaho Falls, Idaho.	
	1,000	WHAP	Carlstadt, N. J.	500	WSMB	New Orleans, La.	
	500	WHAZ	Troy, N. Y.	250	KGHF	Pueblo, Colo.	
	1,000	KGEF	Los Angeles, Calif.	1,000	WADC	Akron, Ohio.	
	750	KTBI	Do.	250	KGHB	Honolulu, Hawaii.	
	500	KFJR	Portland, Ore.	500	WSAI	Harrison, Ohio.	
	500	KTBR	Do.	1,000	WTAQ	Washington, Wis.	
	1,310 (229)	100	WJAC	Johnstown, Pa.	1,000	KSCJ	Sioux City, Iowa.
		100	KGEZ	Kalispell, Mont.	500	WDRC	New Haven, Conn.
100		KTSL	Shreveport, Ill.	500	WSPD	Toledo, Ohio.	
100		WBOW	Terre Haute, Ind.	50	KFPW	Siloam Springs, Ark.	
1,330 (225.6)	50	WJAK	Marion, Ind.	500	KMO	Tacoma, Wash.	
	20	WRBI	Tifton, Ga.	250	WBNY	New York, N. Y.	
	100	WMBL	Lakeland, Fla.	250	WMSG	Do.	
	100	WHFC	Cicero, Ill.	250	WCDA	Cliffside, N. J.	
1,340 (223.9)	100	WKBC	Birmingham, Ala.	250	WKBQ	New York, N. Y.	
	50	KMED	Medford, Ore.	250	KWK	St. Louis, Mo.	
	100	KFBK	Sacramento, Calif.	50	KGFL	Raton, N. Mex.	
	100	WKAU	Laconia, N. H.	500	KFBB	Havre, Mont.	
1,350 (222.2)	100	WEBR	Buffalo, N. Y.	500	WLEX	Lexington, Mass.	
	1,200	WSMD	Salisbury, Md.	250	KGIR	Butte, Mont.	
	100			500	WMAF	Dartmouth, Mass.	
	100						

BROADCASTING STATIONS, BY FREQUENCIES—Continued

Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter
1,360 (220.6)	300	WQBC	Utica, Miss.	1,420 (211.3)	1250	KFYO	Abilene, Tex.
	1,250	WJKS	Gary, Ind.		2100		
1,370 (219)	500	WGES	Chicago, Ill.	100	50	WHDL	Tupper Lake, N. Y.
	250	KGB	San Diego, Calif.		100	WHIS	Bluefield, W. Va.
1,370 (219)	100	WHBD	Bellefontaine, Ohio.	100	100	WPOE	Patchogue, N. Y.
	200	KLO	Ogden, Utah.		100	KGFF	Alva, Okla.
100	50		KIT	Yakima, Wash.	100	KFIZ	Fond du Lac, Wis.
100	100	KFJI	Astoria, Oreg.	100	50	WLBR	Steuensville, Ohio.
100	100	KFJZ	Fort Worth, Tex.	1250	100	WSSH	Boston, Mass.
100	100	WRBT	Wilmington, N. C.				
100	50	KOOS	Marshfield, Oreg.	100	100	KTAP	San Antonio, Tex.
100	50	WJBC	Ypsilanti, Mich.	50	50	KGGC	San Francisco, Calif.
100	100	KCRC	Enid, Okla.	1250	100	WLEY	Lexington, Mass.
100	100	KGAR	Tucson, Ariz.				
100	100	KGFG	Oklahoma City, Okla.	100	100	KKIF	Portland, Oreg.
100	100	WGL	Fort Wayne, Ind.	50	50	WTBO	Cumberland, Md.
100	100	KFJM	Grand Forks, N. Dak.	10	10	WHPP	Englewood Cliffs, N. J.
100	100	WHDF	Calumet, Mich.	100	30	WMRJ	Jamaica, N. Y.
100	100	WCBM	Baltimore, Md.				
100	100	WMBO	Auburn, N. Y.	100	100	WMBC	Detroit, Mich.
50	50	WSVS	Buffalo, N. Y.	50	50	WKBP	Battle Creek, Mich.
100	100	WBBL	Richmond, Va.	60	5	WQBZ	Weirton, W. Va.
100	100	WIBM	Jackson, Mich.				
100	100	WELK	Philadelphia, Pa.	50	50	WIAS	Ottumwa, Iowa.
100	100	WJBO	New Orleans, La.	100	50	KGCN	Concordia, Kans.
100	100	WIIBQ	Memphis, Tenn.	100	100	WLBV	Kansas City, Kans.
100	100	KGCI	San Antonio, Tex.	1250	100	WMBH	Joplin, Mich.
100	100	KGRC	Do.				
100	100	KGKL	San Angelo, Tex.	100	100	KGIX	Las Vegas, Nev.
100	100	KFLX	Galveston, Tex.	100	100	KGJF	Los Angeles, Calif.
100	100	WFBJ	Collegeville, Minn.	100	100	KFQU	Alma (Holy City) Calif.
50	50	KGDA	Dell Rapids, S. Dak.	50	50	KFXD	Jerome, Idaho.
100	100	KWKC	Kansas City, Mo.	10	10	KGCV	Vida, Mont.
100	100	KGEX	St. Joseph, Mo.	100	100	KORE	Eugene, Oreg.
100	100	WRJN	Racine, Wis.	100	100	KFQW	Seattle, Wash.
100	100	KZM	Hayward, Calif.	75	75	KXRO	Aberdeen, Wash.
100	100	KRE	Berkeley, Calif.	100	100	WILM	Wilmington, Del.
100	100	KGER	Long Beach, Calif.	15	15	KGKX	Sandpoint, Idaho.
50	50	KFBL	Everett, Wash.	500	500	WCAH	Columbus, Ohio.
100	50	KVL	Seattle, Wash.	500	500	WHIP	Lemoine, Pa.
100	100	WRAK	Erie, Pa.	500	500	WGBC	Memphis, Tenn.
100	100	KOH	Reno, Nev.	500	500	WBAK	Harrisburg, Pa.
100	100	WJDW	Emory, Va.	500	500	WNBK	Memphis, Tenn.
1,380 (217.4)	200	WSMK	Dayton, Ohio.	500	500	WBRL	Tilton, N. H.
	1,000	WBBH	La Crosse, Wis.	500	500	WTBC	Rochester, N. Y.
1,390 (215.8)	500	KQV	Pittsburgh, Pa.	500	500	WABO	Mount Beacon, N. Y.
	500	KSO	Clarinda, Iowa.	250	250	WCBN	Allentown, Pa.
1,390 (215.8)	500	KFPY	Spokane, Wash.	250	250	WSAN	Do.
	500	KOY	Phoenix, Ariz.	250	250	WNRC	Greensboro, N. C.
1,000	1,000	KLRA	Little Rock, Ark.	500	500	WTAD	Quincy, Ill.
1,000	1,000	WHK	Cleveland, Ohio.	500	500	WMBD	Peoria Heights, Ill.
1,000	1,000	KUOA	Fayetteville, Ark.	1,440 (208.3)	250	WCLS	Oakland, Calif.
500	500	KWSC	Pullman, Wash.				
1,400 (214.3)	1,500	KOCW	Chickasha, Okla.	250	250	WIBS	Fort Lee, N. J.
	2,250		Indianapolis, Ind.				
500	500	WKBK	Indianapolis, Ind.	250	250	WKBO	Jersey City, N. J.
500	500	WBBC	Brooklyn, N. Y.	250	250	WSAR	Fall River, Mass.
500	500	WCGU	Coney Island, N. Y.	500	500	WFJC	Akron, Ohio.
1,410 (212.8)	500	WSGH	Brooklyn, N. Y.	500	500	WCSS	Springfield, Ohio.
	500	WSDA	Do.	250	250	WTFI	Toccoa, Ga.
1,410 (212.8)	500	WLTN	Do.	500	500	KTBS	Shreveport, La.
	500	WCMA	Culver, Ind.	1,450 (206.9)	250	WIBS	Kenilworth, N. J.
500	WBA	Lafayette, Ind.	250				
500	500	KFLV	Rockford, Ill.	250	250	WJNC	Newark, N. J.
250	250	WDAQ	Amarillo, Tex.	250	250	WKBO	Jersey City, N. J.
1,000	1,000	KGRS	Do.	250	250	WSAR	Fall River, Mass.
1,000	1,000	WGSP	Savannah, Ga.	500	500	WFJC	Akron, Ohio.
2,500	2,500	WHBL	Sheboygan, Wis.	500	500	WCSS	Springfield, Ohio.
500	500	WBCM	Hampton Township, Mich.	250	250	WTFI	Toccoa, Ga.
500	500			500	500	KTBS	Shreveport, La.

BROADCASTING STATIONS, BY FREQUENCIES—Continued

Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	
1,460 (205.5)	10,000	WJSV	Mount Vernon Hills, Va.	1,500 (200)	100	WWRL	Woodside, N. Y.	
	10,000	KSTP	Westcott, Minn.		<sup>1</sup> 250	} WLOE	Chelsea, Mass.	
1,470 (204.1)	5,000	WKBW	Amherst, N. Y.		<sup>2</sup> 100		100	WMPC
	5,000	KFJF	Oklahoma City, Okla.		100	KGDR	San Antonio, Tex.	
1,480 (202.7)	5,000	WRUF	Gainesville, Fla.		100	KGKB	Brownwood, Tex.	
	5,000	KGA	Spokane, Wash.		100	KGHI	Little Rock, Ark.	
	5,000	WSOA	Deerfield, Ill.		100	WMBA	Newport, R. I.	
	5,000	WCKY	Villa Madonna, Ky.		50	WMES	Boston, Mass.	
	5,000	WJAZ	Mount Prospect, Ill.		50	WNBF	Binghamton, N. Y., (near)	
1,490 (201.3)	5,000	WORD	Batavia, Ill.		100	WMBQ	Brooklyn, N. Y.	
	1,000	WFBL	Syracuse, N. Y.	100	WLBX	Long Island City, N. Y.		
	5,000	WTNT	Nashville, Tenn.	100	WAFD	Detroit, Mich.		
	5,000	WLAC	Do.	100	WMBJ	Wilkesburg, Pa.		
	1,000	WFBL	Syracuse, N. Y.	100	WHBW	Philadelphia, Pa.		
	1,000	KPWF	Westminster, Calif., (Santa Ana)	10	WRBJ	Hattiesburg, Miss.		
1,500 (200)	100	KGFI	Corpus Christi, Tex.	10	WMBM	Memphis, Tenn.		
	10	KUJ	Longview, Wash.	50	KGHX	Richmond, Tex.		
	100	WOPI	Bristol, Tenn.	100	WKBV	Brookville, Ind.		
	50	WPSW	Philadelphia, Pa.	100	KWTC	Santa Ana, Calif.		
	100	KPJM	Prescott, Ariz.	100	KDB	Santa Barbara, Calif.		
					100	WCLB	Long Beach, N. Y.	
				50	WKBZ	Ludington, Mich.		
				15	KWBS	Portland, Oreg.		

<sup>1</sup> Day.  
<sup>2</sup> Night.

<sup>3</sup> Normally.  
<sup>4</sup> Experimentally.

# GOVERNMENT LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

[This table includes all Government land radio stations of the United States. Wave lengths in *italics* (in this table only) are used for "listening in and calling"]

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Aberdeen Proving Grounds, Md.	FX	WUN	200 (1,500), 275 (1,090)	O	Y	U. S. Army.
Afognak, Alaska	FX	WWT	250 (1,200), 500 (600)	O	X	Department of Commerce, Bureau of Fisheries.
Akiak, Alaska	FX	WWF	500 (600), 705 (425)	O	X	Do.
Ambrose Channel Lightship, N. Y.	FC	WRG	375 (800), 410 (730), 500 (600)	O 1*	(?)	Department of Commerce, Bureau of Lighthouses.
Anacortes, Wash., (section base 12)	FC	NFG		O		U. S. Coast Guard.
Anacostia, D. C.	FA	NSF		O		U. S. Navy.
Annapolis, Md., (Naval Academy)	FC	NAK		O		Do.
Annapolis, Md. (See Washington, D. C.)	FX	NSS		O		Do.
Annapolis, Md. (laboratory)	FX	NZO		O		Do.
Arlington, Va. (See Washington, D. C.)	FX	NAA		O		Do.
Astoria, Oreg., radio	FC	NPE	102 (2,939), <sup>3</sup> 500 (600)	PG	N	Do.
Atka Island, Alaska	FX	WJI		O	X	Department of Interior, Bureau of Education.
Atlanta, Ga.	FX	WHZ	3,340 (89.8), <i>3,370 (89)</i> , 5,925 (50.63), <i>5,940 (50.51)</i>	O	(?)	Department of Commerce, Bureau of Lighthouses.
Atlanta, Ga. (sixth district reserve unit)	FX	NDJ		O	X	U. S. Navy.
Balboa, Canal Zone, radio, (Darien)	FX, FC	NBA	46 (6,518), <sup>9</sup> 7 102 (2,939), 143 (2,100), 500 (600)	PG	N	Do.
Balboa, Canal Zone, (control)	FX, FC	NFD		O		Do.
Baltimore, Md., (fifth district reserve unit)	FX	NDK		O	X	Do.
Barataria, La. (Grande Isle)	FC	NVG		O		U. S. Coast Guard.
Bar Harbor, Me., radio	FC	NBD	122 (2,460), 143 (2,100), 500 (600)	PG	N	U. S. Navy.
Barnegat Lightship, N. J.	FC	WRA	410 (730), 500 (600)	O 1		Department of Commerce, Bureau of Lighthouses.
Bellefonte, Pa.	FX	WWQ	<i>230 (1,304)</i> , 238 (1,260), 315 (950), 333 (900), 3,355 (89.4), <i>3,370 (89)</i> , 5,930 (50.59), <i>5,940 (50.51)</i>	O	N	Do.
Bellevue, D. C.	FX	NKF		O		U. S. Navy.
Bethel, Alaska	FX	WXI	659 (455)	PR	Y	U. S. Army.
Biloxi, Miss., (section base 15)	FC	NSG		O		U. S. Coast Guard.
Blunts Reef Lightship, Calif.	FC	KCM	375 (800), 410 (730), 500 (600)	O 1	(?)	Department of Commerce, Bureau of Lighthouses.
Boise, Idaho	FA, FX	KCR	2,972 (100.94), <i>3,370 (89)</i> , 3,394 (88.4), <i>5,940 (50.51)</i>	O		Do.
Bolling Field, D. C. (Anacostia)	FA, FX	WYB	200 (1,500)	O	Y	U. S. Army.
Boston Lightship, Mass.	FC	WPO	375 (800), 410 (730), 500 (600)	O 1	(?)	Department of Commerce, Bureau of Lighthouses.

\* See footnotes to this table on p. 139.



Boston, Mass.	FC	NAD	102 (2,939)*
Do.	FA, FX	WSX	201 (1,493), 230 (1,304), 3,370 (89), 3,364 (88.4), 4,071 (73.7), 5,940 (50.51).
Do	FX	WVO	212 (1,415), 223 (1,345), 4,445 (67.5), 8,890 (33.75)
Bowman Field, Ky., (Louisville)	FA, FX	WYW	200 (1,500)
Brownsville, Tex.	FC	NAY	104 (2,883) <sup>10</sup>
Brunswick Lightship, Ga.	FC	WSJ	375 (800), 410 (730), 500 (600)
Bryan, Ohio	FX, FA	KRL	250 (1,304), 238 (1,260), 3,365 (89.1), 3,370 (89), 5,940 (50.51), 5,945 (50.46).
Buffalo, N. Y.	FC	NCB	200 (1,500)
Burgess Field, Pa., (Uniontown)	FA, FX	WYI	3,347.5 (89.6), 3,370 (89), 5,940 (50.51), 5,957.5 (50.35)
Burley, Idaho	FX	KNV	212 (1,415)
Camp Devens, Mass. (Ayer)	FX	WUA	275 (1,090), 4,090 (73.35), 8,180 (36.67)
Camp Harry J. Jones (Douglas), Ariz.	FX	WZM	187 (1,605)
Camp John Hay, P. I.	FX	WZQ	275 (1,090)
Camp Knox, Ky.	FX	WTY	275 (1,090), 4,090 (73.35), 8,180 (36.67)
Camp Marfa, Tex.	FX	WUG	275 (1,090), 445 (675)
Camp McClellan (Anniston), Ala.	FA, FX	WUR	666 (450)
Camp Nichols, P. I. (Rizal)	FX	WYT	275 (1,090), 4,090 (73.35), 8,180 (36.67)
Camp Stephen D. Little (Nogales), Ariz.	FX	WZL	187 (1,605)
Camp Stotsenburg, P. I.	FX	WZN	410 (730), 500 (600)
Cape Henry, Va. (section base 8)	FC	NHG	112 (2,677), 500 (600)
Cape Lookout Shoals Lightship, N. C.	FC	WRY	500 (600), 750 (400), 870 (345), 1,010 (297), 1,172 (256)
Cape Mala, Canal Zone Radio	FC	NNT	375 (800), 500 (600)
Cape May, N. J.	FC	NCY	
Cape Sarichef Light Station, Alaska	FC	KCA	
Cape Spencer Light Station, Alaska	FC	KCC	
Cape St. Elias Light Station, Alaska	FC	KCD	
Cavite, P. I. (Los Banos)		NLB	56 (5,354) <sup>11 12 13</sup> , 108 (2,776) <sup>11 12 13</sup> , 8,872 (33.81) <sup>11 12 13</sup> , 13,308 (22.54) <sup>11 12 13</sup>
Cavite, P. I.		NPO	200 (1,500)
Chanute Field (Rantoul), Ill.	FA, FX	WYJ	122 (2,458) <sup>14</sup> , 500 (600)
Charleston, S. C., radio	FC	NAO	3,410 (88)
Cheboygan Range, Mich.	FX	WWG	375 (800), 410 (730), 500 (600)
Chesapeake Lightship, Va.	FC	WRS	206 (1,456), 230 (1,304), 3,362.5 (89.2), 3,370 (89), 5,937.5 (50.52), 5,940 (50.51)
Cheyenne, Wyo.	FX	KSG	220 (1,364), 4,380 (68.49), 6,900 (42.92), 8,760 (34.25), 13,140 (22.83)
Chicago, Ill.	FX	WVT	172 (1,745), 343 (875)
Circle, Alaska	FX	WXD	666 (450)
Clark Field (Camp Stotsenburg), P. I.	FA, FX	WYS	230 (1,304), 238 (1,260), 333 (900), 344 (870), 3,360 (89.3), 3,370 (89), 5,935 (50.54), 5,940 (50.51)
Cleveland, Ohio	FX	WWO	
Coco Solo, Canal Zone	FC	NBC	132 (2,271) <sup>8 14</sup> , 500 (600)
Colon, Panama Radio	FC	NAX	

O		U. S. Navy.
O		Department of Commerce, Bureau of Lighthouses.
O	Y	U. S. Army.
O	Y	Do.
O		U. S. Navy.
O 1	(?)	Department of Commerce, Bureau of Lighthouses.
O	N	Do.
O		U. S. Coast Guard.
O	Y	U. S. Army.
O	X	Department of Commerce, Bureau of Lighthouses.
O	Y	U. S. Army.
O	Y	Do.
O	Y	Do.
O	Y	Do.
O	Y	Do.
O	Y	Do.
O	Y	Do.
O	Y	Do.
O 1	(?)	U. S. Coast Guard.
PG	X	Department of Commerce, Bureau of Lighthouses.
O		U. S. Navy.
O	X	U. S. Coast Guard.
O		Department of Commerce, Bureau of Lighthouses.
O		Do.
O		Do.
O		U. S. Navy.
O		Do.
O	Y	U. S. Army.
PG	N	U. S. Navy.
O	X	Department of Commerce, Bureau of Lighthouses.
O	(?)	Do.
O	N	Do.
O	N	U. S. Army.
PR	Y	Do.
O	Y	Do.
O	N	Department of Commerce, Bureau of Lighthouses.
O		U. S. Navy.
PG	N	Do.

RADIO STATIONS OF THE UNITED STATES

GOVERNMENT LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Columbia River Lightship, Oreg.	FC	KCK	375 (800), 410 (730), 500 (600)	O <sup>1</sup>	(4)	Department of Commerce, Bureau of Lighthouses.
Cordova, Alaska Radio	FC	NPA	106 (2,828), 500 (600)	PG	N	U. S. Navy.
Cordova, Alaska	FX	WTU	273 (1,100)	O	Y	U. S. Army.
Cornfield Point Lightship, Conn.	FC	WPX	410 (730), 500 (600)	O <sup>1</sup>	(4)	Department of Commerce, Bureau of Lighthouses.
Craig, Alaska	FX	W XO	480 (625), 618 (485), 666 (450)	PR	Y	U. S. Army.
Crescent City Light Station, Calif.	FX	KCH	561 (536)	O	X	Department of Commerce, Bureau of Lighthouses.
Crissy Field (Presidio of San Francisco), Calif.	FA-FX	WZZ	200 (1,500), 220 (1,364)	O	Y	U. S. Army.
Cumberland Field (Cumberland), Md.	FA-FX	WYL	200 (1,500)	O	Y	Do.
Curtis Bay, Md.	FC	NGM		O		U. S. Coast Guard.
Dahlgren, Va.	FX	NDY		O		U. S. Navy.
Dayton, Ohio	FA-FX	WYD	200 (1,500)	O	Y	U. S. Army.
Denver, Colo. (Fitzsimons General Hospital).	FX	WTS	315 (950), 4,090 (73.35), 8,180 (36.67)	O	Y	Do.
Detroit Lighthouse Depot, Mich.	FX	WWR	3,410 (88)	O	X	Department of Commerce, Bureau of Lighthouses.
Detroit River Light Station, Mich.	FX	WVN	do	O		Do.
Diamond Shoals Lightship, N. C.	FC	WVR	375 (800), 410 (730), 500 (600)	O	(2)	Do.
Dillingham, Alaska	FX	WZE	223 (1,345)	PR	Y	U. S. Army.
Dryden, Tex.	FA-FX	WYY	200 (1,500)	O	Y	Do.
Dry Tortugas Light Station, Fla.	FC	WST	425 (705), 500 (600)	O		Department of Commerce, Bureau of Lighthouses.
Dutch Harbor, Alaska Radio	FC	NPR	185 (1,621), <sup>18</sup> 500 (600)	PG	N	U. S. Navy.
Elko, Nev.	FX	KOJ	210 (1,420), 250 (1,304), 3,370 (89), 3,372.5 (88.9), 5,940 (50.51), 5,952.5 (50.39)	O	(12)	Department of Commerce, Bureau of Lighthouses.
Eureka, Calif., Radio	FC	NPW	108 (2,776), <sup>18</sup> 500 (600)	PG	N	U. S. Navy.
Fairbanks, Alaska	FX	WXP	81 (3,704)	PR	Y	U. S. Army.
Fenwick Island Shoal Lightship, Del.	FC	WRN	375 (800), 410 (730), 500 (600)	O <sup>1</sup>	(2)	Department of Commerce, Bureau of Lighthouses.
Fernandina, Fla. (section base 20)	FC	NFB		O		U. S. Coast Guard.
Fire Island Lightship, N. Y.	FC	WPZ		O <sup>1</sup>	(2)	Department of Commerce, Bureau of Lighthouses.
Five Fathom Bank Lightship, N. J.	FC	WRE		O	(2)	Do.
Fort Adams (Newport), R. I.	FX	WUU	212 (1,415)	O	Y	U. S. Army.
Fort Barrancas (Pensacola), Fla.	FX	WZD	275 (1,090)	O	Y	Do.
Fort Benjamin Harrison (Indianapolis), Ind.	FX	WVS	192 (1,560)	O	Y	Do.
Fort Benning (Columbus), Ga.	FX	WUO	212 (1,415)	O	Y	Do.
Fort Bliss (El Paso), Tex.	FX	WZO	78 (3,840), 4,090 (73.35), 8,180 (36.67)	O	Y	Do.
Fort Brady (Sault Ste. Marie), Mich.	FX	WTH	250 (1,200)	O	Y	Do.

Fort Bragg (Fayetteville), N. C.	FX	WZG	200 (1,500), 219 (1,370)	O	Y	Do.
Fort Brown (Brownsville), Tex.	FX	WUZ	275 (1,090), 4,090 (73.35), 8,180 (36.67)	O	Y	Do.
Fort Clark (Brackettville), Tex.	FX	WZB	do.	O	Y	Do.
Fort Crockett (Galveston), Tex.	PA, FX	WUY	200 (1,500), 275 (1,090)	O	Y	Do.
Fort D. A. Russell, Wyo.	FX	WVW	192 (1,567), 4,090 (73.35), 8,180 (36.67)	O	Y	Do.
Fort Des Moines (Des Moines), Iowa.	FX	WZT	445 (675)	O	Y	Do.
Fort Douglas (Salt Lake City), Utah.	FX	WVX	192 (1,567), 4,030 (74.45), 8,060 (37.22)	O	Y	Do.
Fort Egbert, Alaska.	FX	WXQ	681 (440)	PR	Y	Do.
Fort Ethan Allen (Essex Junction), Vt.	FX	WUX	212 (1,415)	O	Y	Do.
Fort Eustis, Va.	FX	WUD	250 (1,200), 275 (1,090)	O	Y	Do.
Fort Frank, P. I. (Carabao Island)	FX	WUE	625 (480)	O	Y	Do.
Fort George G. Meade, Md.	FX	WUK	275 (1,090)	O	Y	Do.
Fort Gibbon (Tanana), Alaska.	FX	WXS	500 (600), 525 (571)	PR	Y	Do.
Fort Grant, Canal Zone.	FX	WZY	173 (1,730), 666 (450), 750 (400)	O	Y	Do.
Fort Hancock (Highland Beach), N. J.	FX	WUB	275 (1,090)	O	Y	Do.
Fort Hayes (Columbus), Ohio.	FX	WVZ	212 (1,415), 4,080 (73.53), 6,990 (42.92), 8,160 (36.76)	O	N	Do.
Fort H. G. Wright, N. Y.	FX	WUC	212 (1,415)	O	Y	Do.
Fort Howard (Baltimore), Md.	FX	WVQ	192 (1,567)	O	Y	Do.
Fort Huachuca, Ariz.	FX	WZP	275 (1,090), 4,090 (73.35), 8,180 (36.67)	O	Y	Do.
Fort Kanehameha (Honolulu), Hawaii.	FX	WTO	185 (1,620)	O	Y	Do.
Fort Lauderdale, Fla. (section base 6)	FC	NBI		O		U. S. Coast Guard.
Fort Leavenworth (Leavenworth), Kans.	FX	WVC	72 (4,170), 217 (1,380), 4,305 (69.7), 4,375 (68.571), 8,610 (34.84), 8,750 (34.29), 13,125 (22.86), 17,500 (17.143)	O	N	U. S. Army.
Fort Lewis, Wash.	FX	WUJ	220 (1,364), 4,030 (74.44), 8,060 (37.22)	O	Y	Do.
Fort McArthur, Calif.	FX	WZW	173 (1,730), 227 (1,320)	O	Y	Do.
Fort McIntosh (Laredo), Tex.	FX	WUH	275 (1,090)	O	Y	Do.
Fort McKinley, P. I. (Rizal)	FX	WTK	4,305 (69.7), 8,610 (34.84)	O	Y	Do.
Fort McPherson, Ga.	FX	WVR	105 (2,860), 4,310 (69.61), 6,990 (42.92), 8,620 (34.80)	O	N	Do.
Fort Mills, P. I. (Corregidor Island)	FX	WUP	187 (1,600), 222 (1,350), 272 (1,100)	O	Y	Do.
Fort Monmouth (Long Branch laboratories), N. J.	FX	WLY	Variable.	O	(19)	Do.
Fort Monmouth, N. J.	FX	WTW	185 (1,620), 200 (1,500), 275 (1,090), 6,990 (42.92)	O	Y	Do.
Fort Monroe, Va.	FX	WUF	275 (1,090)	O	Y	Do.
Fort Oglethorpe, Ga.	FX	WUS	280 (1,071)	O	Y	Do.
Fort Omaha, Nebr.	FX	WVU	173 (1,730), 4,440 (67.57), 6,990 (42.92), 8,880 (33.78), 13,320 (22.52)	O	Y	Do.
Fort Preble, Me.	FX	WTN	212 (1,415)	O	Y	Do.
Fort Randolph, Canal Zone.	FX	WZV	750 (400), 1,110 (270.3)	O	Y	Do.
Fort Riley, Kans.	FX	WUI	200 (1,500), 250 (1,200), 4,430 (67.72), 8,860 (33.86)	O	Y	Do.
Fort Ringgold, Tex.	FX	WZI	275 (1,090)	O	Y	Do.
Fort Rodman, Mass.	FX	WTR	212 (1,415)	O	Y	Do.
Fort Ruger, Hawaii.	FX	WTP	185 (1,620)	O	Y	Do.
Fort St. Michael, Alaska.	FX	WXT	652 (460)	PR	Y	Do.
Fort Sum Houston (San Antonio), Tex.	FX	WVB	51 (5,880), 275 (1,090), 4,090 (73.35), 4,430 (67.72), 6,990 (42.92), 8,180 (36.67), 8,860 (33.86), 13,280 (22.57), 17,720 (16.930)	O	N	Do.
Fort Shafter, Hawaii (Honolulu)	FX	WTJ	185 (1,620), 4,080 (73.53), 8,160 (36.76), 12,240 (24.51), 16,320 (18.352), 20,425 (14.687)	O	Y	Do.
Fort Sherman, Canal Zone.	FX	WZU	750 (400)	O	Y	Do.

GOVERNMENT LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Fort Sill, Okla.	FX	WTZ	200 (1,500), 275 (1,090), 4,000 (73.35), 8,180 (36.67)	O	Y	U. S. Army.
Fort Snelling, Minn.	FX	WZS	205 (1,465)	O	Y	Do.
Fort Story, Va.	FX	WUT	275 (1,090)	O	Y	Do.
Fort Thomas, Ky.	FX	WUV	do	O	Y	Do.
Fort Totten, N. Y.	FX	WUL	do	O	Y	Do.
Fortuna Lodge, Alaska	FX	WXN	566 (530)	PR	Y	Do.
Fort Wayne (Battle Creek), Mich.	FX	WTD	227 (1,320), 275 (1,090)	O	Y	Do.
Fort Wint, P. I. (Grande Island)	FX	WTB	200 (1,500), 272 (1,100)	O	Y	Do.
Fort Worth, Tex.	FX	KKJ	3,350 (89.6), 3,370 (89), 5,940 (50.51), 5,960 (50.34)	O	(*)	Department of Commerce, Bureau of Lighthouses.
Fort Yukon, Alaska	FX	WXX	476 (630)	PR	Y	U. S. Army.
Fourteen Foot Shoals, Mich.	FX	WWE	3,410 (88)	O	X	Department of Commerce, Bureau of Lighthouses.
France Field, Canal Zone (Cristobal)	FA, FX	WYP	200 (1,500)	O	Y	U. S. Army.
Fresno, Calif.	FX	KCU	218 (1,376), 230 (1,304), 3,345 (89.6), 3,370 (89), 5,920 (50.68), 5,940 (50.51)	O		Department of Commerce, Bureau of Lighthouses.
Frying Pan Shoals Lightship, N. C.	FC	WSD	375 (800), 410 (730), 500 (600)	O	(?)	Do.
Gloucester, Mass.	FC	NGL		O		U. S. Coast Guard.
Governors Island, N. Y.	FX	WYP	212 (1,415), 223 (1,345), 275 (1,090), 6,990 (42.92)	O	N	U. S. Army.
Great Lakes, Ill.	FC	NAJ	122 (2,458), <sup>1 21</sup>	O		U. S. Navy.
Greensboro, N. C.	FX	WRW	3,340 (89.8), 3,370 (89), 5,940 (50.51), 5,925 (50.63)	O	(*)	Department of Commerce, Bureau of Lighthouses.
Grundler, Alaska	FX	WZA	645 (465)	PR	Y	U. S. Army.
Guam, Mariana Island Radio	FC, FX	NPN	50.4 (5,949), 132 (2,271), 500 (600)	PG	N	U. S. Navy.
Guantanamo Bay, Cuba	FX, FC	NAW	113 (2,653) <sup>22</sup>	O	N	Do.
Haines, Alaska	FX	WTV	284 (1,055)	PR	Y	U. S. Army.
Hampton Roads, Va. (naval operating base)		NHR		O		U. S. Navy.
Hatbox Field, Okla (Muskogee)	FA, FX	WYN	200 (1,500)	O	Y	U. S. Army.
Heald Bank Lightship, Tex.	FC	WSU	375 (800), 410 (730), 500 (600)	O	(?)	Department of Commerce, Bureau of Lighthouses.
Heeia Point, Hawaii. (Sec Honolulu, Hawaii)		NHP		O		U. S. Navy.
Hilo, Hawaii	FC	NPH		O		Do.
Holy Cross, Alaska	FX	WXM	638 (470)	PR	Y	U. S. Army.
Honolulu, Hawaii (Wailupe)		NFW		O		U. S. Navy.
Honolulu, Hawaii (Heeia Point)	FX	NHP	54 (5,552) <sup>23</sup>	O		Do.
Honolulu, Hawaii (Pearl Harbor)	FX	NPM	26.1 (11,490), <sup>24</sup> 106 (2,828) <sup>24</sup>	O		U. S. Army.
Hot Springs, Alaska	FX	WXX	550 (545)	PR	Y	Do.
Iditarod, Alaska	FX	WXL	54 (5,555), 86 (3,490)	PR	Y	Do.
Iowa City, Iowa	FX	KIS	206 (1,456), 250 (1,304), 3,340 (89.8), 3,342.5 (89.7), 5,370 (89), 5,922.5 (50.66), 6,940 (50.51)	O	N	Department of Commerce Bureau of Lighthouses.
Jacksonville, Fla. (seventh district reserve unit).	FX	NDU		O	X	U. S. Navy.



Jefferson Barracks (St. Louis), Mo.	FX	WVW	222 (1,350)	O	Y	U. S. Army.
Juneau, Alaska	FX	WXA	133 (2,255)	PR	Y	Do.
Jupiter, Fla.	FC	NAQ	185 (1,621) <sup>24</sup>	O	(14)	U. S. Navy.
Kansas City, Mo.	FX	KRC	3,350 (89.6), 3,370 (89), 5,940 (50.51), 5,960 (50.34)	O		Department of Commerce, Bureau of Lighthouses.
Kelly Field (San Antonio), Tex.	FX	WYG	200 (1,500)	PG-PR	Y	U. S. Army.
Ketchikan, Alaska	FC, FX	WXH	66 (4,550), 173 (1,730), 500 (600), 550 (545), 4,025 (74.5), 8,050 (37.27), 12,075 (24.85), 16,100 (18.634), 20,125 (14.92)	O	N	Do.
Key West, Fla., radio	FC	NAR	106 (2,828), 113 (2,853), <sup>13</sup> 500 (600)	PG	N	U. S. Navy.
Key West, Fla.	FX	WBP	3,350 (89.6), 3,370 (89), 5,940 (50.51), 5,960 (50.34)	O	X	Department of Commerce, Bureau of Lighthouses.
Kindley Field, P. I. (Corregidor Island).	FA, FX	WYR	631 (475), 666 (450)	O	Y	U. S. Army.
Kodiak, Alaska, radio	FC	NPS	112 (2,677), 500 (600)	PG	N	U. S. Navy.
Kotzebue, Alaska	FX	WXW	689 (435.4)	PR	Y	U. S. Army.
La Crosse, Wis.	FA, FX	WSG		O		Department of Commerce, Bureau of Lighthouses.
La Grande, Ore.	FA, FX	KCS	2,962 (101.3), 3,370 (89), 4,065 (73.8), 5,940 (50.51)	O		Do.
Lakehurst, N. J.	FX, FA	NEL		O	Y	U. S. Navy.
Langley Field (Hampton), Va.	FA, FX	WYC	200 (1,500), 275 (1,090)	O		U. S. Army.
Lansing Shoal Lightship, Mich.	FC	WWZ		O		Department of Commerce, Bureau of Lighthouses.
La Palma, Panama, radio	FC	NNW	128 (2,342), 500 (600)	PG	X	U. S. Navy.
Livengood, Alaska	FX	WXF	625 (480)	PR	Y	U. S. Army.
Long Beach, Calif. (naval reserve air base).	FA, FX	WYZ	200 (1,500)	O	Y	U. S. Army.
Lordsburg, N. Mex.	FX	KCT	198 (1,515), 230 (1,304), 3,345 (89.6), 3,370 (89), 5,920 (50.68), 5,940 (50.51)	O		Department of Commerce, Bureau of Lighthouses.
Los Angeles, Calif.	FX	NDV		O	X	U. S. Navy.
Los Angeles, Calif. (eleventh district reserve unit).	FX	WZH	4,030 (74.44), 8,060 (37.22)	O	Y	U. S. Army.
Los Angeles, Calif.	FX	WYO	200 (1,500)	O	Y	Do.
Love Field (Dallas), Tex.	FA, FX	WYQ	200 (1,500)	O	Y	Do.
Luke Field (Pearl Harbor), Hawaii	FA, FX	WYQ	200 (1,500)	O	X	U. S. Navy.
Madison, Wis. (ninth district reserve unit).	FX	NDP		O		Department of Commerce, Bureau of Lighthouses.
Makapuu Point Light Station, (Oahu Island), Hawaii	FC	KCP	425 (705), 500 (600)	O		U. S. Navy.
Managua, Nicaragua	FX	NAZ		O	N	U. S. Army.
Manila (Fort Santiago-Luzon), P. I.	FX	WTA	187 (1,605), 4,030 (74.44), 4,305 (69.69), 8,060 (37.22), 8,610 (34.84), 12,060 (24.81), 16,120 (18.610), 20,150 (14.888)	O		Do.
March Field, Calif.	FA, FX	WTC	200 (1,500), 220 (1,364)	O	Y	Department of Commerce, Bureau of Lighthouses.
Marquette Light Station, Mich.	FX	WWM	3,410 (388)	O	Y	U. S. Army.
Maxwell Field, Ala.	FA, FX	WYK	200 (1,500)	O	N	Department of Commerce, Bureau of Lighthouses.
Maywood, Ill.	FX	KDA	230 (1,304), 238 (1,260), 3,370 (89), 3,375 (88.8), 5,940 (50.51), 5,950 (50.42)	O		Do.
Medford, Ore.	FX	KCX	204 (1,470), 230 (1,304), 3,345 (89.6), 3,370 (89), 5,920 (50.68), 5,940 (50.51)	O		U. S. Army.
Middletown, Pa.	FA, FX	WYU	200 (1,500), 275 (1,090)	O	Y	Do.
Mitchel Field, N. Y. (Mineola, L. I.)	FA, FX	WYA	200 (1,500), 275 (1,090)	O		U. S. Coast Guard.
Mobile, Ala.	FC	NCK		O		

GOVERNMENT LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Moline, Ill.-----	FX	WNI	3,350 (89.6), 3,370 (89), 5,940 (50.51), 5,960 (50.34)-----	O	(20)	Department of Commerce, Bureau of Lighthouses.
Nahant, Mass.-----	FC	NCP	-----	O	-----	U. S. Coast Guard.
Nantucket Shoals Lightship, Mass.-----	FC	WPS	375 (800), 410 (730), 500 (600)-----	O 1	(17)	Department of Commerce, Bureau of Lighthouses.
Naval Academy, Md. (See Annapolis, Md.)-----	FC	NAK	-----	-----	-----	U. S. Navy.
Naval land station (any or all)-----	-----	NQO	-----	O	X	Do.
Navassa Island Light Station, Windward Islands (Windward Passage).-----	FC	WSZ	375 (800), 410 (730), 500 (600)-----	-----	-----	Department of Commerce, Bureau of Lighthouses.
New Brunswick, N. J. (Hadley Field)-----	FA, FX	WWU	250 (1,505), 238 (1,260), 333 (900), 338 (800), 3,345 (89.6), 3,370 (89), 5,920 (50.68), 5,940 (50.51).-----	O	N	Do.
New London, Conn.-----	FC	NBL	-----	O	-----	U. S. Navy.
New London, Conn. (Coast Guard Academy).-----	FX	NGH	-----	O	-----	U. S. Coast Guard.
New London, Conn.-----	FC	NLO	-----	O	-----	Do.
New Orleans, La.-----	FC	NAT	104 (2,883) <sup>28 29</sup> -----	O	-----	U. S. Navy.
New Orleans, La. (eighth district reserve unit).-----	FX	NDZ	-----	O	X	Do.
Newport, R. I.-----	FC	NAF	-----	O	-----	Do.
Newport, R. I. (torpedo station).-----	FX	NBK	-----	O	X	Do.
Do.-----	-----	NHB	-----	O	X	Do.
New Shoreham Station, Block Island, R. I.-----	FC	NGB	-----	O	-----	U. S. Coast Guard.
New York, N. Y.-----	FC	NAH	102 (2,939) <sup>30</sup> -----	O	-----	U. S. Navy.
New York, N. Y. (third district reserve unit).-----	FX	NDB	-----	O	X	Do.
Nome, Alaska, radio.-----	FC, FX	WXY	75 (4,000), 83 (3,610), 280 (1,070), 454 (660), 500 (600)-----	PG, PR	Y	U. S. Army.
Norfolk, Va., radio.-----	FC	NAM	122 (2,459), <sup>21 22</sup> 500 (600).-----	PG	N	U. S. Navy.
Norfolk, Va. (fifth district reserve unit).-----	FX	NDE	-----	O	X	Do.
Northeast End Lightship, N. J.-----	FC	WRD	375 (800), 410 (730), 500 (600)-----	O 1	(2)	Department of Commerce, Bureau of Lighthouses.
North Platte, Nebr.-----	FX	KVM	206 (1,456), 250 (1,304), 3,357.5 (88.1), 3,370 (89), 5,932.5 (50.56), 5,940 (50.51).-----	O	N	Do.
Nulato, Alaska.-----	FX	WXZ	93.7 (3,200), 167 (1,800), 471 (637)-----	PR	Y	U. S. Army.
Oakland, Calif.-----	FX	KCV	210 (1,429), 280 (1,304), 3,355 (89.4), 3,370 (89), 5,930 (50.50), 5,940 (50.51).-----	O	N	Department of Commerce, Bureau of Lighthouses.
Oakland, Calif. (twelfth district reserve unit).-----	FX	NDO	-----	O	X	U. S. Navy.
Oakland, Calif. (Government Island).-----	FC	NEG	-----	O	-----	U. S. Coast Guard.
Oahu, Samoa.-----	FX	NGX	-----	O	(13)	U. S. Navy.
Oklahoma City, Okla.-----	FX	KQK	3,350 (89.6), 3,370 (89), 5,940 (50.51), 5,960 (50.34)-----	O	(20)	Department of Commerce, Bureau of Lighthouses.

Olongapo, P. I.	FC	NPT		O		U. S. Navy.
Omaha, Nebr	FX	KJF	206 (1,456), 230 (1,304), 3,352.5 (89.5), 3,970 (89), 5,927.5 (50.63), 5,940 (50.51).	O	N	Department of Commerce, Bureau of Lighthouses.
Parris Island, S. C., radio	FC	NAV		PG	N	U. S. Navy.
Pearl Harbor, Hawaii. (See Honolulu, Hawaii)	FX	NPM	400 (750), 500 (600)			Do.
Pearl Harbor, Hawaii (subbase)	FX	NPY		O		Do.
Pekin, China	FX	NPP		O	N	Do.
Pensacola, Fla.	FX, FA	NAS	113 (2,653) <sup>M</sup> , 500 (600)	O	X	Do.
Pensacola, Fla. (eighth district reserve unit)	FX	NDD		PR	Y	U. S. Army.
Petersburg, Alaska	FX	WTQ	266 (1,125)	O		U. S. Navy.
Philadelphia, Pa.	FC	NAI	104 (2,885) <sup>AS</sup>	O	X	Department of Commerce, Bureau of Lighthouses.
Pleasant Valley, Nev	FX	KSQ	250 (1,304), 3,365 (89.1), 3,970 (89), 5,940 (50.51), 5,945 (50.46).	O	X	Do.
Poe Reef Lighthouse, Mich	FX	WRJ	3,410 (88)	PR	Y	U. S. Army.
Point Barrow, Alaska	FX	WXB	447 (670), 4,365 (68.7), 8,730 (34.36)	PR	Y	Department of Commerce, Bureau of Lighthouses.
Pollock Rip Slue Lightship, Mass.	FC	WPQ	375 (800), 410 (730), 500 (600)	O <sup>1</sup>	( <sup>2</sup> )	U. S. Coast Guard.
Port Angeles, Wash. (section base 13)	FC	NIG		PG	N	U. S. Navy.
Port au Prince, Haiti, radio	FC	NSC	58 (5,169), 132 (2,271), 500 (600)	O <sup>1</sup>	(2)	Department of Commerce, Bureau of Lighthouses.
Portland Lightship, Me.	FC	WPB	410 (730), 500 (600)	O		Do.
Portland, Oreg	FX	KCY	210 (1,429), 230 (1,304), 3,345 (89.6), 3,970 (89), 5,920 (50.68), 5,940 (50.51).	O		U. S. Navy.
Portsmouth, N. H.	FC	NAC		O		U. S. Coast Guard.
Port Townsend, Wash. (section base 10)	FC	NAG		PG	X	U. S. Navy.
Puerto Obaldia, Panama, radio	FC	NRK	128 (2,342), 500 (600)	O		Do.
Puget Sound, Wash. (Bremerton)	FC	NCH		O		Do.
Puget Sound, Wash. (Keyport)	FC	NPC	102 (2,939) <sup>17 18</sup>	O		Do.
Quantico, Va.	FX, FA	NFV		O		Do.
Quantico, Va. (marine school)	FX	NZY	4,365 (68.7), 8,730 (34.36), 13,095 (22.91), 17,460 (17.182)	O	N	U. S. Army.
Quarry Heights, Canal Zone	FX	WVL	224 (1,338), 230 (1,304), 3,345 (89.6), 3,370 (89), 5,920 (50.68), 5,940 (50.51).	O		Department of Commerce, Bureau of Lighthouses.
Redding, Calif	FX	KCW	375 (800), 410 (730), 500 (600)	O <sup>1</sup>	X	Do.
Relief Lightship No. 76	FC	KCO		O <sup>1</sup>	X	Do.
Relief Lightship No. 78	FC	WRF	do.	O <sup>1</sup>	X	Do.
Relief Lightship No. 80	FC	WRZ	do.	O <sup>1</sup>	X	Do.
Relief Lightship No. 85	FC	WPT	do.	O <sup>1</sup>	X	Do.
Relief Lightship No. 85	FC	WPW	do.	O <sup>1</sup>	X	Do.
Relief Lightship No. 90	FC	KCL	do.	O <sup>1</sup>	X	Do.
Relief Lightship No. 92	FC	WSN	do.	O <sup>1</sup>	N	Do.
Relief Lightship No. 109	FC	KLK	210 (1,429), 230 (1,304), 3,370 (89), 3,380 (88.8), 5,940 (50.51), 5,955 (50.36).	O		Do.
Reno, Nev	FX	WNR	3,340 (89.8), 3,370 (89), 5,925 (50.65), 5,940 (50.51)	O	( <sup>4</sup> )	U. S. Coast Guard.
Richmond, Va.	FC	NCG		O		Department of Commerce, Bureau of Lighthouses.
Rockaway Beach, N. Y.	FC	KDN	210 (1,429), 230 (1,304), 244 (1,230), 3,370 (89), 3,377.5 (88.8), 5,940 (50.51), 5,942.5 (50.43).	O	N	Do.
Rock Springs, Wyo.	FX			O	Y	U. S. Army.
Rockwell Field, Calif. (Coronado)	FA, FX	WYH	200 (1,500), 220 (1,364)	PR	Y	Do.
Ruby, Alaska	FX	WXU	750 (400)			

GOVERNMENT LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Sacramento, Calif. (Mather Field).....	FX	KOC	230 (1,304), 3,340 (89.8), 3,370 (89), 5,925 (50.63), 5,940 (50.51)	O	X	Department of Commerce, Bureau of Lighthouses.
St. Augustine, Fla., radio.....	FC	NAP	128 (2,342), 500 (600)	PG	(19, 49)	U. S. Navy.
St. Croix, Virgin Islands.....	FX	NNI		O	(34)	Do.
St. George, Alaska (Pribilof Islands).....	FX	WWD	315 (952), 445 (675), 500 (600)	O	X	Department of Commerce, Bureau of Fisheries.
St. George Reef Light Station, Calif.....	FX	KCG		O	X	Department of Commerce, Bureau of Lighthouses.
St. John, Virgin Islands.....	FX	NBO		O	(33)	U. S. Navy.
St. Louis, Mo.....	FA-FX	KCQ		O		Department of Commerce, Bureau of Lighthouses.
Do.....	FX	WZK	396 (760)	O	Y	U. S. Army.
St. Michael, Alaska. (See Fort St. Michael, Alaska).		WXT				
St. Paul, Alaska, radio.....	FC	NPQ	52 (5,766), 118 (2,541), 500 (600)	PG	N	U. S. Navy.
St. Petersburg, Fla.....	FC	NGK		O		U. S. Coast Guard.
St. Thomas, Virgin Islands, radio.....	FC	NBB	132 (2,271), 500 (600)	PG	N	U. S. Navy.
Salt Lake City, Utah.....	FX	KGD	210 (1,429), 230 (1,304), 3,367.5 (89.3), 3,370 (89), 5,940 (50.51) 5,942.5 (50.48)	O	N	Department of Commerce, Bureau of Lighthouses.
San Diego, Calif. (naval headquarters).....	FX-FC	NCD		O		U. S. Navy.
San Diego, Calif. (eleventh district reserve unit).....	FX	NDT		O	X	Do.
San Diego, Calif. (Chollas Heights).....	FX-FC	NPL	30.6 (9,798), <sup>1</sup> 102 (2,939) <sup>1</sup>	O		Do.
San Diego, Calif. (laboratory).....	FX	NQG		O		Do.
San Francisco, Calif.....	FC	NGC		O		U. S. Coast Guard.
San Francisco, Calif. (naval headquarters).....	FX-FC	NIK		O		U. S. Navy.
San Francisco, Calif. (Mare Island).....	FX-FC	NPG	42.8 (7,005), <sup>42</sup> <sup>43</sup> <sup>44</sup> 66 (4,543), <sup>44</sup> 108 (2,776), <sup>42</sup> <sup>43</sup> <sup>44</sup> <sup>45</sup> 8,590 (34.90) <sup>45</sup> <sup>44</sup>	O		Do.
San Francisco, Calif. (Presidio of San Francisco).....	FX	WVY	173, (1,730), 4,030 (74.45), 4,300 (69.77), 6,990 (42.92), 8,060 (37.22), 8,600 (34.88), 12,900 (23.26), 17,200 (17,443)	O	N	U. S. Army.
San Francisco Lightship, Calif.....	FC	KCN	375 (800), 410 (730), 500 (600)	O <sup>1</sup>	(45)	Department of Commerce, Bureau of Lighthouses.
San Juan, P. R., radio (Cayey).....	FX-FC	NAU	48 (6,246), <sup>47</sup> 113 (2,653), <sup>48</sup> 500 (600)	PG	N	U. S. Navy.
San Juan, P. R. (Control).....	FX-FC	NCQ		O		Do.
San Pedro, Calif.....	FC	NGQ		O		U. S. Coast Guard.
Savannah, Ga., radio.....	FC	NEV	185 (1,621), <sup>49</sup> 500 (600)	PG	N	U. S. Navy.
Savoonga, Alaska (St. Lawrence Island).....	FX	WWP	425 (705), 500 (600)	O	X	Department of Interior, Bureau of Education.
Schofield Barracks, Hawaii.....	FX	WZJ	185 (1,620)	O	Y	U. S. Army.
Scotch Cap Light Station, Alaska.....	FC-FX	KCB	500 (600)	O	X	Department of Commerce, Bureau of Lighthouses.
Scott Field, Ill. (Belleville).....	FA-FX	WYF	200 (1,500)	O	Y	U. S. Army.



Seattle, Wash.-----	FX	KCZ	290 (1,304), 238 (1,261), 3,345 (89.6), 3,370 (89), 5,920 (50.68), 5,940 (50.51).	O	-----	Department of Commerce, Bureau of Lighthouses.
Do-----	FC	NGT		O	N	U. S. Coast Guard.
Do-----	FX	WVD	4,085 (73.45), 8,170 (36.72), 12,255 (24.45), 16,340 (18.36). 20,400 (14.70).	O	X	U. S. Army.
Seattle, Wash. (thirteenth district reserve unit).-----	FX	NDQ		O	Y	U. S. Navy.
Selfridge Field, Mich. (Mt. Clemens).-----	FA-FX	WYE	200 (1,500), 275 (1,090)	O	Y	U. S. Army.
Seward, Alaska, radio.-----	FC-FX	WXR	100 (3,000), 120 (2,500), 200 (1,500), 275 (1,090), 4,365 (68.73), 8,730 (34.36), 13,095 (22.91), 17,460 (17.182).	PG-PR	N	Do.
Sitka, Alaska, radio.-----	FC	NPB	104 (2,883), 500 (600)	PG	N	U. S. Navy.
Sitka, Alaska.-----	FX	WXC	250 (1,200)	PR	Y	U. S. Army.
Skagway, Alaska.-----	FX	WZC	4,310 (89.61), 8,620 (34.80)	PR	Y	Do.
South Pass Lightship, La.-----	FC	WSW	500 (600)	O <sup>1</sup>	(?)	Department of Commerce, Bureau of Lighthouses.
Spartanburg, S. C.-----	FX	WFT	3,340 (89.8), 3,370 (89), 5,940 (50.51), 5,925 (50.63)	PG-PR	(?)	Do.
Squaw Harbor, Alaska, radio (Unga Island).-----	FC FX	WZF	500 (600), 4,365 (68.74), 8,730 (34.36)	O	Y	U. S. Army.
Stannard Rock Light Station, Mich.-----	FC	WWH	3,410 (88).	O	X	Department of Commerce, Bureau of Lighthouses.
Staten Island, N. Y. (Section Base 2).-----	FC	NBH		O	X	U. S. Coast Guard.
Strevell, Idaho.-----	FX	KME	3,347.5 (89.6), 3,370 (89), 5,940 (50.51), 5,957.5 (50.35)	O	X	Department of Commerce, Bureau of Lighthouses.
Swiftsure Bank Lightship, Wash.-----	FC	KCI	375 (800), 410 (730), 500 (600)	O <sup>1</sup>	(?)	Do.
Tacotna, Alaska.-----	FX	WXV	536 (560), 558 (540)	PR	Y	U. S. Army.
Tau, Samoa.-----	FX	NCM	500 (600)	O	Y	U. S. Navy.
Tientsin, China.-----	FX	WVN	4,430 (67.72), 8,860 (33.86), 13,290 (22.57), 17,720 (16.93)	O	Y	U. S. Army.
Tucson, Ariz.-----	FA-FX	WUM	200 (1,500)	O	Y	Do.
Tutuila, Samoa, radio.-----	FC	NPU	66 (4,543), 132 (2,271), 143 (2,100), 500 (600)	PG	N	U. S. Navy.
Umatilla Reef Lightship, Wash.-----	FC	KCJ	375 (800), 410 (730), 500 (600)	O <sup>1</sup>	(?)	Department of Commerce, Bureau of Lighthouses.
Unalaska, Alaska.-----	FC	NXG		O	Y	U. S. Coast Guard.
Valdez, Alaska, radio.-----	FC, FX	WXJ	500 (600), 666 (450)	PG, PR	Y	U. S. Army.
Vancouver Barracks, Wash.-----	FX	WTJ	220 (1,364), 4,030 (74.44), 8,060 (37.22)	O	Y	Do.
Washington, D. C., (Arlington, Va.).-----	FX	NAA	68 (4,409), <sup>30</sup> 113 (2,653), <sup>31</sup> 32 <sup>30</sup> 690 (434.5), 4,015 (74.72) <sup>31</sup> 33 <sup>34</sup> 8,030 (37.34), <sup>31</sup> 33 <sup>32</sup> 12,045 (24.9), <sup>31</sup> 33 <sup>33</sup> 16,060 (18.67). <sup>30</sup> 34	O	-----	U. S. Navy.
Washington, D. C. (Navy Yard).-----	FX	NAL	690 (434.5) <sup>33</sup>	O	-----	Do.
Washington, D. C. (Annapolis, Md.).-----	FX	NSS	17.8 (16,840) <sup>31</sup>	O	-----	Do.
Washington, D. C.-----	FC	NGA		O	X	U. S. Coast Guard.
Do-----	FX	WAR	4,020 (74.63), 4,025 (74.54), 4,255 (70.5), 6,990 (42.92), 8,040 (37.31), 8,050 (37.27), 8,510 (35.25), 12,060 (24.88), 12,075 (24.84), 12,765 (23.5), 16,080 (18.657), 16,100 (18,634), 17,020 (17,626), 20,125 (14,907).	O	N	U. S. Army.
Do-----	FX	WWX	82 (3,660), 88 (3,410)	O	N	Department of Commerce, Bureau of Lighthouses.
Washington, D. C. (Bureau of Standards laboratory).-----	FX	WWV		O	X	Department of Commerce, Bureau of Standards.
Wellesley, Mass. (first district reserve unit).-----	FX	NDA		O	X	U. S. Navy.
West Point, N. Y.-----	FX	WUW	275 (1,090)	O	Y	U. S. Army.
Wheeler Field, Hawaii (Oahu).-----	FA, FX	WYX	185 (1,620), 200 (1,500)	O	Y	Do.

RADIO STATIONS OF THE UNITED STATES

GOVERNMENT LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Wichita, Kans.....	FX	WEK	3,350 (89.6), 3,370 (89), 5,940 (50.51), 5,960 (50.34).....	O	N	Department of Commerce, Bureau of Lighthouses.
Wilmington, Del. (fourth naval district reserve unit).....	FX	NDC	.....	O	X	U. S. Navy.
Winnetka, Ill. (ninth district reserve unit).....	FX	NDS	.....	O	X	Do.
Winter Park, Fla. (seventh district reserve unit).....	FX	NDL	.....	O	X	Do.
Winter Quarter Shoals Lightship, Va.....	FC	WRO	375 (800), 410 (730), 500 (600).....	O <sup>1</sup>	(?)	Department of Commerce, Bureau of Lighthouses.
Wiseman, Alaska.....	FX	WXG	545 (550).....	PR	Y	U. S. Army.
Woods Hole, Mass. (section base 18).....	FC	NGF	.....	O	.....	U. S. Coast Guard.
Wrangell, Alaska.....	FX	WTG	258 (1,163).....	PR	Y	U. S. Army.
Yuma, Ariz.....	FA, FX	WUQ	200 (1,500), 220 (1,364).....	O	Y	Do.
Zamboanga, P. I. (Pettit Barracks).....	FX	WLX	4,305 (69.7), 8,610 (34.84).....	O	Y	Do.
PORTABLE						
Atlantic coast.....	FX	WSP	2,000 (150) to 2,256 (133).....	O	X	Department of Commerce, Coast and Geodetic Survey.
Do.....	FX	WSQ	do.....	O	X	Do.
Do.....	FX	WSK	do.....	O	X	Do.
Pacific coast.....	FX	KVB	.....	O	X	Do.
Do.....	FX	KVD	.....	O	X	Do.
Do.....	FX	KVE	.....	O	X	Do.
Do.....	FX	KVH	.....	O	X	Do.
Do.....	FX	KVJ	.....	O	X	Do.
Do.....	FX	KVK	.....	O	X	Do.
Pittsburgh, Pa.....	FX	WWY	Variable.....	FX	X	Department of Commerce, Bureau of Mines.
Radio test car No. 1.....	FX	WVA	.....	O	X	Department of Commerce, Radio Division.

- 1 Open to relaying public correspondence in emergencies.
- 2 First 15 minutes every hour between 8 a. m. and 9.15 p. m.
- 3 Transmits weather at 0130, 0430, 1330, 1730, and 2130 G. C. T.
- 4 Transmits time signals, 1655 to 1700 G. C. T.
- 5 8 p. m. to 8 a. m.
- 6 Transmits time signals, 0355 to 0400, 1755 to 1800 G. C. T.
- 7 Transmits hydrographic warnings, 1000, 1800 G. C. T.
- 8 First 15 minutes every hour between 8 a. m. and 9.15 p. m. and first 15 minutes every hour between 10 p. m. and 6 a. m.
- 9 Transmits hydrographic warnings and ice reports (in season), 1600, 2200, G. C. T.
- 10 Transmits weather, 0000, 0500, 1700 G. C. T.
- 11 Transmits time signals, 0255 to 0300 G. C. T.
- 12 Transmits weather, 0430 G. C. T.
- 13 Transmits time, weather, and hydrographic warnings, 1355 to 1400 G. C. T.
- 14 Transmits weather and hydrographic warnings, 1530, 2300 G. C. T.
- 15 Transmits hydrographic warnings, 1000 G. C. T.
- 16 Transmits local weather, 0530, 2030 G. C. T.
- 17 4.30 a. m. to 8.30 p. m.
- 18 Transmits weather and hydrographic warnings, 0018, 0418, 0818, 1218, 1618, 2018 G. C. T.
- 19 9 a. m. to 4 p. m.
- 20 5 p. m. to 9 a. m.
- 21 Transmits weather and hydrographic warnings, 0400, 1615, 2200 G. C. T.
- 22 Transmits weather July 1 to Nov. 15, at 0115 G. C. T.
- 23 Transmits weather and hydrographic warnings, 0230, 0630, 1830, 2230 G. C. T.
- 24 Transmits time signals, 2355 to 2400 G. C. T.
- 25 Transmits weather, 1630, 2300 G. C. T.
- 26 Transmits weather, 0400, 1800 G. C. T.
- 27 First 15 minutes every hour between 8 a. m. and 10.15 p. m
- 28 Transmits weather, 1600 G. C. T.

- 29 Transmits time and hydrographic warnings, 1655 to 1700 G. C. T.
- 30 Transmits weather, hydrographic warnings, and ice reports (in season), 1530, 2130 G. C. T.
- 31 Transmits weather, 0130, 1330 G. C. T.
- 32 Transmits weather, hydrographic warnings, and ice reports (in season), 0900, 1600, 2100 G. C. T.
- 33 Interisland service only.
- 34 Transmits weather, 1645, 2300 G. C. T.
- 35 Transmits weather, 1545, 2200 G. C. T.
- 36 First 15 minutes every hour between 8 a. m. and 5 p. m.
- 37 Transmits weather, 0100, 0400, 1300 G. C. T.
- 38 Transmits weather, hydrographic warnings, 0300, 1700, 2100 G. C. T.
- 39 0700 to 1800 seventy-fifth meridian time.
- 40 7 a. m. to 6 p. m.
- 41 Transmits weather, 0430, 1630, 2200 G. C. T.
- 42 Transmits aviation weather, 0215, 1415 G. C. T.
- 43 Transmits marine weather, hydrographic warnings, 0330, 1530 G. C. T.
- 44 Transmits time signals, 0555 to 0600, 1955 to 2000 G. C. T.
- 45 Transmits weather (Bonita Channel), 0000, 0430, 0800, 1200, 1630, 2000 G. C. T.
- 46 Second 15 minutes every hour between 8 a. m. and 9.15 p. m.
- 47 Transmits Caribbean weather, July 1 to Nov. 15, 0045, 0400, 1600 G. C. T.
- 48 Transmits Caribbean weather, July 1 to Nov. 15, 0200 G. C. T.
- 49 Transmits weather, 1600, 2330 G. C. T.
- 50 Transmits marine weather, 0300, 1500 G. C. T.
- 51 Transmits time signals, 0255 to 0300, 0755 to 0800, 1655 to 1700 G. C. T.
- 52 Transmits hydrographic warnings, ice reports (in season), 0200, 1700 G. C. T.
- 53 Transmits aviation weather and upper air currents, 0115, 1315 G. C. T.
- 54 Transmits weather broadcast to Europe, 0400, 1600 G. C. T.
- 55 Transmits weather, 2045 G. C. T. (A-3 system).

# GOVERNMENT SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS

[All U. S. Navy ship stations are open to PG service; message accounts settled by owner]

Ship	Call signal	Owner	Ship	Call signal	Owner
AB-9.....	NISF	U. S. Coast Guard.	Bailey.....	Δ NADZ	U. S. Navy.
Abbot.....	NEZS	U. S. Navy.	Bainbridge.....	Δ NUQL	Do.
Accacia.....	WWDC	Department of Commerce, Bu- reau of Light- houses.	Balch.....	Δ NEDP	Do.
			Ballard.....	Δ NIGN	Do.
Active.....	NIXS	U. S. Coast Guard.	Baltimore.....	Δ NAFD	Do.
Acushnet.....	Δ NEZQ	Do.	Bancroft.....	Δ NAIJ	Do.
Agassiz.....	NIVL	Do.	Barker.....	Δ NUJK	Do.
Albany.....	NABT	U. S. Navy.	Barnard.....	Δ WYDG	U. S. Army.
Albatross II.....	WTDA	Department of Commerce, Bu- reau of Fisheries.	Barnes, Robert L. Δ	NAZZ	U. S. Navy.
			Barnett.....	Δ NUFN	Do.
			Barney.....	Δ NIQT	Do.
			Barry.....	Δ NUQP	Do.
			Basilan.....	Δ KZAF	Bureau of Com- merce and Indus- try (Philippine Insular Govern- ment)
Aldebaran.....	WYCU	U. S. Army.	Bayspring.....	NISZ	U. S. Navy.
Alden.....	NULK	U. S. Navy.	Beale.....	Δ NAFK	U. S. Coast Guard.
Alert.....	NIVT	U. S. Coast Guard.	Beaver.....	Δ NEQQ	U. S. Navy.
Algonquin.....	Δ NEXD	Do.	Belknap.....	Δ NEZZ	Do.
Algoma.....	NEVP	U. S. Navy.	Bell.....	Δ NATG	Do.
Allegheny.....	NACZ	Do.	Benham.....	Δ NEDQ	Do.
Allen.....	NEGN	Do.	Bernadou.....	Δ NESS	Do.
Altair.....	NURJ	Do.	Biddle.....	Δ NIQX	Do.
Alton.....	NAMV	Do.	Billingsley.....	Δ NUPQ	Do.
A. Mackenzie.....	WYCN	U. S. Army.	Birmingham.....	Δ NAFM	Do.
Amaranth.....	Δ WWDG	Department of Commerce, Bu- reau of Light- houses.	Bittern.....	Δ NIJR	Do.
			Black Hawk.....	Δ NAJD	Do.
Ammen.....	NABV	U. S. Coast Guard.	Blakeley.....	Δ NIQT	Do.
Ammunition Light- er No. 8.....	NEMP	U. S. Navy.	B. M. Harrod.....	WYCI	U. S. Army.
Anemone.....	WWCD	Department of Commerce, Bu- reau of Light- houses.	Bobolink.....	Δ NIJJ	U. S. Navy.
			Boggs.....	Δ NAMT	Do.
Annapolis.....	NABX	State of Penna. 1 *	Bonham.....	Δ NIXQ	U. S. Coast Guard.
Antares.....	NATB	U. S. Navy.	Boreas.....	Δ NALM	U. S. Navy.
Anthony.....	NEVS	Do.	Borie.....	Δ NULL	Do.
Antistam.....	NITL	U. S. Coast Guard.	Boutwell.....	Δ NIXX	U. S. Coast Guard.
Apache.....	NACB	Do.	Boxer.....	Δ NIQM	U. S. Navy. 2
Apo.....	KZDB	Bureau of Com- merce and Indus- try (Philippine Insular Govern- ment)	Branch.....	Δ NEML	Do.
			Brant.....	Δ NAFF	Do.
			Brant.....	WTDB	Department of Commerce, Bu- reau of Fisheries.
Aramis.....	NARP	U. S. Navy.	Brazos.....	Δ NIFK	U. S. Navy.
Arapho.....	NIDS	Do.	Breck.....	Δ NULZ	Do.
Arcata.....	NADD	U. S. Coast Guard.	Breckenridge.....	Δ NERZ	Do.
Arctic.....	NAFR	U. S. Navy.	Breese.....	Δ NESM	Do.
Argonne.....	NISX	Do.	Briarcliff.....	NEZB	U. S. Navy.
Arizona.....	Δ NACV	Do.	Bridge.....	NESE	Do.
Arkansas.....	Δ NACT	Do.	Bridgeport.....	NAPV	Do.
Aroostook.....	Δ NENR	Do.	Brooks.....	Δ NEZX	Do.
Asheville.....	NELV	Do.	Broome.....	Δ NEPP	Do.
Augusta.....	NIDP	Do.	Bruce.....	Δ NUPS	Do.
Aulick.....	Δ NERF	Do.	Buchanan.....	Δ NEQS	Do.
Ausburne, Charles Δ	NUPR	Do.	Bulmer.....	Δ NUPN	Do.
Avoce.....	NADP	Do.	Bureau of Light- houses (general call for all sta- tions).	WWLH	Department of Commerce, Bu- reau of Light- houses.
Aylwin.....	Δ NEDN	Do.	Burns.....	Δ NAFS	U. S. Navy. 3
Azalea.....	WWCE	Department of Commerce, Bu- reau of Light- houses.	Burnes, John Fran- cis.....	Δ NIGQ	Do.
			Burrows.....	Δ NAFF	U. S. Coast Guard.
Babbitt.....	NEPX	U. S. Navy.	Bush.....	Δ NETT	U. S. Navy.
Bache.....	NEND	Department of Commerce, Coast and Geodetic Survey.	Bushnell.....	Δ NEFS	Do.
			Bustamente.....	KZBH	Bureau of Com- merce and Indus- try (Philippine Insular Govern- ment).
Badger.....	NEPT	U. S. Navy.			
Badger, George E. Δ	NUJG	Do.			
Bagaduce.....	NAZP	Do.			
Bagley.....	Δ NIQS	Do.	Cahokia.....	NITV	U. S. Coast Guard.

\* See footnote to this table on p. 149.



## RADIO STATIONS OF THE UNITED STATES

## GOVERNMENT SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Ship	Call signal	Owner	Ship	Call signal	Owner
Cahoone.....	N1VJ	U. S. Coast Guard.	C G 164	NECM	U. S. Coast Guard.
Caldwell.....	N1DQ	U. S. Navy.	C G 165	NEFM	Do.
California.....	N1FT	Do.	C G 166	NABN	Do.
Calumet.....	N1ZL	U. S. Coast Guard.	C G 167	NALG	Do.
Carmden.....	N1PR	U. S. Navy.	C G 168	NALL	Do.
Cambrai.....	W1JA	U. S. Army.	C G 169	NANL	Do.
Canonius.....	N1RX	U. S. Navy.	C G 170	NAOQ	Do.
Capella.....	N1ZK	Do.	C G 171	NASF	Do.
Captain Clarence M. Condon.	WYBY	U. S. Army.	C G 172	NATN	Do.
Capt Edward P. Nones.	WYBP	Do.	C G 173	NAVQ	Do.
Captain James Foranance.	WYAM	Do.	C G 174	NAVQ	Do.
Carrabassett.....	NEVQ	U. S. Coast Guard.	C G 175	NAZY	Do.
Carrigan.....	N1VK	Do.	C G 176	NEBL	Do.
Cass.....	NUNK	U. S. Navy.	C G 177	NEBX	Do.
Case.....	NEDR	U. S. Coast Guard.	C G 178	NECF	Do.
C G 100.....	NAGN	Do.	C G 179	NABQ	Do.
C G 101.....	NAKT	Do.	C G 180	NALM	Do.
C G 102.....	NAPP	Do.	C G 181	NALN	Do.
C G 103.....	NARM	Do.	C G 182	NANM	Do.
C G 104.....	NABF	Do.	C G 183	NAQR	Do.
C G 105.....	NAGP	Do.	C G 184	NASK	Do.
C G 106.....	NAKZ	Do.	C G 185	NATP	Do.
C G 107.....	NAMQ	Do.	C G 186	NAXR	Do.
C G 108.....	NAPQ	Do.	C G 187	NABM	Do.
C G 109.....	NARN	Do.	C G 188	NECG	Do.
C G 110.....	NABG	Do.	C G 189	NARR	Do.
C G 111.....	NAGQ	Do.	C G 190	NAIN	Do.
C G 112.....	NABQ	Do.	C G 191	NALO	Do.
C G 113.....	NALB	Do.	C G 192	NAIN	Do.
C G 114.....	NAPX	Do.	C G 193	NANN	Do.
C G 115.....	NARQ	Do.	C G 194	NANS	Do.
C G 116.....	NATC	Do.	C G 195	NASL	Do.
C G 117.....	N1VJ	Do.	C G 196	NATV	Do.
C G 118.....	NAXD	Do.	C G 197	NATV	Do.
C G 119.....	N1ZI	Do.	C G 198	NABB	Do.
C G 120.....	N1ZJ	Do.	C G 199	NABO	Do.
C G 121.....	N1EB	Do.	C G 200	NABO	Do.
C G 122.....	N1BS	Do.	C G 201	NABO	Do.
C G 123.....	N1BU	Do.	C G 202	NABO	Do.
C G 124.....	N1BR	Do.	C G 203	NABO	Do.
C G 125.....	N1LD	Do.	C G 204	NABO	Do.
C G 126.....	N1RT	Do.	C G 205	NABO	Do.
C G 127.....	N1AT	Do.	C G 206	NABO	Do.
C G 128.....	N1TD	Do.	C G 207	NABO	Do.
C G 129.....	N1VK	Do.	C G 208	NABO	Do.
C G 130.....	N1XF	Do.	C G 209	NABO	Do.
C G 131.....	N1ZN	Do.	C G 210	NABO	Do.
C G 132.....	N1BK	Do.	C G 211	NABO	Do.
C G 133.....	N1CT	Do.	C G 212	NABO	Do.
C G 134.....	N1LF	Do.	C G 213	NABO	Do.
C G 135.....	N1NG	Do.	C G 214	NABO	Do.
C G 136.....	N1RV	Do.	C G 215	NABO	Do.
C G 137.....	N1TF	Do.	C G 216	NABO	Do.
C G 138.....	N1VL	Do.	C G 217	NABO	Do.
C G 139.....	N1XG	Do.	C G 218	NABO	Do.
C G 140.....	N1ZR	Do.	C G 219	NABO	Do.
C G 141.....	N1BL	Do.	C G 220	NABO	Do.
C G 142.....	N1AG	Do.	C G 221	NABO	Do.
C G 143.....	N1GL	Do.	C G 222	NABO	Do.
C G 144.....	N1NI	Do.	C G 223	NABO	Do.
C G 145.....	N1QB	Do.	C G 224	NABO	Do.
C G 146.....	N1XN	Do.	C G 225	NABO	Do.
C G 147.....	N1TK	Do.	C G 226	NABO	Do.
C G 148.....	N1BK	Do.	C G 227	NABO	Do.
C G 149.....	N1XN	Do.	C G 228	NABO	Do.
C G 150.....	N1XN	Do.	C G 229	NABO	Do.
C G 151.....	N1FM	Do.	C G 230	NABO	Do.
C G 152.....	N1LF	Do.	C G 231	NABO	Do.
C G 153.....	N1VK	Do.	C G 232	NABO	Do.
C G 154.....	N1QP	Do.	C G 233	NABO	Do.
C G 155.....	N1SB	Do.	C G 234	NABO	Do.
C G 156.....	N1VB	Do.	C G 235	NABO	Do.
C G 157.....	N1VP	Do.	C G 236	NABO	Do.
C G 158.....	N1XP	Do.	C G 237	NABO	Do.
C G 159.....	N1ZT	Do.	C G 238	NABO	Do.
C G 160.....	N1BK	Do.	C G 239	NABO	Do.
C G 161.....	N1BT	Do.	C G 240	NABO	Do.
C G 162.....	NECC	Do.	C G 241	NABO	Do.
C G 163.....	N1ZK	Do.	C G 242	NABO	Do.
			C G 243	NABO	Do.
			C G 244	NABO	Do.
			C G 245	NABO	Do.
			C G 246	NABO	Do.
			C G 247	NABO	Do.
			C G 248	NABO	Do.

GOVERNMENT SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Ship	Call signal	Owner	Ship	Call signal	Owner
C. G. 249	NAMJ	U. S. Coast Guard.	Cleveland	NAGV	U. S. Navy.
C. G. 250	NARD	Do.	Coghlan	NUPK	Do.
C. G. 251	NAVQ	Do.	Cole	NEST	Do.
C. G. 252	NAVZ	Do.	Colhoun	NAJL	Do.
C. G. 253	NAZF	Do.	Colonel George Ar-	WYAG	U. S. Army.
C. G. 254	NADC	Do.	mistead.		
C. G. 255	NAKM	Do.	Colonel George F.	WYBE	Do.
C. G. 256	NAMK	Do.	E. Harrison.		
C. G. 257	NAPC	Do.	Colorado	NECR	U. S. Navy.
C. G. 258	NABJ	Do.	Commanche	NIDG	U. S. Coast Guard
C. G. 259	NAST	Do.	Commodore	NENB	U. S. Navy.
C. G. 260	NAVF	Do.	Concord	NIRV	Do.
C. G. 261	NAXB	Do.	Connor	NIDR	Do.
C. G. 262	NAZG	Do.	Contocook	NELR	Do.
C. G. 263	NEBF	Do.	Converse	NAPM	Do.
C. G. 264	NEBR	Do.	Conyngnam	NEGP	U. S. Coast Guard.
C. G. 265	NADR	Do.	Cormorant	NIKV	U. S. Navy.
C. G. 266	NAKQ	Do.	Corregidor	KZAQ	Bureau of Com-
C. G. 267	NAML	Do.			merce and Indus-
C. G. 268	NAPD	Do.			try (Philippine
C. G. 269	NARK	Do.			Insular Govern-
C. G. 270	NASZ	Do.			ment).
C. G. 271	NAVQ	Do.	Corry	NUQZ	U. S. Navy.
C. G. 272	NANC	Do.	Corwin	NEGB	U. S. Coast Guard.
C. G. 273	NARL	Do.	Corwin	WTDC	Department of
C. G. 274	NAPF	Do.			Commerce, Bu-
C. G. 275	NAMN	Do.			reau of Fisheries.
C. G. 276	NAKR	Do.	Cowell	NETV	U. S. Navy.
C. G. 277	NADS	Do.	Crane	NIFB	Do.
C. G. 278	NACM	Do.	Craneship No. 1	NEDZ	Do.
C. G. 279	NAGF	Do.	Craven	NERJ	Do.
C. G. 280	NECL	Do.	Crawford	NIVN	U. S. Coast Guard.
C. G. 281	NADM	Do.	Crosby	NESZ	U. S. Navy.
C. G. 282	NEGG	Do.	Crowninshield	NADF	Do.
C. G. 283	NEQN	Do.	Cuba	WYCA	U. S. Army.
C. G. 284	NISD	Do.	Culebra	WYCL	Do.
C. G. 285	NOCK	Do.	Cummings	NEDT	U. S. Coast Guard.
C. G. 286	NACX	Do.	Cushing	NEDV	U. S. Navy.
C. G. 287	NAGJ	Do.	Cuyahoga	NITM	U. S. Coast Guard.
C. G. 288	NECP	Do.	Cuyama	NEHP	U. S. Navy.
C. G. 289	NEQR	Do.	Cygan	NICP	U. S. Coast Guard.
C. G. 290	NADQ	Do.	Cypress	WWCT	Department of
C. G. 291	NAPJ	Do.			Commerce, Bu-
C. G. 292	NEGL	Do.			reau of Light-
C. G. 293	NADG	Do.			houses.
C. G. 294	NAQG	Do.	Dahlgren	NIRD	U. S. Navy.
C. G. 295	NEQV	Do.	Dale	NUND	Do.
C. G. 296	NIVG	Do.	Dallas	NENM	Do.
C. G. 297	NOCP	Do.	Dallas	NEFG	U. S. Coast Guard.
C. G. 298	NAFG	Do.	Dan C. Kingman	WYCP	U. S. Army.
C. G. 299	NAQK	Do.	Davis	NEGR	U. S. Coast Guard.
C. G. 300	NECQ	Do.	Decatur	NUQV	U. S. Navy.
C. G. 301	NADJ	Do.	Dellwood	WUAJ	U. S. Army.
C. G. 302	NAFN	Do.	Denebola	NIRZ	U. S. Navy.
Cedar	WVDO	Department of	Dent	NEGF	Do.
		Commerce Bu-	Denver	NAJV	Do.
		reau of Light-	Des Moines	NAKD	Do.
		houses.	Detroit	NISP	Do.
Challenge	NEKS	U. S. Navy.	Dexter	NEQG	U. S. Coast Guard.
Champlain	NAFJ	U. S. Coast Guard.	Dickerson	NAFC	U. S. Navy.
Champlin	NEKQ	U. S. Navy.	Diligence	NIXJ	U. S. Coast Guard.
Chandler	NAFL	Do.	Discoverer	NIJT	U. S. Coast and
Charleston	NAKV	Do.			Geodetic Survey.
Charlotte	NEPK	Do.	Dix	NIVC	U. S. Coast Guard.
Chase	NUMK	Do.	Dobbin	NUNR	U. S. Navy.
Chateau Thierry	WUAF	U. S. Army.	Dorothy	NURN	Bureau of Fisher-
Chattanooga	NANV	U. S. Navy.			ies.
Chaumont	NISV	Do.	Dorsey	NELG	U. S. Navy.
Chelan	NACD	U. S. Coast Guard.	Downes	NEDX	U. S. Coast Guard
Chemung	NARG	U. S. Navy.	Doyen	NUJS	U. S. Navy.
Chester	NAFV	Do.	Drayton	NAKN	Do.
Chew	NEMZ	Do.	Drayton	NAFK	Do.
Chewink	NIVJ	Do.	Dubaque	NAKP	Do.
Cheyenne	NAGD	Do.	Duncan	NEFB	Do.
Chicago	NAGM	Do.	Dupont	NIRF	Do.
Childs	NULN	Do.	Dyer	NACN	Do.
Cincinnati	NISN	Do.	Eagle	NIGZ	U. S. Coast Guard.
Clarinda	NUFZ	Do.	Eagle 1	NEJB	U. S. Navy.
Claxton	NEQZ	Do.	Eagle 2	NEJC	Do.
Clemson	NEZT	Do.	Eagle 3	NEJD	Do.

GOVERNMENT SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Ship	Call signal	Owner	Ship	Call signal	Owner
Eagle 4	NEJF	U. S. Navy.	Fathomer	NESR	Department of Commerce, Coast and Geodetic Survey.
Eagle 5	NEJG	Do.	Fauce	NIVV	U. S. Coast Guard.
Eagle 6	NEJH	Do.	Favorite	KDNY	U. S. Navy.
Eagle 7	NEJK	Do.	Fern	WWDN	Department of Commerce, Bureau of Light-houses.
Eagle 8	NEJL	Do.	F. H. Hilliard	WYCM	U. S. Army.
Eagle 9	NEJM	Do.	Finch	NAJP	U. S. Navy.
Eagle 10	NEJN	Do.	Florence	NIZC	U. S. Coast Guard.
Eagle 11	NEJP	Do.	Florida	NAMB	U. S. Navy.
Eagle 12	NEJQ	Do.	Flusser	NUNF	Do.
Eagle 13	NEJR	Do.	Foote	NIRJ	Do.
Eagle 14	NEJS	Do.	Ford, John D.	NUQJ	Do.
Eagle 15	NEJT	Do.	Fort Chartres	WYDE	U. S. Army.
Eagle 18	NEJZ	Do.	Fort Gage	WYDD	Do.
Eagle 19	NEKB	Do.	Fort Gage	NIDG	U. S. Coast Guard.
Eagle 22	NEKF	Do.	Forward	NIRQ	U. S. Navy.
Eagle 23	NEKG	Do.	Fox	NIRV	Do.
Eagle 24	NEKJ	Do.	Frederick	NEGV	Do.
Eagle 26	NEKF	Do.	Frederic Lee	NIVZ	U. S. Coast Guard.
Eagle 27	NEKG	Do.	Fulton	NEDD	U. S. Navy.
Eagle 28	NEXM	Do.	Gallatin	NIQG	U. S. Coast Guard.
Eagle 29	NEYN	Do.	Galveston	NANF	U. S. Navy.
Eagle 32	NEZJ	Do.	Gamble	NEZR	Do.
Eagle 33	NIBB	Do.	Gamma	WYCE	U. S. Army.
Eagle 34	NIBD	Do.	Gannet	NIJX	U. S. Navy.
Eagle 35	NIBG	Do.	General Absalom Baird	WYBA	U. S. Army.
Eagle 36	NIBK	Do.	General Alava	NAMG	U. S. Navy.
Eagle 37	NIBM	Do.	General Edward C. C. Ord	WYAF	U. S. Army.
Eagle 38	NIBN	Do.	General George H. Weeks	WYAI	Do.
Eagle 39	NIBC	Do.	General Greene	NIXL	U. S. Coast Guard.
Eagle 40	NIBF	Do.	General G. W. Getty	WYAK	U. S. Army.
Eagle 41	NIBJ	Do.	General J. Franklin Bell	WYBB	Do.
Eagle 42	NIBL	Do.	General John M. Schofield	WYAB	Do.
Eagle 43	NIBP	Do.	General Mifflin	WYAT	Do.
Eagle 44	NIBQ	Do.	General Richard Arnold	WYAY	Do.
Eagle 45	NIBR	Do.	General R. N. Batchelder	WYAR	Do.
Eagle 46	NIBS	Do.	General Robert Anderson	WYAH	Do.
Eagle 47	NIBT	Do.	General Royal T. Frank	WYAA	Do.
Eagle 48	NIBV	Do.	General William M. Graham	WYBD	Do.
Eagle 49	NIBX	Do.	Genessee	NEKD	U. S. Navy.
Eagle 50	NIBZ	Do.	Gillis	NERR	Do.
Eagle 51	NICB	Do.	Gilmer	NERR	Do.
Eagle 52	NICC	Do.	Golf	NUQF	Do.
Eagle 53	NICD	Do.	Goldsborough	NAPT	Do.
Eagle 54	NICF	Do.	Gold Star	NASJ	Do.
Eagle 55	NICG	Do.	Gouverneur	WYDH	Do.
Eagle 56	NICJ	Do.	Grant	WUAG	Do.
Eagle 57	NICK	Do.	Grebe	NIKX	U. S. Navy.
Eagle 58	NICL	Do.	Greene	NIGM	Do.
Eagle 59	NICM	Do.	Greer	NERT	Do.
Eagle 60	NICN	Do.	Gregory	NAJR	Do.
Ed. J. Howard	WYDF	U. S. Army.	Gresham	NEZC	U. S. Coast Guard.
Edsall	NUPM	U. S. Navy.	Gridley	NEMX	U. S. Navy.
Edwards	NIGL	Do.	Griffith	WYCZ	U. S. Army.
Edwards, John D.	NUPC	Do.	Guam	NECS	U. S. Navy.
Eider	NIKR	Department of Commerce, Bureau of Fisheries.	Guide	NIJN	Department of Commerce, Coast and Geodetic Survey.
Eider	WTDD	Do.	Gwin	NAGX	Do.
Eleano	NAKS	U. S. Navy.	11-2	NIFF	Do.
Elliott	NERV	Do.	11-3	NERF	Do.
Ellis	NIFD	Do.	11-4	NEQM	Do.
Elsie	NICM	Department of Commerce, Coast and Geodetic Survey.	11-5	NETG	Do.
Ericsson	NEFD	U. S. Coast Guard.			
Essex	NEPN	U. S. Navy.			
Evans	NEMS	Do.			
Ewing	NIXM	U. S. Coast Guard.			
Explorer	NAVM	Department of Commerce, Coast and Geodetic Survey.			
Fairfax	NIJC	U. S. Navy.			
Falcon	NEKN	Do.			
Fanning	NALS	U. S. Coast Guard.			
Farenholt	NEMQ	U. S. Navy.			
Farquhar	NANZ	Do.			
Farragut	NIQR	Do.			

## GOVERNMENT SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Ship	Call signal	Owner	Ship	Call signal	Owner
H-6.....	NEFC	Department of Commerce Coast and Geodetic Survey.	James, Reuben.....	△ NUNT	U. S. Navy.
H-7.....	NESJ	Do.	Jarvis.....	△ NEDK	Do.
H-8.....	NELN	Do.	Jason.....	△ NEQB	Do.
H-9.....	NEBV	Do.	Jenkins.....	△ NEDL	Do.
Haida.....	NITF	U. S. Coast Guard.	John Ewens.....	△ WYCK	U. S. Army.
Hale.....	△ NACL	U. S. Navy.	Jones, Jacob.....	△ NEFZ	U. S. Navy.
Hamilton.....	△ NIFL	Do.	Jones, Paul.....	△ NUQN	Do.
Hamilton, Alexander.....	NIVS	U. S. Coast Guard.	Jones, William.....	△ NARR	Do.
Hamilton, Paul.....	△ NAQN	U. S. Navy.	Joseph Henry.....	△ WYAC	U. S. Army.
Hannibal.....	NAQV	Do.	Jouett.....	△ NEDM	U. S. Coast Guard.
Haraden.....	△ NEXZ	Do.	Jupiter.....	△ WYCG	U. S. Army.
Harding.....	△ NEMV	Do.	K-1.....	NEPP	U. S. Navy.
Harriet Lane.....	NIXR	U. S. Coast Guard.	K-2.....	NELD	Do.
Hart.....	△ NENV	U. S. Navy.	K-3.....	NELF	Do.
Hatfield.....	△ NEZV	Do.	K-4.....	NELM	Do.
Hawk.....	NAPS	Do.	K-5.....	NELP	Do.
Hazelwood.....	△ NENS	Do.	K-6.....	NELQ	Do.
Heather.....	WWDQ	Department of Commerce, Bureau of Light-houses.	K-7.....	NELS	Do.
Helena.....	NASC	U. S. Navy.	K-8.....	NELT	Do.
Helianthus.....	NIZN	Department of Commerce, Coast and Geodetic Survey.	Kalk.....	NIQD	Do.
Henderson.....	NESD	U. S. Navy.	Kalmia.....	NAZS	Do.
Henley.....	NASD	U. S. Coast Guard.	Kanawha.....	NEQD	Do.
Henry Flad.....	WYCH	U. S. Army.	Kane.....	△ NULM	Do.
Henshaw.....	△ NUJQ	U. S. Navy.	Kappa.....	△ WYCG	U. S. Army.
Herbert.....	△ NEMJ	Do.	Kawah.....	△ NUGK	U. S. Navy.
Herndon.....	△ NENJ	Do.	Kennedy.....	△ NAZN	Do.
Heron.....	NENL	Do.	Keunison.....	△ NEQX	Do.
Hibiscus.....	△ WWCA	Department of Commerce, Bureau of Light-houses.	Kenowis.....	△ WUAK	U. S. Army.
Hogan.....	△ NEXX	U. S. Navy.	Keosauqua.....	NEXC	U. S. Navy.
Holland.....	NIRM	Do.	Kewadin.....	NAXN	Do.
Hopewell.....	△ NEXX	Do.	Kickapoo.....	NITX	U. S. Coast Guard.
Hopkins.....	△ NUQM	Do.	Kidder.....	△ NUJX	U. S. Navy.
Houston.....	NIQF	Do.	Kilkenny.....	WRCX	Department of Commerce, Bureau of Navigation.
Hovey.....	△ NEPB	Do.	Kilty.....	△ NAKX	U. S. Navy.
Howard.....	△ NIFM	Do.	Kimball.....	NIXN	U. S. Coast Guard.
H. S. Taber.....	WYCW	U. S. Army.	Kimberly.....	△ NADL	U. S. Navy.
Hudson.....	NIZK	U. S. Coast Guard.	King.....	△ NULP	Do.
Hulbert.....	△ NUKD	U. S. Navy.	Kingfisher.....	△ NALP	Do.
Hull.....	△ NUQT	Do.	Kittery.....	NECX	Do.
Humphreys.....	△ NUKX	Do.	Kittiwake.....	WTDG	Department of Commerce, Bureau of Fisheries.
Hunt.....	△ NUJF	Do.	Koka.....	NETZ	U. S. Navy.
Huntington.....	NIRK	Do.	Kukui.....	△ WWDX	Department of Commerce, Bureau of Light-houses.
Huron.....	△ NIDV	Do.	L-2.....	NELZ	U. S. Navy.
Hyacinth.....	△ WWDK	Department of Commerce, Bureau of Light-houses.	L-3.....	NEKK	Do.
Idaho.....	△ NAVX	U. S. Navy.	L-9.....	NEGS	Do.
Ilex.....	WWCB	Department of Commerce, Bureau of Light-houses.	L-11.....	NEFF	Do.
Inca.....	NESN	U. S. Navy.	Lamberton.....	△ NAZL	Do.
Ingraham.....	△ NENX	Do.	Lamson.....	△ NUNC	Do.
Ingram, Osmund.....	△ NIGF	Do.	Langley.....	△ NEQC	Do.
Inspector International Ice Patrol. <sup>3</sup>	WYCB	U. S. Army.	Lansdale.....	△ NERL	Do.
International Ice Patrol. <sup>3</sup>	NIDK	U. S. Coast Guard.	Lapwing.....	NALC	Do.
Iota.....	WYCF	U. S. Army.	Laramie.....	NUGL	Do.
Isabel.....	NASG	U. S. Navy.	Lardner.....	△ NUPF	Do.
Islerwood.....	△ UNV	Do.	Lark.....	NIJK	Do.
Israel.....	△ NENG	Do.	Larkspur.....	△ WWCI	Department of Commerce, Bureau of Light-houses.
Iuka.....	NEVR	Do.	Laub.....	△ NIGJ	U. S. Navy.
Ivy.....	△ WWCW	Department of Commerce, Bureau of Light-houses.	La Vallette.....	△ NUJT	Do.
Jackson.....	NIXC	U. S. Coast Guard.	Lawrence.....	△ NUQQ	Do.
			Lea.....	△ NETF	Do.
			Leary.....	△ NAFL	Do.
			Legare.....	NITN	U. S. Coast Guard.
			Lexington.....	△ NIKM	U. S. Navy.
			Litchfield.....	△ NUMM	Do.
			Little.....	△ NEZM	Do.
			Long, J. D.....	△ NEPD	Do.
			Lotus.....	WWCF	Department of Commerce, Bureau of Light-houses.



GOVERNMENT SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Ship	Call signal	Owner	Ship	Call signal	Owner
Louisville.....Δ	NIFT	U. S. Navy.	Meigs.....Δ	WUAC	U. S. Army.
Lt. Col. Herman C. Schumm.	WYBS	U. S. Army.	Melville.....	NEFX	U. S. Navy.
Luce.....Δ	NEGD	U. S. Navy.	Melvin.....Δ	NURC	Do.
Ludlow.....Δ	NENZ	Do.	Memphis.....Δ	NISS	Do.
Lupine.....Δ	WWDU	Department of Commerce, Bureau of Light-houses.	Mendota.....Δ	NATM	Do.
			Mendota.....Δ	NAGK	U. S. Coast Guard.
			Mercy.....	NEKM	U. S. Navy.
			Meredith.....Δ	NETS	Do.
			Merritt.....	WUAH	U. S. Army.
Luzon.....Δ	NEGJ	U. S. Navy.	Mervine.....Δ	NUMJ	U. S. Navy.
Lydonia.....Δ	NAJT	Coast and Geodetic Survey.	Meyer.....Δ	NURJ	Do.
			Mikawe.....	NIZQ	Department of Commerce, Coast and Geodetic Survey.
Lykens.....	NALK	U. S. Navy.			
Macdonough.....Δ	NUQR	Do.	Miley.....	WYAJ	U. S. Army.
Mackenzie.....Δ	NEVX	Do.	Milwaukee.....Δ	NISM	U. S. Navy.
Mackinac.....	NUGD	U. S. Coast Guard.	Mindanao.....	NEPC	Do.
Macleish.....Δ	NUPT	U. S. Navy.	Mindoro.....	KZAR	Bureau of Customs (Philippine Insular Government).
Maddox.....Δ	NETX	Do.			
Magnolia.....Δ	WWCY	Department of Commerce, Bureau of Light-houses.			
Mahan.....Δ	NEQK	U. S. Navy.	Mississippi.....Δ	WYCT	War Department, Mississippi River Commission.
Mahoning.....	NOCG	U. S. Coast Guard.			
Mahopac.....	NETD	U. S. Navy.	Mississippi.....	NEKT	U. S. Navy.
Major Albert G. Jenkins.	WYBV	U. S. Army.	Missoula.....	NEKR	U. S. Navy.
Major Evan Thomas.	WYAO	Do.	Mitchell.....	NIZR	Department of Commerce, Coast and Geodetic Survey.
Major William P. Pence, Jr.	WYBW	Do.			
Mallard.....	NIKB	U. S. Navy.	Modoc.....Δ	NIVD	U. S. Coast Guard.
Mangrove.....Δ	WWCU	Department of Commerce, Bureau of Light-houses.	Mohawk.....	NUFB	U. S. Navy.
			Mojave.....	NIXB	U. S. Coast Guard.
			Monaghan.....	NEKP	Do.
			Monrocy.....	NETN	U. S. Navy.
			Montcalm.....	NEQF	Do.
Manhattan.....	NEKZ	U. S. Coast Guard.	Montgomery.....Δ	NAXJ	Do.
Manley.....Δ	NIDP	U. S. Navy.	Montgomery.....	NITT	U. S. Coast Guard.
Manning.....Δ	NEZG	U. S. Coast Guard.	Moody.....Δ	NULT	U. S. Navy.
Manzanita.....Δ	WWDR	Department of Commerce, Bureau of Light-houses.	Morgan-Lewis.....	WYCR	U. S. Army.
			Morris.....Δ	NIVB	U. S. Coast Guard.
			Murphy.....Δ	NITS	U. S. Navy.
			Musford.....Δ	NEXR	Do.
Maple.....	WWCN	Do.	Mullaney.....Δ	NUML	Do.
Marblehead.....Δ	NIRK	U. S. Navy.	Murray.....Δ	NAXK	Do.
Mareus.....Δ	NUMG	Do.	N-1.....	NEDS	Do.
Marigold.....Δ	WWDH	Department of Commerce, Bureau of Light-houses.	N-2.....	NAJJ	Do.
			N-3.....	NAKK	Do.
			Nansemond.....	NOGQ	U. S. Coast Guard.
			Nantucket.....	NAMS	U. S. Navy. <sup>6</sup>
Marindin.....	NIZP	Coast and Geodetic Survey.	Napa.....	NEVC	Do.
			Narragansett.....	NEKL	Do.
			Natoma.....	NUGG	Department of Commerce, Coast and Geodetic Survey.
Marinduque.....	NIGV	Do.			
Marion.....	NITB	U. S. Coast Guard.			
Maryland.....Δ	NARC	U. S. Navy.			
Mascoutin.....	NIVP	U. S. Coast Guard.			
Mason.....Δ	NAGG	U. S. Navy.			
Mattole.....	NUMG	Do.	Naugatuck.....	NITG	U. S. Coast Guard.
Maurice.....	NEQL	Do.	Navajo.....	NEMR	U. S. Navy.
Maury.....Δ	NEPG	Do.	Naval ship stations (any or all).	NERK	Do.
Mayflower.....	WWCP	Department of Commerce, Bureau of Light-houses.	Navigator.....	NECD	Do.
			Neches.....	NIFP	Do.
			Nemaha.....	NITK	U. S. Coast Guard.
			Neptune.....	NPEM	U. S. Navy.
			Nereus.....	NEQP	Do.
Mayrant.....	NEGX	U. S. Navy.	Nevada.....Δ	NADK	Do.
McCall.....	NEJV	U. S. Coast Guard.	New Mexico.....Δ	NEVN	Do.
McCalla.....Δ	NIGC	U. S. Navy.	New Orleans.....	NENP	Do.
McCawley.....	NULS	Do.	Newport.....	NENQ	Do. <sup>7</sup>
McCook.....Δ	NIGB	Do.	New York.....Δ	NADT	Do.
McCormick.....Δ	NUPZ	Do.	Niagara.....	NABC	Do.
McDermut.....Δ	NIGG	Do.	Nicholson.....Δ	NEFR	Do.
McDougal.....Δ	NEFP	U. S. Coast Guard.	Nitro.....	NELL	Do.
McFarland.....Δ	NETB	U. S. Navy.	Noa.....Δ	NUKF	Do.
McKean.....Δ	NEMT	Do.	Nokomis.....	NAMM	Do.
McKee.....Δ	NACQ	Do.	Northampton.....	NEFX	Do.
McLanahan.....Δ	NIGK	Do.	North Dakota.....	NEPL	Do.
McLane.....	NIVF	U. S. Coast Guard.	Northland.....Δ	NISC	U. S. Coast Guard.
Meade.....Δ	NEBJ	U. S. Navy.	O-1.....	NEXJ	U. S. Navy.
Medusa.....	NEMC	Do.			

## GOVERNMENT SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Ship	Call signal	Owner	Ship	Call signal	Owner
O-2	NETJ	U. S. Navy.	Pinola	NEVL	U. S. Navy.
O-3	NAMR	Do.	Pioneer	NIJL	Department of Commerce, Coast and Geodetic Survey.
O-4	NAMX	Do.			
O-6	NANB	Do.			
O-7	NANC	Do.			
O-8	NAND	Do.	Piscataqua	NAQC	U. S. Navy.
O-9	NAGB	Do.	Pittsburgh	NETC	Do.
O-10	NAXT	Do.	Polillo	KZCH	Bureau of Commerce and Industry (Philippine Insular Government.)
O-11	NETK	Do.			
O-12	NETL	Do.			
O-13	NEZN	Do.			
O-14	NEVD	Do.			
O-15	NAXS	Do.	Pontchartrain	NABP	U. S. Coast Guard.
O-16	NASM	Do.	Pope	NUQB	U. S. Navy.
Oahu	NEFN	Do.	Porpoise	NAQM	Do.
O'Bannon	NEXS	Do.	Porter	NESQ	U. S. Coast Guard.
O'Brien	NEFV	Do.	Preble	NUNG	U. S. Navy.
Ogden	NIZS	Do.	President	NURL	Post Office Department.
		Department of Commerce, Coast and Geodetic Survey.	Preston	NUNJ	U. S. Navy.
			Preston, William B.	NUMQ	Do.
Oglala	NEPJ	U. S. Navy.	Privateer	NUDF	Do.
Oklahoma	NADN	Do.	Procyon	NURF	Do.
Old Constellation	NEPR	Do.	Prometheus	NETP	Do.
Olympia	NANT	Do.	Proteus	NERC	Do.
Omaha	NI SL	Do.	Pruitt	NUPV	Do.
Omega	WYCV	U. S. Army.	Pueblo	NAJS	Do.
Ontario	NIDX	U. S. Navy.	Putlaski	NIXV	U. S. Coast Guard.
Orchid	WWCO	Do.	Putnam	NUPG	U. S. Navy.
		Department of Commerce, Bureau of Light-houses.	Pyro	NELK	Do.
			Quail	NIKQ	Do.
Orion	NEVM	U. S. Navy.	R-1	NILC	Do.
Orion	NERN	Do.	R-2	NILD	Do.
Ortolan	NIKC	Do.	R-3	NILF	Do.
Osborne	NUQC	Do.	R-4	NILG	Do.
Osprey	NIZF	U. S. Coast Guard.	R-5	NILJ	Do.
Ossipee	NEZD	Do.	R-6	NILK	Do.
Overton	NUJN	U. S. Navy	R-7	NILM	Do.
Owl	NACS	Do.	R-8	NILN	Do.
Paducah	NESC	Do.	R-9	NILP	Do.
Palmer	NECV	Do.	R-10	NILQ	Do.
Palos	NETR	Do.	R-11	NILR	Do.
Pamlico	NEZK	U. S. Coast Guard.	R-12	NILS	Do.
Pampanga	NEVF	U. S. Navy.	R-13	NILT	Do.
Panay	NEDB	Do.	R-14	NISV	Do.
Parker	NEFZ	Do.	R-15	NASV	Do.
Parrott	NUPD	Do.	R-16	NASX	Do.
Partridge	NIJG	Do.	R-17	NAFX	Do.
Patapsco	NESL	Do.	R-18	NEGC	Do.
Pathfinder	NENC	Do.	R-19	NEGK	Do.
		Department of Commerce, Coast and Geodetic Survey.	R-20	NARZ	Do.
			R-21	NILV	Do.
Patoka	NUGN	U. S. Navy.	R-22	NILX	Do.
Patriot	NOVG	U. S. Coast Guard.	R-23	NILZ	Do.
Patrol	NIVX	Do.	R-24	NIMB	Do.
Patterson	NEGJ	Do.	R-25	NIMC	Do.
Paulding	NEP	Do.	R-26	NIMD	Do.
Paulding, James K.	NUJM	U. S. Navy.	R-27	NIME	Do.
Pawtucket	NIQB	Do.	Radford	NEXB	Do.
Peacock	KDKY	Do. <sup>s</sup>	Rail	NAQJ	Do.
Peary	NUQD	Do.	Raleigh	NIRT	Do.
Pecos	NIFQ	Do.	Ramapo	NUGP	Do.
Pelican	NEFK	Do.	Ramsay	NIFC	Do.
Penacook	NEMM	Do.	Ranger	NUDG	Do.
Penguin	NECT	Do.			Department of Commerce, Coast and Geodetic Survey.
Pennsylvania	NADX	Do.	Rapidan	NUGQ	U. S. Navy.
Pensacola	NESB	Do.	Rappahannock	NEGT	Do.
Pequot	NI SJ	Do.	Raritan	NIZG	U. S. Coast Guard.
Percival	NUPJ	U. S. Coast Guard.	Rathburne	NACR	U. S. Navy.
Perkins	NETM	U. S. Navy.	Redwing	NIKO	U. S. Coast Guard.
Perry	NEYM	Do.	Regulus	NASQ	U. S. Navy.
Perry	NUQS	Do.	Reid	NUNK	Do.
Petrel	NUCG	U. S. Coast Guard.	Reliance	NIXF	U. S. Coast Guard.
Philip	NEDG	Do.	Relief	NEPQ	U. S. Navy.
Pigeon	NIKF	U. S. Navy.	Reuo	NAMD	Do.
Pillsbury	NUQJ	Do.	Reno	WYAN	U. S. Army.
			Renshaw	NEVZ	U. S. Navy.

GOVERNMENT SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Ship	Call signal	Owner	Ship	Call signal	Owner
Richmond.....	Δ NISQ	U. S. Navy.	San Francisco.....	NIJZ	U. S. Navy.
Renshaw.....	NURG	Do.	San Pablo.....	WYBC	U. S. Army.
Ringgold.....	Δ NALT	Do.	San Pedro.....	WYAU	Do.
Rizal.....	Δ NEVU	Do.	Sapelo.....	NUGS	U. S. Navy.
Robin.....	NANQ	Do.	Saratoga.....	Δ NELB	Do.
Robinson.....	Δ NAIK	Do.	Satterlee.....	Δ NAGC	Do.
Rochester.....	Δ NIKD	Do.	Saturn.....	WYCD	U. S. Army.
Rodgers.....	Δ NITZ	Do.	Saukee.....	NIVQ	U. S. Coast Guard.
Rodgers.....	NIZT	Department of Commerce, Coast and Geo- detic Survey.	Savannah.....	NAQL	U. S. Navy.
Roe.....	NIKN	U. S. Coast Guard.	Scandinavia.....	NIZV	Department of Commerce, Coast and Geo- detic Survey.
Roper.....	Δ NERX	U. S. Navy.	Schenck.....	NEMG	U. S. Navy.
Rose.....	WWDS	Department of Commerce, Bureau of Light- houses.	Schley.....	Δ NELJ	Do.
Rowen.....	Δ NEKX	U. S. Navy.	Sciota.....	NEVK	Do.
Rush.....	NITP	U. S. Coast Guard.	Scoter.....	WTDF	Department of Commerce, Bureau of Fish- eries.
S-1.....	NIMG	U. S. Navy.	Seagull.....	NIJM	U. S. Navy.
S-2.....	NIMJ	Do.	Seal.....	WWFA	Alaska Game Commission.
S-3.....	NIMK	Do.	Seattle.....	Δ NAPG	U. S. Navy.
S-4.....	NIML	Do.	Selfridge.....	Δ NUJZ	Do.
S-6.....	NIMN	Do.	Seminole.....	Δ NEZL	U. S. Coast Guard.
S-7.....	NIMP	Do.	Semmes.....	Δ NAFZ	U. S. Navy.
S-8.....	NIMQ	Do.	Seneca.....	Δ NEXP	U. S. Coast Guard.
S-9.....	NIMR	Do.	Sepulga.....	NUGT	U. S. Navy.
S-10.....	NIMS	Do.	Sequoia.....	Δ WWDV	Department of Commerce, Bureau of Light- houses.
S-11.....	NIMT	Do.	Sharkey.....	Δ NULV	U. S. Navy.
S-12.....	NIMV	Do.	Shaw.....	Δ NEMB	U. S. Coast Guard.
S-13.....	NIMX	Do.	Shawnee.....	Δ NIZJ	Do.
S-14.....	NIMZ	Do.	Shirk.....	Δ NUJV	U. S. Navy.
S-15.....	NINB	Do.	Shubrick.....	Δ NIXD	Do.
S-16.....	NINC	Do.	Sicard.....	Δ NUPL	Do.
S-17.....	NIND	Do.	Sigourney.....	Δ NAJB	Do.
S-18.....	NINF	Do.	Simpson.....	Δ NUPX	Do.
S-19.....	NING	Do.	Sinclair.....	Δ NULR	Do.
S-20.....	NINJ	Do.	Sirlus.....	Δ NUPT	Do.
S-21.....	NINK	Do.	Sloat.....	Δ NUMD	Do.
S-22.....	NINL	Do.	Slocum.....	WYAV	U. S. Army.
S-23.....	NINM	Do.	Smith, Robert.....	Δ NUKB	U. S. Navy.
S-24.....	NINN	Do.	Smith.....	NIXG	U. S. Coast Guard.
S-25.....	NINP	Do.	Snohomish.....	NEXQ	Do.
S-26.....	NINQ	Do.	Solace.....	NIDT	U. S. Navy.
S-27.....	NINR	Do.	Somers.....	Δ NIZX	Do.
S-28.....	NINS	Do.	Somme.....	Δ WUAB	U. S. Army.
S-29.....	NINT	Do.	Sonoma.....	NIGT	U. S. Navy.
S-30.....	NINV	Do.	Sotovomo.....	NECZ	Do.
S-31.....	NINX	Do.	Southard.....	Δ NAJK	Do.
S-32.....	NINZ	Do.	Speedwell.....	Δ WWCQ	Department of Commerce, Bureau of Light- houses.
S-33.....	NIPB	Do.	Spica.....	NURD	U. S. Navy.
S-34.....	NIPC	Do.	Sprigg Carroll.....	WYCS	U. S. Army.
S-35.....	NIPD	Do.	Sproston.....	Δ NEVT	U. S. Navy.
S-36.....	NIPF	Do.	Spruce.....	Δ WWCJ	Department of Commerce, Bureau of Light- houses.
S-37.....	NIPG	Do.	Stansbury.....	Δ NEXV	U. S. Navy.
S-38.....	NIPJ	Do.	Sterrett.....	NIDZ	Do.
S-39.....	NIPK	Do.	Stevens.....	Δ NAPK	Do.
S-40.....	NIPL	Do.	Stewart.....	Δ NUNN	Do.
S-41.....	NIPM	Do.	St. Mihiel.....	Δ WUAD	U. S. Army.
S-42.....	NIPN	Do.	Stockton.....	Δ NAKL	U. S. Navy.
S-43.....	NIPP	Do.	Stoddert.....	Δ NALZ	Do.
S-44.....	NIPQ	Do.	Stribling.....	Δ NAVS	Do.
S-45.....	NIPR	Do.	Stringham.....	Δ NACP	Do.
S-46.....	NIPS	Do.	Sturtevant.....	Δ NUJP	Do.
S-47.....	NIPT	Do.	S. C. 57.....	NODF	Do.
S-48.....	NIPY	Do.	S. C. 63.....	NODN	Do.
S-49.....	NIPX	Do.	S. C. 64.....	NODP	Do.
S-50.....	NIPZ	Do.	S. C. 102.....	NOGL	Do.
S-51.....	NIQK	Do.	S. C. 103.....	NOGM	Do.
Sacramento.....	Δ NEVJ	Do.			
Sagamore.....	NANX	Do.			
St. Louis.....	NIFG	Do.			
Salem.....	NIJD	Do.			
Salinas.....	NUGR	Do.			
Salt Lake City.....	Δ NISK	Do.			
Sampson.....	Δ NELC	Do.			
Sanderling.....	NIJS	Do.			
Sandpiper.....	NIKK	Do.			
Sands.....	Δ NULQ	Do.			

## GOVERNMENT SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Ship	Call signal	Owner	Ship	Call signal	Owner
S. C. 143.....	NOKN	U. S. Navy.	Torpedo Test Barge	NIFX	U. S. Navy.
S. C. 185.....	NOMD	Do.	No. 3		
S. C. 192.....	NOMN	Do.	Torpedo Test Barge	NIFZ	Do.
S. C. 210.....	NONN	Do.	No. 4		
S. C. 223.....	NOPF	Do.	Toucey.....△	NULX	Do.
S. C. 224.....	NOPG	Do.	Tracy.....△	NUJL	Do.
S. C. 229.....	NOPN	Do.	Travis.....	NITJ	U. S. Coast Guard.
S. C. 231.....	NOPQ	Do.	Trenton.....△	NISR	U. S. Navy.
S. C. 271.....	NORS	Do.	Trevor.....△	NUMP	Do.
S. C. 306.....	NOTR	Do.	Trinity.....	NUGX	Do.
S. C. 326.....	NOVL	Do.	Trippe.....	NIQC	U. S. Coast Guard.
S. C. 328.....	NOVN	Do.	Triton.....	NIQD	U. S. Navy.
S. C. 330.....	NOVQ	Do.	Truxtun.....△	NUOQ	Do.
S. C. 353.....	NOXS	Do.	Tucker.....△	NEMF	U. S. Coast Guard.
S. C. 412.....	NOZJ	Do.	Tulip.....△	WWCH	Department of Commerce, Coast and Geodetic Survey.
S. C. 431.....	NOPR	Do.	Tulsa.....	NIST	U. S. Navy.
S. C. 432.....	NIQL	Do.	Turkey.....	NIJF	Do.
S. C. 433.....	NOPZ	Do.	Turner.....△	NERQ	Do.
S. C. 437.....	NOQQ	Do.	Tuscambia.....	WYCY	U. S. Army.
S. C. 440.....	NIQV	Do.	Tuscarora.....	NEZF	U. S. Coast Guard.
Sumac.....△	WWDL	Department of Commerce, Bu- reau of Light- houses.	Tuscarora.....	NEZF	U. S. Coast Guard.
Sumner.....△	NUOQ	U. S. Navy.	Tutuila.....	NEKC	U. S. Navy.
Sunflower.....	WWCZ	Department of Commerce, Bu- reau of Light- houses.	Twiggs.....△	NEPV	Do.
Sunnadin.....	NEVB	U. S. Navy.	Umpqua.....	NATS	Do.
Surveyor.....	NEVG	Department of Commerce, Coast and Geodetic Survey.	Unadilla.....	NEFT	Do.
Swallow.....	NEFL	U. S. Navy.	Unalga.....	NIDL	U. S. Coast Guard
Swan.....	NIJP	Do.	Undaunted.....	NERD	U. S. Navy.
Swasey.....△	NIQP	Do.	Upshur.....△	NEFS	Do.
T-1.....	NIJB	Do.	Upshur, Abel P.△	NUJD	Do.
T-2.....	NABB	Do.	Utah.....	NIQJ	Do.
T-3.....	NABZ	Do.	V-1.....	NIQC	Do.
Tadousac.....	NABQ	Do.	V-2.....	NICR	Do.
Tahoe.....△	NADB	U. S. Coast Guard.	V-3.....	NICS	Do.
Talbot.....△	NAPL	U. S. Navy.	V-4.....	NICT	Do.
Talbot, J. Fred.....△	NIGR	Do.	V-5.....	NICV	Do.
Tallapoosa.....△	NIDB	U. S. Coast Guard.	V-6.....	NICX	Do.
Tamaroa.....	NIVR	Do.	V-7.....	NICZ	Do.
Tampa.....△	NITC	Do.	V-8.....	NIDD	Do.
Tanager.....	NABS	U. S. Navy.	V-9.....	NIDJ	Do.
Tarbell.....△	NEZP	Do.	Vega.....△	NAXM	Do.
Tatnuck.....	NETQ	Do.	Vestal.....	NENK	Do.
Tattnall.....△	NEPS	Do.	Vigilant.....	NIXK	U. S. Coast Guard.
Taylor.....△	NALR	Do.	Vilalobos.....	NIQP	U. S. Navy.
Teal.....	NAPN	Do.	Vireo.....	NIKL	Do.
Teal.....	WTDE	Department of Commerce, Bu- reau of Fisheries.	Virginia I.....	NIZB	U. S. Coast Guard.
Tecumseh.....	WYDC	U. S. Army.	Wadsworth.....△	NEMK	U. S. Navy.
Tennessee.....△	NIDN	U. S. Navy.	Wainwright.....△	NEMN	U. S. Coast Guard
Teru.....	NIKT	Do.	Walker.....△	NITQ	U. S. Navy.
Terry.....	NIKZ	U. S. Coast Guard.	Walker.....△	NESX	Do.
Texas.....△	NADV	U. S. Navy.	Wandank.....	NARF	Do.
Thatcher.....△	NESV	Do.	Wando.....	NEGQ	Do.
Thomas.....△	NIFN	Do.	Warbler.....	KDKR	Do.
Thomas.....△	WUAI	U. S. Army.	Ward.....△	NAGS	Do.
Thompson.....△	NAZC	U. S. Navy.	Ward, Aaron.....△	NEIX	Do.
Thompson, Sara.....△	NEMD	Do.	Warrington.....△	NIRG	Do.
Thompson, Smith.....△	NUJJ	Do.	Wasmuth.....△	NUCK	Do.
Thornton.....	NIZZ	Do.	Waters.....△	NATT	Do.
Thrush.....△	NIKS	Do.	Welles.....△	NAJZ	Do.
Tiger.....	NIXP	U. S. Coast Guard.	West Memphis.....	WYCY	U. S. Army.
Tillamook.....	NOCB	U. S. Navy.	West Virginia.....△	NEDJ	U. S. Navy.
Tillman.....△	NEQT	Do.	Wheeling.....	NIRP	Do.
Tingard.....	NTSB	U. S. Coast Guard.	Whipple.....△	NUNL	Do.
Tingey.....	NISG	U. S. Navy.	Whippoorwill.....	NIJQ	Do.
Tippecanoe.....	NUGV	Do.	Whitney.....	NIRL	Do.
Topeka.....	NENF	Do.	Wickes.....	NATJ	Do.
Torpedo Test Barge No. 1.....	NIFR	Do.	Widgeon.....	NAQF	U. S. Navy.
Torpedo Test Barge No. 2.....	NIFS	Do.	Wildcat.....	NIVM	Department of Commerce, Coast and Geodetic Survey.
			Wilkes.....△	NEKV	U. S. Coast Guard.
			Willetts Point.....	WYCX	U. S. Army.
			Willetts.....	KDKS	U. S. Coast Guard.†
			Williams.....△	NENT	U. S. Navy.
			Williamson.....△	NUNS	Do.
			Willmette.....	NAVD	Do.
			Wilmington.....△	NIRS	Do.



GOVERNMENT SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Ship	Call signal	Owner	Ship	Call signal	Owner
Winslow.....Δ	NEGM	U. S. Navy.	Wright.....	NIRN	U. S. Navy.
Wissahickon.....	NIZD	U. S. Coast Guard.	Wyoming.....	NITR	Do.
W. L. Marshall.....	WYCO	U. S. Army.	Yamacraw.....	NIDM	U. S. Coast Guard.
Wm. T. Rossell.....	WYCQ	Do.	Yantic.....	NEDC	U. S. Navy.
Wolcott.....	NUVQ	U. S. Coast Guard.	Yarborough.....Δ	NUMC	Do.
Wompatuck.....	NIQN	U. S. Navy.	Yarnall.....Δ	NIGS	Do.
Wood.....Δ	NUMF	Do.	Yeaton.....	NIXT	U. S. Coast Guard
Wood, Welborn C. Δ	NULJ	Do.	York.....	NIQQ	U. S. Navy.
Woodbury.....	NIXZ	U. S. Coast Guard.	Yukon.....	NAQD	Do.
Woodcock.....	NIKP	U. S. Navy.	Zane.....Δ	NUMN	Do.
Worden.....Δ	NUNM	Do.	Zeilin.....Δ	NUMB	Do.

- <sup>1</sup> Operated by State of Pennsylvania.
- <sup>2</sup> Operated by Department of the Interior, Bureau of Education; accounts settled by R. M. C. A.
- <sup>3</sup> Operated by New York Naval Militia.
- <sup>4</sup> Operated by the Panama Canal.
- <sup>5</sup> Used by any vessel assigned to this duty.
- <sup>6</sup> Operated by State of Massachusetts.
- <sup>7</sup> Operated by State of New York.
- <sup>8</sup> Operated by U. S. Shipping Board.

# GOVERNMENT LAND, RADIOBEACON,<sup>1</sup> RADIO COMPASS, AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS

Call	Station	Call	Station
KCA	Cape Sarichef Light Station, Alaska...fc	NABL	C. G. 142.....b
KCB	Scotch Cap Light Station, Alaska...fc, fx	NABM	C. G. 151.....b
KCC	Cape Spencer Light Station, Alaska...fc, rf	NABN	C. G. 166.....b
KCD	Cape St. Elias Light Station, Alaska...fc	NABP	Pontchartrain.....b
KCG	St. George Reef Light Station, Calif...fx	NABQ	C. G. 179.....b
KCH	Crescent City Light Station, Calif...fx	NABR	C. G. 192.....b
KCI	Swiftsure Bank Lightship, Wash...fc, rf	NABS	Tanager.....b
KCJ	Umatilla Reef Lightship, Wash...fc, rf	NABT	Albany.....b
KCK	Columbia River Lightship, Wash...fc, rf	NABV	Ammen.....b
KCL	Relief Lightship No. 92.....fc	NABX	Annapolis.....b
KCM	Blunts Reef Lightship, Calif...fc, rf	NABZ	T-3.....b
KCN	San Francisco Lightship, Calif...fc	NAC	Portsmouth, N. H.....fc
KCO	Relief Lightship No. 76.....fc	NACB	Apache.....b
KCP	Makapuu Point Light Station, Ha-waii (Oahu Island).....fc, rf	NACC	C. G. 203.....b
KCQ	St. Louis, Mo.....fa, fx	NACD	Chelan.....b
KCR	Boise, Idaho.....fa, fx	NACF	C. G. 211.....b
KCS	La Grande, Oreg.....fa, fx	NACG	C. G. 222.....b
KCT	Los Angeles, Calif.....fx	NACK	C. G. 247.....b
KCU	Fresno, Calif.....fx	NACL	Hale.....b
KCV	Oakland, Calif.....fx	NACM	C. G. 278.....b
KCW	Redding, Calif.....fx	NACN	Dyer.....b
KCX	Medford, Oreg.....fx	NACP	Stringham.....b
KCY	Portland, Oreg.....fx	NACQ	McKee.....b
KCZ	Seattle, Wash.....fx	NACR	Rathburne.....b
KDA	Maywood, Ill.....fx	NACS	Owl.....b
KDKR	Warbler.....b	NACT	Arkansas.....b
KDKS	Peacock.....b	NACV	Arizona.....b
KDKY	Rock Springs, Wyo.....fx	NACX	C. G. 286.....b
KDN	Salt Lake City, Utah.....fx	NACZ	Allegheny.....b
KGD	Iowa City, Iowa.....fx	NAD	Boston, Mass.....fc
KIS	Fort Worth, Tex.....fx	NADB	Tahoe.....b
KJF	Reno, Nev.....fx	NADC	C. G. 254.....b
KKJ	Streveil, Idaho.....fx	NADD	Arcata.....b
KLK	Burley, Idaho.....fx	NADF	Crowninshield.....b
KME	Sacramento, Calif. (Mather Field).....fx	NADG	C. G. 293.....b
KNV	Elko, Nev.....fx	NADJ	C. G. 301.....b
KOC	Oklahoma City, Okla.....fx	NADK	Nevada.....b
KOJ	Kansas City, Mo.....fx	NADL	Kimberly.....b
KQK	Bryan, Ohio.....fx, fa	NADM	C. G. 281.....b
KRC	Cheyenne, Wyo.....fx	NADN	Oklahoma.....b
KRL	Pleasant Valley, Nev.....fx	NADP	Avocet.....b
KSQ	Pacific Coast (portable).....fx	NADQ	C. G. 290.....b
KVB	do.....fx	NADR	C. G. 265.....b
KVD	do.....fx	NADS	C. G. 277.....b
KVE	do.....fx	NADT	New York.....b
KVH	do.....fx	NADV	Texas.....b
KVJ	do.....fx	NADX	Pennsylvania.....b
KVK	do.....fx	NADZ	Bailey.....b
KVM	North Platte, Nebr.....fx	NAE	North Truro, Mass.....rg
KZAF	Basilan.....b	NAF	Newport, R. I.....fc
KZAQ	Corregidor.....b	NAFC	Dickerson.....b
KZAR	Mindoro.....b	NAFD	Baltimore.....b
KZBB	Bustamente.....b	NAFF	Brant.....b
KZDB	Apo.....b	NAFG	C. G. 298.....b
KDNY	Favorite.....b	NAFJ	Champlain.....b
NAA	Washington, D. C. (Arlington, Va.)...fx	NAFK	Beale.....b
NAB	Cape Elizabeth, Me.....rg	NAFL	Leary.....b
NABB	T-2.....b	NAFM	Birmingham.....b
NABC	Niagara.....b	NAFN	C. G. 302.....b
NABF	C. G. 105.....b	NAFP	Burrows.....b
NABG	C. G. 111.....b	NAFQ	Dreadnaught.....b
NABJ	C. G. 123.....b	NAFR	Arctic.....b
NABK	C. G. 133.....b	NAFS	Burns.....b
		NAFT	California.....b
		NAFV	Chester.....b
		NAFX	R-17.....b
		NAFZ	Semmes.....b
		NAG	Post Townsend, Wash. (section base 10).....fc
		NAGB	O-9.....b

<sup>1</sup> Those not open to communication for beacon signals included; see list on p. 128 for those open to communication for this purpose.

RADIO STATIONS OF THE UNITED STATES

GOVERNMENT LAND, RADIOBEACON, RADIO COMPASS, AND SHIP RADIO STATIONS,  
ALPHABETICALLY BY CALL SIGNALS—Continued

Call	Station	Call	Station		
NAGC	Satterlee.....	b	NAMJ	C. G. 249.....	b
NAGD	Cheyenne.....	b	NAMK	C. G. 256.....	b
NAGF	C. G. 279.....	b	NAML	C. G. 267.....	b
NAGO	Mason.....	b	NAMM	Nakomis.....	b
NAGJ	C. G. 287.....	b	NAMN	C. G. 275.....	b
NAGK	Mendota.....	b	NAMP	C. G. 102.....	b
NAGL	Chandler.....	b	NAMQ	C. G. 108.....	b
NAGM	Chicago.....	b	NAMR	0-3.....	b
NAGN	C. G. 100.....	b	NAMS	Nantucket.....	b
NAGP	C. G. 106.....	b	NAMT	Boggs.....	b
NAGQ	C. G. 112.....	b	NAMV	Alton.....	b
NAGR	C. G. 124.....	b	NAMX	0-4.....	rg
NAGS	Ward.....	b	NAN	Cape Lookout, N. C.....	b
NAGT	C. G. 134.....	b	NANB	0-6.....	b
NAGV	Cleveland.....	b	NANC	0-7.....	b
NAGX	Gwinn.....	b	NAND	0-8.....	b
NAGZ	C. G. 143.....	fc	NANF	Galveston.....	b
NAH	New York, N. Y.....	fc	NANG	C. G. 136.....	b
NAI	Philadelphia, Pa.....	fc	NANJ	C. G. 145.....	b
NAJ	Great Lakes, Ill.....	b	NANK	C. G. 154.....	b
NAJB	Sigourney.....	b	NANL	C. G. 169.....	b
NAJD	Black Hawk.....	b	NANM	C. G. 182.....	b
NAJF	C. G. 152.....	b	NANN	C. G. 195.....	b
NAJG	C. G. 167.....	b	NANP	C. G. 206.....	b
NAJJ	N-2.....	b	NANQ	Robin.....	b
NAJK	Southard.....	b	NANR	C. G. 214.....	b
NAJL	Colhoun.....	b	NANS	C. G. 225.....	b
NAJM	C. G. 180.....	b	NANT	Olympia.....	b
NAJN	C. G. 193.....	b	NANV	Chatanooga.....	b
NAJP	Finch.....	b	NANX	Sagamora.....	b
NAJQ	Bancroft.....	b	NANZ	Farquhar.....	fc
NAJR	Gregory.....	b	NAO	Charleston, S. C., radio.....	fc
NAJS	Pueblo.....	b	NAP	St. Augustine, Fla., radio.....	b
NAJT	Lydonia.....	b	NAPB	C. G. 241.....	b
NAJV	Denver.....	b	NAPC	C. G. 257.....	b
NAJX	Robinson.....	b	NAPD	C. G. 268.....	b
NAJZ	Welles.....	fc	NAPF	C. G. 274.....	b
NAK	Annapolis, Md. (Naval Academy).....	b	NAPG	Seattle.....	b
NAKB	C. G. 204.....	b	NAPJ	C. G. 291.....	b
NAKC	C. G. 212.....	b	NAPK	Stevens.....	b
NAKD	Des Moines.....	b	NAPL	Talbot.....	b
NAKF	C. G. 223.....	b	NAPM	Converse.....	b
NAKG	C. G. 239.....	b	NAPN	Teal.....	b
NAKJ	C. G. 248.....	b	NAPP	C. G. 103.....	b
NAKK	N-3.....	b	NAPQ	C. G. 109.....	b
NAKL	Stockton.....	b	NAPR	Camden.....	b
NAKM	C. G. 255.....	b	NAPS	Hawk.....	b
NAKN	Drayton.....	b	NAPT	Goldsborough.....	b
NAKP	Dubuque.....	b	NAPV	Bridgeport.....	b
NAKQ	C. G. 266.....	b	NAPX	C. G. 115.....	b
NAKR	C. G. 276.....	b	NAPZ	C. G. 127.....	fc, rg
NAKS	Elcano.....	b	NAQ	Jupiter, Fla.....	b
NAKT	C. G. 101.....	b	NAQB	C. G. 146.....	b
NAKV	Charleston.....	b	NAQC	Piscataqua.....	b
NAKX	Kilty.....	b	NAQD	Yukon.....	b
NAKZ	C. G. 107.....	b	NAQF	Widgeon.....	b
NAL	Washington, D. C. (Navy Yard).....	fc	NAQG	C. G. 204.....	b
NALB	C. G. 113.....	b	NAQJ	Rail.....	b
NALC	Lapwing.....	b	NAQL	C. G. 299.....	b
NALD	C. G. 125.....	b	NAQM	Savannah.....	b
NALF	C. G. 135.....	b	NAQN	Porpoise.....	b
NALG	C. G. 144.....	b	NAQP	Paul Hamilton.....	b
NALJ	C. G. 153.....	b	NAQQ	C. G. 155.....	b
NALK	Lykens.....	b	NAQR	C. G. 170.....	b
NALL	C. G. 168.....	b	NAQS	C. G. 183.....	b
NALM	Boreas.....	b	NAQT	C. G. 196.....	b
NALN	C. G. 181.....	b	NAQV	C. G. 207.....	b
NALP	Kingfisher.....	b	NAQX	Hannibal.....	b
NALQ	C. G. 194.....	b	NAQZ	C. G. 215.....	b
NALR	Taylor.....	b	NAR	C. G. 226.....	fc
NALS	Fanning.....	b	NARB	Key West, Fla., radio.....	b
NALT	Ringgold.....	b	NARC	C. G. 242.....	b
NALV	C. G. 205.....	b	NARD	Maryland.....	b
NALX	C. G. 213.....	b	NARF	C. G. 250.....	b
NALZ	Stoddert.....	fc	NARG	Wandank.....	b
NAM	Norfolk, Va., radio.....	b	NARI	Chemung.....	b
NAMB	Florida.....	b	NARK	C. G. 258.....	b
NAMC	C. G. 224.....	b	NARL	C. G. 269.....	b
NAMD	Reno.....	b	NARM	C. G. 273.....	b
NAMF	C. G. 240.....	b	NARN	C. G. 104.....	b
NAMG	General Alava.....	b		C. G. 110.....	b

GOVERNMENT LAND, RADIOBEACON, RADIO COMPASS, AND SHIP RADIO STATIONS,  
ALPHABETICALLY BY CALL SIGNALS—Continued

Call	Station	Call	Station
NARP	Aramis	b	
NARQ	C. G. 116	b	NAXX C. G. 210
NARR	William Jones	b	NAXZ C. G. 219
NART	C. G. 128	b	NAVY Brownsville, Tex
NARV	C. G. 137	b	NAZ Managua, Nicaragua
NARX	C. G. 147	b	NAZB C. G. 231
NARZ	R-20	b	NAZC Thompson
NAS	Pensacola, Fla	fa, fx, rg (ab)	NAZD C. G. 246
NASB	C. G. 156	b	NAZF C. G. 253
NASC	Ilelena	b	NAZG C. G. 262
NASD	Henley	b	NAZH C. G. 120
NASF	C. G. 171	b	NAZJ Capella
NASG	Isabel	b	NAZK Lambertson
NASJ	Gold Star	b	NAZL Kennedy
NASK	C. G. 184	b	NAZM C. G. 132
NASL	C. G. 197	b	NAZN Bagaduce
NASM	O-16	b	NAZO Tadousac
NASN	C. G. 208	b	NAZR C. G. 141
NASP	C. G. 216	b	NAZS Kaimin
NASQ	Regulus	b	NAZT C. G. 160
NASR	C. G. 227	b	NAZV C. G. 175
NASS	C. G. 243	b	NAZZ Robert L. Barnes
NAST	C. G. 259	b	NBA Balboa, Canal Zone Radio (Darien)
NASV	R-15	b	NBB St. Thomas, Virgin Islands
NASX	R-16	b	NBC Coco Solo, Canal Zone
NASZ	C. G. 270	b	NBD Bar Harbor, Me, radio
NAT	New Orleans, La	fc	NBE Thatcher Island, Mass
NATB	Antares	b	NBF Fourth Cliff, Mass
NATC	C. G. 117	b	NBH Staten Island, N. Y. (section base 2)
NATD	C. G. 129	b	NBI Fort Lauderdale, Fla. (section base 0)
NATF	C. G. 138	b	NBK Newport, R. I. (torpedo station)
NATG	Bell	b	NBL New London, Conn
NATJ	Wickes	b	NBM Amagansett, N. Y.
NATK	C. G. 148	b	NBN Bethany Beach, Del.
NATL	C. G. 157	b	NBO St. John, Virgin Islands
NATM	Mendota	b	NBS Surfside, Mass. (Nantucket Island)
NATN	C. G. 172	b	NBX South Pass, La
NATP	C. G. 185	b	NCB Buffalo, N. Y.
NATQ	C. G. 198	b	NCD San Diego, Calif. (naval headquarters)
NATR	C. G. 209	b	NCG Rockaway Beach, N. Y.
NATS	Umpqua	b	NCH Puget Sound, Wash. (Bremerton)
NATT	Waters	b	NCK Mobile, Ala
NATX	C. G. 228	b	NCM Tau, Samoa
NATZ	C. G. 229	b	NCP Nahant, Mass
NAU	San Juan, P. R., radio (Cayey)	fc	NCQ San Juan, P. R. (control)
NAV	Parris Island, S. C., radio	fc	NCY Cape May, N. J.
NAVY	C. G. 244	b	NCZ Chesapeake Bay RC group, master station, Virginia Beach
NAVC	C. G. 251	b	NDA Wellesley, Mass. (first district reserve unit)
NAVD	Wilmette	b	NDB New York, N. Y. (third district reserve unit)
NAVF	C. G. 260	b	NDC Wilmington, Del. (fourth district reserve unit)
NAVG	C. G. 271	b	NDD Pensacola, Fla. (eighth district reserve unit)
NAVJ	C. G. 113	b	NDE Norfolk, Va. (fifth district reserve unit)
NAVK	C. G. 130	b	NDJ Atlanta, Ga. (sixth district reserve unit)
NAVL	C. G. 139	b	NDK Baltimore, Md. (fifth district reserve unit)
NAVMI	Explorer	b	NDL Winter Park, Fla. (seventh district reserve unit)
NAVN	C. G. 149	b	NDO Oakland, Calif. (twelfth district reserve unit)
NAVY	C. G. 158	b	NDP Madison, Wis. (ninth district reserve unit)
NAVQ	C. G. 173	b	NDQ Seattle, Wash. (thirteenth district reserve unit)
NAVR	C. G. 186	b	NDS Winnetka, Ill. (ninth district reserve unit)
NAVS	Stribling	b	NDT San Diego, Calif. (eleventh district reserve unit)
NAVY	C. G. 218	b	NDU Jacksonville, Fla. (seventh district reserve unit)
NAVX	Idaho	b	NDV Los Angeles, Calif. (eleventh district reserve unit)
NAVZ	C. G. 252	b	NDW Cape Hatteras RC group, master station, Cape Hatteras, N. C.
NAW	Guantanamo Bay, Cuba	fc, fx	NDX Poyners Hill, N. C.
NAX	Colon, Panama, radio	fc	
NAXB	C. G. 261	b	
NAXC	C. G. 272	b	
NAXD	C. G. 119	b	
NAXE	C. G. 131	b	
NAXF	C. G. 140	b	
NAXG	Montgomery	b	
NAXH	Murray	b	
NAXI	C. G. 150	b	
NAXM	Vega	b	
NAXN	Kewaydin	b	
NAXP	C. G. 159	b	
NAXQ	C. G. 174	b	
NAXR	C. G. 187	b	
NAXS	O-15	b	
NAXT	O-10	b	
NAXV	C. G. 199	b	



GOVERNMENT LAND, RADIOBEACON, RADIO COMPASS, AND SHIP RADIO STATIONS,  
ALPHABETICALLY BY CALL SIGNALS—Continued

Call	Station	Call	Station
NDY	Dahlgren, Va. . . . .	fx	NEGL C. G. 292 . . . . .
NDZ	New Orleans, La. (eighth district re- serve unit) . . . . .	fx	NEGM Winslow . . . . .
NEBB	C. G. 200. . . . .	b	NEGN Allen . . . . .
NEBC	C. G. 220. . . . .	b	NEGP Conyngham . . . . .
NEBD	C. G. 232. . . . .	b	NEGQ Wando . . . . .
NEBF	C. G. 263. . . . .	b	NEGR Davis . . . . .
NEBG	C. G. 121. . . . .	b	NEGS L-9 . . . . .
NEBJ	Meade . . . . .	b	NEGT Rappahannock . . . . .
NEBK	C. G. 161. . . . .	b	NEGV Frederick . . . . .
NEBL	C. G. 176. . . . .	b	NEGX Mayrant . . . . .
NEBM	C. G. 189. . . . .	b	NEGZ Mayflower . . . . .
NEBN	C. G. 201. . . . .	b	NEJB Eagle 1 . . . . .
NEBP	C. G. 221. . . . .	b	NEJC Eagle 2 . . . . .
NEBQ	C. G. 233. . . . .	b	NEJD Eagle 3 . . . . .
NEBR	C. G. 264. . . . .	b	NEJF Eagle 4 . . . . .
NEBS	C. G. 122. . . . .	b	NEJG Eagle 5 . . . . .
NEBT	C. G. 162. . . . .	b	NEJJ Eagle 6 . . . . .
NEBV	H-9 . . . . .	b	NEJK Eagle 7 . . . . .
NEBX	C. G. 177. . . . .	b	NEJL Eagle 8 . . . . .
NEBZ	C. G. 190. . . . .	b	NEJM Eagle 9 . . . . .
NECB	C. G. 234. . . . .	b	NEJN Eagle 10 . . . . .
NECC	C. G. 163. . . . .	b	NEJP Eagle 11 . . . . .
NECD	Navigator . . . . .	b	NEJQ Eagle 12 . . . . .
NECF	C. G. 178. . . . .	b	NEJR Eagle 13 . . . . .
NECG	C. G. 191. . . . .	b	NEJS Eagle 14 . . . . .
NECJ	C. G. 235. . . . .	b	NEJT Eagle 15 . . . . .
NECL	C. G. 280. . . . .	b	NEJV McCall . . . . .
NECM	C. G. 164. . . . .	b	NEJX Melville . . . . .
NECN	C. G. 236. . . . .	b	NEJZ Eagle 18 . . . . .
NECP	C. G. 288. . . . .	b	NEKB Eagle 19 . . . . .
NECQ	C. G. 300. . . . .	b	NEKC Tutuila . . . . .
NECR	Colorado . . . . .	b	NEKD Genessee . . . . .
NECS	Guam . . . . .	b	NEKF Eagle 22 . . . . .
NECT	Penguin . . . . .	b	NEKG Eagle 23 . . . . .
NECV	Palmer . . . . .	b	NEKJ Eagle 24 . . . . .
NECX	Kittery . . . . .	b	NEKK L-3 . . . . .
NECZ	Sotoyomo . . . . .	b	NEKL Narragansett . . . . .
NEDB	Panay . . . . .	b	NEKM Mercy . . . . .
NEDC	Yantic . . . . .	b	NEKN Falcon . . . . .
NEDD	Fulton . . . . .	b	NEKP Monaghan . . . . .
NEDG	Philip . . . . .	b	NEKQ Champlin . . . . .
NEDJ	West Virginia . . . . .	b	NEKR Missoula . . . . .
NEDK	Jarvis . . . . .	b	NEKS Challenge . . . . .
NEDL	Jenkins . . . . .	b	NEKT Mississippi . . . . .
NEDM	Jouett . . . . .	b	NEKV Wilkes . . . . .
NEDN	Aylwin . . . . .	b	NEKX Rowan . . . . .
NEDP	Baleh . . . . .	b	NEKZ Manhattan . . . . .
NEDQ	Benham . . . . .	b	NEL Lakehurst, N. J. . . . .
NEDR	Cassin . . . . .	b	NELB Saratoga . . . . .
NEDS	N-1 . . . . .	b	NELC Sampson . . . . .
NEDT	Cummings . . . . .	b	NELD K-2 . . . . .
NEDV	Cushing . . . . .	b	NELF K-3 . . . . .
NEDX	Downes . . . . .	b	NELG Dorsey . . . . .
NEDZ	Craneship No. 1 . . . . .	b	NELJ Schley . . . . .
NEFB	Duncan . . . . .	b	NELK Pyro . . . . .
NEFC	H-6 . . . . .	b	NELL Nitro . . . . .
NEFD	Ericsson . . . . .	b	NELM K-4 . . . . .
NEFF	L-11 . . . . .	b	NELN H-8 . . . . .
NEFG	Dallas . . . . .	b	NELP K-5 . . . . .
NEFJ	C. G. 237. . . . .	b	NELQ K-6 . . . . .
NEFK	Pelican . . . . .	b	NELR Contocook . . . . .
NEFL	Swallow . . . . .	b	NELS K-7 . . . . .
NEFM	C. G. 165. . . . .	b	NELT K-8 . . . . .
NEFN	Oahu . . . . .	b	NELV Asheville . . . . .
NEFP	McDougal . . . . .	b	NELX Aaron Ward . . . . .
NEFQ	C. G. 202. . . . .	b	NELZ L-2 . . . . .
NEFR	Nicholson . . . . .	b	NEMB Shaw . . . . .
NEFS	Bushnell . . . . .	b	NEMC Medusa . . . . .
NEFT	Unadilla . . . . .	b	NEMD Sara Thompson . . . . .
NEFV	O'Brien . . . . .	b	NEMF Tucker . . . . .
NEFX	Northampton . . . . .	b	NEMG Schenk . . . . .
NEFZ	Parker . . . . .	b	NEMH Herbert . . . . .
NEG	Oakland, Calif. (Government island) . . . . .	fc	NEMJ Wadsworth . . . . .
NEGB	Corwin . . . . .	b	NEMK Branch . . . . .
NEGC	R-18 . . . . .	b	NEML Penacook . . . . .
NEGD	Luce . . . . .	b	NEMM Wainwright . . . . .
NEGF	Dent . . . . .	b	NEMN Ammunition Lighter 8 . . . . .
NEGG	C. G. 282. . . . .	b	NEMP Farenholt . . . . .
NEGJ	Luzon . . . . .	b	NEMQ Navajo . . . . .
NEGK	R-19 . . . . .	b	NEMR Evans . . . . .
			NEMS McKean . . . . .
			NEMT

GOVERNMENT LAND, RADIOBEACON, RADIO COMPASS, AND SHIP RADIO STATIONS,  
ALPHABETICALLY BY CALL SIGNALS—Continued

Call	Station	Call	Station		
NEMV	Harding	b	NESP	Paulding	b
NEMX	Gridley	b	NESQ	Porter	b
NEMZ	Chew	b	NESR	Fathomer	b
NENB	Commodore	b	NESS	Bernadou	b
NENC	Pathfinder	b	NEST	Cole	b
NEND	Bache	b	NESV	Thatcher	b
NENF	Topeka	b	NESX	Walker	b
NENG	Israel	b	NESZ	Crosby	b
NENJ	Herndon	b	NETB	McFarland	b
NENK	Vestal	b	NETC	Pittsburgh	b
NENL	Heron	b	NETD	Mahopac	b
NENM	Dallas	b	NETF	Lea	b
NENP	New Orleans	b	NETG	H-5	b
NENQ	Newport	b	NETJ	O-2	b
NENR	Aroostook	b	NETK	O-11	b
NENS	Hazelwood	b	NETL	O-12	b
NENT	Williams	b	NETM	Perkins	b
NENV	Hart	b	NETN	Monocacy	b
NENX	Ingraham	b	NETP	Prometheus	b
NENZ	Ludlow	b	NETQ	Tatnuck	b
NEPB	Hovey	b	NETR	Palos	b
NEPC	Mindanao	b	NETS	Meridith	b
NEPD	J. D. Long	b	NETT	Bush	b
NEPF	Broome	b	NETV	Cowell	b
NEPG	Mauzy	b	NETX	Maddox	b
NEPJ	Oglala	b	NETZ	Koka	b
NEPK	Charlotte	b	NEV	Savannah, Ga., Radio	fc
NEPL	North Dakota	b	NEVB	Sunnadin	b
NEPM	Neptune	b	NEVC	Napa	b
NEPN	Essex	b	NEVD	O-14	b
NEPP	K-1	b	NEVF	Pampanga	b
NEPQ	Relief	b	NEVG	Surveyor	b
NEPR	Old Constellation	b	NEVJ	Sacramento	b
NEPS	Tattnall	b	NEVK	Sciota	b
NEPT	Badger	b	NEVL	Pinola	b
NEPV	Twiggs	b	NEVM	Oriole	b
NEPX	Babbitt	b	NEVN	New Mexico	b
NEPZ	Jacob Jones	b	NEVP	Algoma	b
NEQB	Jason	b	NEVQ	Carrabasset	b
NEQC	Langley	b	NEVR	Iuka	b
NEQD	Kanawha	b	NEVS	Anthony	b
NEQE	Montcalm	b	NEVT	Sproston	b
NEQG	Dexter	b	NEVV	Rizal	b
NEQH	Mahan	b	NEVX	Mackenzie	b
NEQL	Maumee	b	NEVZ	Renshaw	b
NEQM	H-4	b	NEXB	Radford	b
NEQN	C. G. 283	b	NEXC	Keesanqua	b
NEQP	Nereus	b	NEXD	Algonquin	b
NEQQ	Beaver	b	NEXF	Eagle 26	b
NEQR	C. G. 289	b	NEXG	Eagle 27	b
NEQS	Buchanan	b	NEXJ	O-1	b
NEQT	Tillman	b	NEXM	Eagle 28	b
NEQV	C. G. 295	b	NEXN	Eagle 29	b
NEQW	Kennison	b	NEXP	Seneca	b
NEQX	Claxton	b	NEXQ	Snohomish	b
NERB	Gilmer	b	NEXR	Mugford	b
NERC	Proteus	b	NEXS	O'Bannon	b
NERD	Undaunted	b	NEXT	Hogan	b
NERF	H-3	b	NE XV	Stansbury	b
NERG	Aulick	b	NEXX	Hopewell	b
NERJ	Craven	b	NE XZ	Harnden	b
NERK	Naval Ship Stations (any or all)	b	NEZB	Briarcliff	b
NERL	Lansdale	b	NEZC	Gresham	b
NERN	Orion	b	NEZD	Ossipee	b
NERP	Cuyama	b	NEZF	Tusearora	b
NERQ	Turner	b	NEZG	Manning	b
NERR	Gillis	b	NEZJ	Eagle 32	b
NER S	Upshur	b	NEZK	Pamlico	b
NERT	Greer	b	NEZL	Seminole	b
NERV	Elliot	b	NEZM	Little	b
NERX	Roper	b	NEZN	O-13	b
NERZ	Breckenridge	b	NEZP	Tarbell	b
NE SB	Penobscot	b	NEZQ	Acushnet	b
NESC	Paducah	b	NEZR	Gamble	b
NE SD	Henderson	b	NEZS	Abbot	b
NE SF	Bridge	b	NEZT	Clemson	b
NE SG	Patterson	b	NEZV	Hatfield	b
NE SJ	H-7	b	NEZX	Brooks	b
NE SL	Patapasco	b	NEZZ	Belknap	b
NE SM	Breese	b	NFB	Fernandina, Fla. (section base 20)	fc
NE SN	Inca	b	NFD	Balboa, C. Z. (control)	fc, fx

GOVERNMENT LAND, RADIOBEACON, RADIO COMPASS, AND SHIP RADIO STATIONS,  
ALPHABETICALLY BY CALL SIGNALS—Continued

Call	Station	Call	Station
NFG	Anacortes, Wash. (section base 12).....fc	NIDZ	Sterrett.....b
NFH	Smith Island, Wash.....rg	NIFB	Crane.....b
NFK	Manasquan, N. J.....rg	NIFC	Ramsay.....b
NFN	Cattle Point, Wash.....rg	NIFD	Ellis.....b
NFT	New Dungeness, Wash.....rg	NIFE	H-2.....b
NFV	Quantico, Va.....fa, fs	NIFG	St. Louis.....b
NFW	Honolulu, T. H. (Wailupe).....fa	NIFJ	Percival.....b
NGA	Washington, D. C.....fc	NIFK	Brazos.....b
NGB	New Shoreham, station, Block Island, R. I.....fc	NIFL	Hamilton.....b
NGC	San Francisco, Calif.....fc	NIFM	Howard.....b
NGF	Woods Hole, Mass. (section base 18).....fc	NIFN	Thomas.....b
NGH	New London, Conn. (C. G. Acad- emy).....fx	NIFP	Neches.....b
NGK	St. Petersburg, Fla.....fc	NIFQ	Pecos.....b
NGL	Gloucester, Mass.....fc	NIFR	Torpedo test barge No. 1.....b
NGM	Curtis Bay, Md.....fc	NIFS	Torpedo test barge No. 2.....b
NGO	Prices Neck, R. I.....rg	NIFT	Louisville.....b
NGQ	San Pedro, Calif.....fc	NIFX	Torpedo test barge No. 3.....b
NGT	Seattle, Wash.....fc	NIFZ	Torpedo test barge No. 4.....b
NGX	Ofu, Samoa.....fx	NIG	Port Angeles, Wash. (section base 13).....fc
NIH	Newport, R. I. (torpedo station).....fx	NIGB	McCook.....b
NIID	Sandy Hook, N. J.....rg	NIGC	McCalla.....b
NIIG	Cape Henry, Va. (section base 8).....fc	NIGD	Kalk.....b
NHP	Honolulu, T. H. (Heeia Point).....fx	NIGE	Osmund Ingram.....b
NIHR	Hampton Roads, Va. (naval operat- ing base).....fc	NIGG	McDermut.....b
NIBB	Eagle 33.....b	NIGH	Laub.....b
NIBC	Eagle 39.....b	NIGJ	McLanahan.....b
NIBD	Eagle 34.....b	NIGK	Edwards.....b
NIBF	Eagle 40.....b	NIGL	Greene.....b
NIBG	Eagle 35.....b	NIGM	Ballard.....b
NIBJ	Eagle 41.....b	NIGN	Swasey.....b
NIBK	Eagle 36.....b	NIGP	John Francis Burnes.....b
NIBL	Eagle 42.....b	NIGQ	J. F. Talbot.....b
NIBM	Eagle 37.....b	NIGR	Yarnall.....b
NIBN	Eagle 38.....b	NIGS	Sonoma.....b
NIBP	Eagle 43.....b	NIGT	Marinduque.....b
NIBQ	Eagle 44.....b	NIGV	Eagle.....b
NIBR	Eagle 45.....b	NIGW	Fairfax.....b
NIBS	Eagle 46.....b	NIGX	Salem.....b
NIBT	Eagle 47.....b	NII	Turkey.....b
NIBV	Eagle 48.....b	NIIA	Partridge.....b
NIBX	Eagle 49.....b	NIIB	Bobolink.....b
NIBZ	Eagle 50.....b	NIIC	Lark.....b
NICB	Eagle 51.....b	NIID	Pioneer.....b
NICC	Eagle 52.....b	NIIE	Seagull.....b
NICD	Eagle 53.....b	NIIF	Guide.....b
NICF	Eagle 54.....b	NIIG	Swan.....b
NICG	Eagle 55.....b	NIIJ	Whippoorwill.....b
NICJ	Eagle 56.....b	NIIK	Bittern.....b
NICK	Eagle 57.....b	NIIL	Sanderling.....b
NICL	Eagle 58.....b	NIIM	Discoverer.....b
NICM	Eagle 59.....b	NIIN	Chewink.....b
NICN	Eagle 60.....b	NIIP	Gannet.....b
NICP	Cygan.....b	NIIQ	San Francisco.....b
NICQ	V-1.....b	NIIR	San Francisco (naval headquarters).....fc, fx
NICR	V-2.....b	NIIS	Mallard.....b
NICS	V-3.....b	NIIT	Ortolan.....b
NICT	V-4.....b	NIU	Rochester.....b
NICV	V-5.....b	NIUX	Pigeon.....b
NICX	V-6.....b	NIV	Redwing.....b
NICZ	V-7.....b	NIX	Sandpiper.....b
NIDB	Tallapoosa.....b	NIZ	Vireo.....b
NIDC	Commanche.....b	NIKB	Lexington.....b
NIDD	V-8.....b	NIKC	Roe.....b
NIDF	Augusta.....b	NIKD	Woodcock.....b
NIDG	Forward.....b	NIKE	Quail.....b
NIDJ	V-9.....b	NIKF	Eider.....b
NIDK	International ice patrol.....b	NIKG	Thrush.....b
NIDL	Unalga.....b	NIKH	Tern.....b
NIDM	Yamacraw.....b	NIKI	Cormorant.....b
NIDN	Tennessee.....b	NIKM	Grebe.....b
NIDP	Manley.....b	NIKN	Terry.....b
NIDQ	Caldwell.....b	NIKO	T-1.....b
NIDR	Connor.....b	NIKP	R-1.....b
NIDS	Arapahoe.....b	NIKR	R-2.....b
NIDT	Solace.....b	NIKQ	R-3.....b
NIDV	Huron.....b	NIKS	R-4.....b
NIDX	Ontario.....b	NIKT	R-5.....b
		NIKV	R-6.....b
		NIKX	R-7.....b
		NIKY	R-8.....b
		NIKZ	
		NIL	
		NILA	
		NILB	
		NILC	
		NILD	
		NILE	
		NILF	
		NILG	
		NILH	
		NILI	
		NILJ	
		NILK	
		NILL	
		NILM	

GOVERNMENT LAND, RADIOBEACON, RADIO COMPASS, AND SHIP RADIO STATIONS,  
ALPHABETICALLY BY CALL SIGNALS—Continued

Call	Station	Call	Station		
NILN	R-9	b	NIRD	Dahlgren	b
NILP	R-10	b	NIRF	Dupont	b
NILQ	R-11	b	NIRG	Warrington	b
NILR	R-12	b	NIRJ	Foote	b
NILS	R-13	b	NIRK	Huntingdon	b
NILT	R-14	b	NIRL	Whitney	b
NILV	R-21	b	NIRM	Holland	b
NILX	R-22	b	NIRN	Wright	b
NILZ	R-23	b	NIRP	Wheeling	b
NIMB	R-24	b	NIRQ	Fox	b
NIMC	R-25	b	NIRR	Marblehead	b
NIMD	R-26	b	NIRS	Wilmington	b
NIMF	R-27	b	NIRT	Raleigh	b
NIMG	S-1	b	NIRV	Concord	b
NIMJ	S-2	b	NIRX	Canopus	b
NIMK	S-3	b	NIRZ	Denebola	b
NIML	S-4	b	NISB	Tingard	b
NIMM	S-6	b	NISC	Northland	b
NIMP	S-7	b	NISD	C. G. 284	b
NIMQ	S-8	b	NISF	AB-9	b
NIMR	S-9	b	NISG	Tingey	b
NIMS	S-10	b	NISJ	Pensacola	b
NIMT	S-11	b	NISK	Salt Lake City	b
NIMV	S-12	b	NISL	Omaha	b
NIMX	S-13	b	NISM	Milwaukee	b
NIMZ	S-14	b	NISN	Cincinnati	b
NINB	S-15	b	NISP	Detroit	b
NINC	S-16	b	NISQ	Richmond	b
NIND	S-17	b	NISR	Trenton	b
NINF	S-18	b	NISS	Memphis	b
NING	S-19	b	NIST	Tulsa	b
NINJ	S-20	b	NISV	Chaumont	b
NINK	S-21	b	NISX	Argonne	b
NINL	S-22	b	NISZ	Bayspring	b
NINM	S-23	b	NITB	Marion	b
NINN	S-24	b	NITC	Tampa	b
NINP	S-25	b	NITF	Haida	b
NINQ	S-26	b	NITG	Naugatuck	b
NINR	S-27	b	NITJ	Travis	b
NINS	S-28	b	NITK	Nemaha	b
NINT	S-29	b	NITL	Antistam	b
NINV	S-30	b	NITM	Cuyahoga	b
NINX	S-31	b	NITN	Legare	b
NINZ	S-32	b	NITP	Rush	b
NIPB	S-33	b	NITQ	Walke	b
NIPC	S-34	b	NITR	Wyoming	b
NIPD	S-35	b	NITS	Morris	b
NIFE	S-36	b	NITT	Montgomery	b
NIPG	S-37	b	NITV	Cahokia	b
NIPJ	S-38	b	NITX	Kickapoo	b
NIPK	S-39	b	NITZ	Rodgers	b
NIPL	S-40	b	NIVB	Morris	b
NIPM	S-41	b	NIVC	Dix	b
NIPN	S-42	b	NIVD	Modoc	b
NIPP	S-43	b	NIVE	McLane	b
NIPQ	S-44	b	NIVG	G. G. 296	b
NIPR	S-45	b	NIVJ	Cahoone	b
NIPS	S-46	b	NIPK	Cartigan	b
NIPT	S-47	b	NIVL	Agassiz	b
NIPV	S-48	b	NIVM	Wildcat	b
NIPX	S-49	b	NIVN	Crawford	b
NIPZ	S-50	b	NIVP	Mascoutin	b
NIQB	Pawtucket	b	NIVQ	Saukee	b
NIQC	Trippe	b	NIVR	Tamaroa	b
NIQD	Triton	b	NIVS	Alexander Hamilton	b
NIQE	Houston	b	NIVT	Alert	b
NIQG	Gallatin	b	NIVV	Faunce	b
NIQJ	Utah	b	NIVX	Patrol	b
NIQK	S-51	b	NIVZ	Frederick Lee	b
NIQL	C. G. 432	b	NIXB	Mojave	b
NIQM	Boxer	b	NIXC	Jackson	b
NIQN	Wompatuck	b	NIXD	Shubrick	b
NIQP	Villalobas	b	NIXE	Reliance	b
NIQR	York	b	NIXG	Smith	b
NIQS	Farragut	b	NIXJ	Diligence	b
NIQT	Bagley	b	NIXK	Vigilant	b
NIQU	Barney	b	NIXL	General Greene	b
NIQV	S. C. 440	b	NIXM	Ewing	b
NIQX	Biddle	b	NIXN	Kimball	b
NIQZ	Blakeley	b	NIXP	Tiger	b



GOVERNMENT LAND, RADIOBEACON, RADIO COMPASS, AND SHIP RADIO STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call	Station	Call	Station
NIXQ	Bonham..... b	NPL	San Diego, Calif. (Chollas Heights)..... fc, fx
NIXR	Harriet Lane..... b	NPM	Honolulu, Hawaii (Pearl Harbor)..... fx
NIXS	Active..... b	NPN	Guam, Marianas Island, radio..... fc, fx
NIXT	Yeaton..... b	NPO	Cavite, P. I..... fx
NIXV	Pulaski..... b	NPP	Pekin, China..... fx
NIXX	Boutwell..... b	NPQ	St. Paul, Alaska, radio..... fc
NIXZ	Woodbury..... b	NPR	Dutch Harbor, Alaska, radio..... fc
NIZB	Virginia I..... b	NPS	Kodiak, Alaska, radio..... fc
NIZC	Florence..... b	NPT	Olongapo, P. I..... fc
NIZD	Wissahickon..... b	NPU	Tutuila, Samoa, radio..... fc
NIZF	Osprey..... b	NPW	Eureka, Calif., radio..... fc
NIZG	Raritan..... b	NPX	Point Fermin, Calif..... rg
NIZJ	Shawnee..... b	NPY	Pearl Harbor, Hawaii (submarine base)..... fx
NIZK	Hudson..... b	NPZ	Imperial Beach, Calif..... rg
NIZL	Calumet..... b	NQB	Toro Point, Canal Zone..... rg
NIZM	Elsie..... b	NQC	Bar Harbor, Me..... rg
NIZN	Helianthus..... b	NQG	San Diego, Calif..... fx
NIZP	Marindin..... b	NQO	Naval land stations (any or all)..... fc, fx
NIZQ	Mikawa..... b	NRK	Puerto Obaldia, Panama, radio..... fc
NIZR	Mitchell..... b	NRM	Cape Hitchinbrook, Alaska..... rg
NIZS	Ogden..... b	NSC	Port au Prince, Haiti, radio..... fc
NIZT	Rodgers..... b	NSD	Delaware Bay RC group, master station, Cape Henlopen, Del..... rg
NIZV	Scandinavia..... b	NSF	Anacostia, D. C..... fa
NIZX	Somers..... b	NSG	Biloxi, Miss. (section base 15)..... fc
NIZZ	Thornton..... b	NSS	Washington, D. C. (Annapolis, Md.)..... fx
NJY	New York Bay RC Group, master station, Fire Island, N. Y..... rg	NTB	Long Beach, Calif. (naval reserve air base)..... fa
NKB	Galveston, Tex..... rg	NUCG	Perry..... b
NKC	Cape May, N. J..... rg	NUDF	Privateer..... b
NKF	Bellevue, D. C..... fx	NUDG	Ranger..... b
NLB	Cavite, P. I. (Los Banos)..... fx	NUFB	Mohawk..... b
NLG	Point Reyes, Calif..... rg	NUFN	Barnett..... b
NLH	Point Montara, Calif..... rg	NUFZ	Clarinda..... b
NLO	New London, Conn..... fc	NUG	Eagle Harbor, Mich..... rg
NMD	Point Huename, Calif..... rg	NUGD	Mackinac..... b
NNI	St. Croix, Virgin Islands..... fx	NUGG	Natoma..... b
NNT	Cape Mala, Canal Zone, radio..... fc	NUGK	Kaweah..... b
NNW	La Palma, Panama..... b	NUGL	Laramie..... b
NOCB	Tillamook..... b	NUMG	Matrole..... b
NOCG	Mahoning..... b	NUGN	Patoka..... b
NOCK	C. G. 285..... b	NUGP	Ramapo..... b
NOCP	C. G. 297..... b	NUGQ	Rapidan..... b
NODF	S. C. 57..... b	NUGR	Salinas..... b
NODN	S. C. 63..... b	NUGS	Sapelo..... b
NODP	S. C. 61..... b	NUGT	Sepulga..... b
NOGL	S. C. 102..... b	NUGV	Tippecanoe..... b
NOGM	S. C. 103..... b	NUGX	Trinity..... b
NOGQ	Nansamond..... b	NUJD	Abel P. Upshur..... b
NOJ	Destruction Island, Wash..... rg	NUJF	Hunt..... b
NOKN	S. C. 143..... b	NUJG	George E. Badger..... b
NOMD	S. C. 185..... b	NUJJ	Smith Thompson..... b
NOMN	S. C. 192..... b	NUJK	Barker..... b
NONN	S. C. 210..... b	NUJL	Tracy..... b
NOPF	S. C. 223..... b	NUJM	James K. Paulding..... b
NOPG	S. C. 224..... b	NUJP	Overton..... b
NOPN	S. C. 229..... b	NUJQ	Sturtevant..... b
NOPQ	S. C. 231..... b	NUJR	Henshaw..... b
NOTZ	S. C. 433..... b	NUJS	Meyer..... b
NOQQ	S. C. 437..... b	NUJT	Meyer..... b
NOBS	S. C. 271..... b	NUJV	La Vallette..... b
NOTR	S. C. 306..... b	NUJX	Shirk..... b
NOVG	Patriot..... b	NUJZ	Kidder..... b
NOVL	S. C. 326..... b	NUKB	Selfridge..... b
NOVN	S. C. 328..... b	NUKC	Robert Smith..... b
NOVQ	S. C. 330..... b	NUKD	Wasnuth..... b
NOXS	S. C. 353..... b	NUKF	Hulbert..... b
NOZJ	S. C. 412..... b	NUKX	Noa..... b
NPA	Cordova, Alaska, radio..... fc	NULJ	Humphreys..... b
NPB	Sitka, Alaska, radio..... fc	NULK	Welborn C. Wood..... b
NPC	Puget Sound, Wash..... fc	NULM	Alden..... b
NPD	Tatoosh, Wash..... rg	NULN	Borie..... b
NPE	Astoria, Oreg., radio..... fc	NULP	Kane..... b
NPF	Empire, Oreg..... rg	NULQ	Childs..... b
NPG	San Francisco, Calif. (Mare Island)..... fc, fx	NULR	King..... b
NPII	Hilo, Hawaii..... fc		Sands..... b
NPI	Farallon Islands, Calif..... rg		Sinclair..... b
NPK	Point Arguello, Calif..... rg		

GOVERNMENT LAND, RADIOBEACON, RADIO COMPASS, AND SHIP RADIO STATIONS,  
ALPHABETICALLY BY CALL SIGNALS—Continued

Call	Station	Call	Station
NULS	McCawley.....	NYW	Point St. George, Calif.....
NULT	Moody.....	NZO	Annapolis, Md. (laboratory).....
NULV	Sharkey.....	NZR	Fort Stevens, Oreg.....
NULX	Toucey.....	NZS	Klipsan Beach, Wash.....
NULZ	Breck.....	NZT	(Grand Marais, Mich.....
NUMB	Zellin.....	NZU	Whitefish Point, Mich.....
NUMC	Yarborough.....	NZV	Detour Point, Mich.....
NUMD	Sloat.....	NZW	Folly Island, S. C.....
NUMF	Wood.....	NZY	North Island, S. C.....
NUMG	Marcus.....	WAR	Quantico, Va. (Marine school).....
NUMJ	Mervine.....	WBP	Washington, D. C.....
NUMK	Chase.....	WEK	Key West, Fla.....
NUML	Mullany.....	WFT	Wichita, Kans.....
NUMM	Litchfield.....	WHZ	Spartanburg, S. C.....
NUMN	Zaue.....	WJI	Atlanta, Ga.....
NUMP	Trevor.....	WLX	Atka Island, Alaska.....
NUMQ	William B. Preston.....	WLY	Zamboanga, P. I. (Petit Barracks).....
NUMR	Lamson.....	WNI	Fort Monmouth, N. J. (Long Branch).....
NUMS	Dale.....	WNR	Moline, Ill.....
NUMT	Flusser.....	WPB	Richmond, Va.....
NUMU	Proble.....	WPO	Portland Lightship, Me.....
NUMV	Preston.....	WPS	Boston Lightship, Mass.....
NUMW	Reid.....	WPT	Pollock Rip Slue Lightship, Mass.....
NUMX	Whipple.....	WPW	Nantucket Shoals Lightship, Mass.....
NUMY	Werden.....	WPX	Relief Lightship No. 85.....
NUN	Stewart.....	WPZ	Relief Lightship No. 90.....
NUNB	Dobbin.....	WRA	Cornfield Point Lightship, Conn.....
NUNC	Williamson.....	WRB	Fire Island Lightship, N. Y.....
NUND	Reuben James.....	WRX	Barneget Lightship, N. J.....
NUNE	Isherwood.....	WRD	Kilkenny.....
NUNF	Case.....	WRE	North East End Lightship, N. J.....
NUNG	John D. Edwards.....	WRG	Five Pathom Bank Lightship, N. J.....
NUNH	Parrott.....	WRJ	Relief Lightship No. 78.....
NUNI	Lardner.....	WRN	Ambrose Channel Lightship, N. Y.....
NUNJ	Putnam.....	WRO	Poe Reef Lighthouse, Mich.....
NUNK	Pegot.....	WRS	Fenwick Island Shoal Lightship, Del.....
NUNL	Coghlan.....	WRV	Winter Quarter Shoals Lightship, Va.....
NUNM	Siegar.....	WRW	Chesapeake Lightship, Va.....
NUNN	Edsall.....	WRX	Diamond Shoals Lightship, N. C.....
NUNO	Hulmer.....	WRY	Greensboro, N. C.....
NUNP	Sirius.....	WRZ	Cape Lookout Shoals Lightship, N. C.....
NUNQ	Billingsley.....	WSD	Relief Lightship No. 80.....
NUNR	Charles Ausburne.....	WSG	Frying Pan Shoals Lightship, N. C.....
NUNS	Bruce.....	WSJ	La Crosse, Wis.....
NUNT	MacLeish.....	WSN	Brunswick Lightship, Ga.....
NUNU	Pruitt.....	WSP	Relief Lightship No. 109.....
NUNV	Simpson.....	WSR	Atlantic coast (portable).....
NUNW	McCormick.....	WST	Do.....
NUNX	Pope.....	WSU	Do.....
NUNY	Osborne.....	WSV	Dry Tortugas Light Station, Fla.....
NUNZ	Peary.....	WSW	Heald Bank Lightship, Tex.....
NV	Goff.....	WSX	South Pass Lightship, La.....
NVA	Pillsbury.....	WSZ	Boston, Mass.....
NVB	John D. Ford.....	WTA	Navassa Island Light Station, Wind- ward Islands (Windward Passage).....
NVC	Truxtun.....	WTB	Manila, P. I. (Fort Santiago-Luzon).....
NVD	Bainbridge.....	WTC	Fort Wint. P. I. (Grande Island).....
NVE	Hopkins.....	WTD	March Field, Calif.....
NVF	Paul Jones.....	WTDA	Fort Wayne, Mich. (Battle Creek).....
NVG	Barry.....	WTDB	Albatross II.....
NVH	Lawrence.....	WTDC	Brant.....
NVI	MacDonough.....	WTDD	Crane.....
NVJ	Perry.....	WTDE	Eider.....
NVK	Hull.....	WTDF	Teal.....
NVL	Decatur.....	WTDG	Scoter.....
NVM	Sumner.....	WTG	Kittiwake.....
NVN	Corry.....	WTH	Wrangell, Alaska.....
NVO	Melvin.....	WTI	Fort Brady, Mich. (Sault Ste. Marie).....
NVP	Spica.....	WTJ	Vancouver Barracks, Wash.....
NVQ	Procyon.....	WTN	Fort Shafter, Hawaii (Honolulu).....
NVR	Rigel.....	WTO	Fort Preble, Me.....
NVS	Altair.....	WTP	Fort Kamehameha, Hawaii (Hono- lulu).....
NVT	President.....	WTQ	Fort Ruger, Hawaii.....
NVU	Dorothy.....	WTR	Petersburg, Alaska.....
NVV	Petrel.....	WTS	Fort Rodman, Mass.....
NVW	Wolfcut.....		Denver, Colo. (Fitzsimons General Hospital).....
NVX	Soapstone Point, Alaska.....		
NVY	Barataria, La. (Grande Isle).....		
NVZ	Boston Bay RC group, Master Station, Deer Island, Mass.....		
NW	Unalaska, Alaska.....		

GOVERNMENT LAND, RADIOBEACON, RADIO COMPASS, AND SHIP RADIO STATIONS,  
ALPHABETICALLY BY CALL SIGNALS—Continued

Call	Station	Call	Station
WTU	Cordova, Alaska.....	fx	WWD St. George, Alaska (Pribilof Islands).....
WTV	Haines, Alaska.....	fx	WWDG Acacia.....
WTW	Fort Monmouth, N. J.....	fx	WWDH Amaranth.....
WTX	Fort McKinley, P. I. (Rizal).....	fx	WWDI Marigold.....
WTY	Camp Knox, Ky.....	fx	WWDK Hyacinth.....
WTZ	Fort Sill, Okla.....	fx	WWDL Sumac.....
WUA	Camp Devens, Mass.....	fx	WWDN Fern.....
WUAA	Cambrai.....	b	WDDO Cedar.....
WUAB	Somme.....	b	WDDQ Heather.....
WUAC	Meigs.....	b	WDDR Manzanita.....
WUAD	St. Mihiel.....	b	WWDS Rose.....
WUAF	Chateau Thierry.....	b	WWDU Lupine.....
WUAG	Grant.....	b	WWDV Sequoia.....
WUAH	Merritt.....	b	WWDX Kukui.....
WUAI	Thomas.....	b	WWE Pointe Fort Shoals, Mich.....
WUAJ	Dellwood.....	b	WWF Akiak, Alaska.....
WUAK	Kenowis.....	b	WFF Seal.....
WUB	Fort Hancock, N. J. (Highland Beach).....	fx	WFG Cheboygan Range, Mich.....
WUC	Fort H. G. Wright, N. Y.....	fx	WWH Standard Rock Light Station, Mich.....
WUD	Fort Eustis, Va.....	fx	WWLH General call for all Bureau of Light- houses stations.....
WUE	Fort Frank, P. I. (Carabao Island).....	fx	WWM Marquette Light Station, Mich.....
WUF	Fort Monroe, Va.....	fx	WWN Detroit River Light Station, Mich.....
WUG	Camp Marfa, Tex.....	fx	WVO Cleveland, Ohio.....
WUH	Fort McIntosh (Laredo), Tex.....	fx	WWP Savoonga, Alaska (St. Lawrence Island).....
WUI	Fort Riley, Kans.....	fx	WWQ Bellefonte, Pa.....
WUJ	Fort Lewis, Wash.....	fx	WWR Detroit Lighthouse Depot, Mich.....
WUK	Fort George G. Meade, Md.....	fx	WWT Aognak, Alaska.....
WUL	Fort Totien, N. Y.....	fx	WVU New Brunswick, N. J. (Hadley Field).....
WUM	Tucson, Ariz.....	fa, fx	WVV Washington, D. C. (Bureau of Stand- ards radio laboratory).....
WUN	Aberdeen Proving Grounds, Md.....	fx	WVX Washington, D. C.....
WUO	Fort Benning, Ga. (Columbus).....	fx	WVY Pittsburg, Pa. (portable).....
WUP	Fort Mills, P. I. (Corregidor Island).....	fx	WVZ Lansing Shoal Lightship, Mich.....
WUQ	Yuma, Ariz.....	fa, fx	WXA Juneau, Alaska.....
WUR	Camp McClellan, Ala. (Anniston).....	fx	WXB Point Barrow, Alaska.....
WUS	Fort Oglethorpe, Ga.....	fx	WXC Sitka, Alaska.....
WUT	Fort Story, Va.....	fx	WXD Circle, Alaska.....
WUU	Fort Adams, R. I. (Newport).....	fx	WXF Livenood, Alaska.....
WUV	Fort Thomas, Ky.....	fx	WYG Wiseman, Alaska.....
WUW	West Point, N. Y.....	fx	WXH Ketchikan, Alaska.....
WUX	Fort Ethan Allen, Vt. (Essex Junc- tion).....	fx	WXI Bethel, Alaska.....
WUY	Fort Crockett, Tex. (Galveston).....	fa, fx	WXJ Valdez, Alaska Radio.....
WUZ	Fort Brown, Tex. (Brownsville).....	fx	WXK Hot Springs, Alaska.....
WVB	Fort Sam Houston, Tex. (San Anto- nio).....	fx	WXL Iditarod, Alaska.....
WVC	Fort Leavenworth, Kans.....	fx	WXM Holy Cross, Alaska.....
WVD	Seattle, Wash.....	fx	WXX Fortuna Ledge, Alaska.....
WVL	Quarry Heights, Canal Zone.....	fx	WYO Craig, Alaska.....
WVN	Tientsin, China.....	fx	WXP Fairbanks, Alaska.....
WVO	Boston, Mass.....	fx	WXQ Fort Egbert, Alaska.....
WVP	Governors Island, N. Y.....	fx	WXR Seward, Alaska Radio.....
WVQ	Fort Howard, Md. (Baltimore).....	fx	WXS Fort Gibbon, Alaska (Tenana).....
WVR	Fort McPherson, Ga.....	fx	WXT Fort St. Michael, Alaska.....
WVS	Fort Benjamin Harrison, Ind.....	fx	WXU Ruby, Alaska.....
WVT	Chicago, Ill.....	fx	WVV Tacotna, Alaska.....
WVU	Fort Omaha, Nebr.....	fx	WVW Kotzebue, Alaska.....
WVV	Jefferson Barracks, Mo. (St. Louis).....	fx	WVX Fort Yukon, Alaska.....
WVW	Fort D. A. Russell, Wyo.....	fx	WVY Nome, Alaska Radio.....
WVX	Fort Douglas, Utah (Salt Lake City).....	fx	WVZ Nulato, Alaska.....
WVY	San Francisco, Calif. (Presidio of San Francisco).....	fx	WYA Mitchell Field, N. Y. (Mineola, L. I.).....
WVZ	Fort Hayes, Ohio (Columbus).....	fx	WYAA General Royal T. Frank.....
WVA	Radio Test Car No. 1 (portable).....	fx	WYAB General John M. Schofield.....
WVAA	Hibiscus.....	b	WYAC Joseph Henry.....
WVAB	Ilex.....	b	WYAF General Edward O. C. Ord.....
WVAC	Anemone.....	b	WYAG Colonel George Armistead.....
WVAD	Azalea.....	b	WYAH General Robert Anderson.....
WVAE	Lotus.....	b	WYAI General George H. Weeks.....
WVAF	Tulip.....	b	WYAJ Miley.....
WVAG	Larkspur.....	b	WYAK General G. W. Getty.....
WVAH	Spruce.....	b	WYAM Captain James Farnance.....
WVAI	Maple.....	b	WYAN Reno.....
WVAJ	Orcid.....	b	WYAO Major Evan Thomas.....
WVAK	Mayflower.....	b	WYAR General R. N. Batchelder.....
WVAM	Speedwell.....	b	WYAT General Miffin.....
WVAN	Cypress.....	b	WYAU San Pedro.....
WVAP	Mangrove.....	b	WYAV Slocum.....
WVAQ	Ivy.....	b	WYAY General Richard Arnold.....
WVAT	Magnolia.....	b	
WVAU	Sunflower.....	b	
WVAV			
WVAY			

GOVERNMENT LAND, RADIOBEACON, RADIO COMPASS, AND SHIP RADIO STATIONS,  
ALPHABETICALLY BY CALL SIGNALS—Continued

Call	Station	Call	Station
WYB	Bolling Field, D. C. (Anacostia) . . . fa, fx	WYH	Rockwell Field, Calif. (Coronado) . . . fa, fx
WYBA	General Absalom Baird . . . b	WYI	Burgess Field, Pa. (Uniontown) . . . fa, fx
WYBB	General J. Franklin Bell . . . b	WYJ	Chanute Field, Ill. (Rantouil) . . . fa, fx
WYBC	San Pablo . . . b	WYK	Maxwell Field, Ala. . . . . fx
WYBD	General William M. Graham . . . b	WYL	Cumberland Field, Md. (Cumber- land) . . . . . fa, fx
WYBE	Colonel George F. E. Harrison . . . b	WYN	Hat Box Field, Okla. (Muskogee) . . . fa, fx
WYBP	Capt. Edward P. Nones . . . b	WYO	Love Field, Tex. (Dallas) . . . . . fa, fx
WYBS	Lt. Col. Herman C. Schumm . . . b	WYP	France Field, Canal Zone (Cristobal) . . . . . fa, fx
WYBV	Major Albert C. Jenkins . . . b	WYQ	Luke Field, Hawaii (Pearl Harbor) . . . . . fa, fx
WYBW	Major William P. Pence, jr . . . b	WYR	Kindley Field, P. I. (Corregidor Island) . . . . . fa, fx
WYBY	Captain Clarence M. Condon . . . b	WYS	Clark Field, P. I. (Camp Stotsen- burg) . . . . . fa, fx
WYBZ	Langley Field, Va. (Hampton) . . . fa, fx	WYT	Camp Nichols, P. I. (Rizal) . . . . . fa, fx
WYCA	Cuba . . . . . b	WYU	Middletown, Pa. . . . . fa, fx
WYCB	Inspector . . . . . b	WYW	Bowman Field, Ky. (Louisville) . . . fa, fx
WYCC	Jupiter . . . . . b	WYX	Wheeler Field, Hawaii (Oahu) . . . fa, fx
WYCD	Saturn . . . . . b	WYY	Dryden, Tex. . . . . fa, fx
WYCE	Gamma . . . . . b	WYZ	Lordsburg, N. Mex. . . . . fa, fx
WYCF	Iota . . . . . b	WZA	Grunder, Alaska . . . . . fx
WYCG	Kappa . . . . . b	WZB	Fort Clark, Tex. (Brackettsville) . . . fx
WYCH	Henry Flad . . . . . b	WZC	Skaerway, Alaska . . . . . fx
WYCI	B. M. Harrod . . . . . b	WZD	Fort Burrenca, Fla. . . . . fx
WYCK	West Memphis . . . . . b	WZE	Dillingham Alaska . . . . . fx
WYCL	John Ewens . . . . . b	WZF	Squaw Harbor, Alaska Radio (Unga Island) . . . . . fx
WYCM	Culebra . . . . . b	WZG	Fort Bragg, N. C. (Fayetteville) . . . fx
WYCN	F. H. Hilliard . . . . . b	WZII	Los Angeles, Calif. . . . . fx
WYCO	A. Mackenzie . . . . . b	WZI	Fort Ringold, Tex. . . . . fx
WYCP	W. L. Marshall . . . . . b	WZJ	Schofield Barracks, Hawaii . . . . . fx
WYCQ	Dan C. Kingman . . . . . b	WZK	St. Louis, Mo. . . . . fx
WYCR	Wm. T. Rossell . . . . . b	WZL	Camp Stephen D. Little, Ariz. . . . . fx
WYCS	Morgan-Lewis . . . . . b	WZM	Camp Harry J. Jones, Ariz. (Douglas) . . . fx
WYCT	Sprigg Carroll . . . . . b	WZN	Camp Stotsenburg, P. I. . . . . fx
WYCU	Mississippi . . . . . b	WZO	Fort Bliss, Tex. (El Paso) . . . . . fx
WYCV	Aldebaran . . . . . b	WZP	Fort Huachuca, Ariz. . . . . fx
WYCW	Omega . . . . . b	WZQ	Fort John Hay, P. I. . . . . fx
WYCX	Il. S. Taber . . . . . b	WZS	Fort Snelling, Minn. . . . . fx
WYCY	Willetts Point . . . . . b	WZT	Fort Des Moines, Iowa (Des Moines) . . . fx
WYCZ	Tuscumbia . . . . . b	WZU	Fort Sherman, Canal Zone . . . . . fx
WYD	Griffith . . . . . b	WZV	Fort Randolph, Canal Zone . . . . . fx
WYDD	Dayton, Ohio . . . . . fa, fx	WZW	Fort McArthur, Calif. . . . . fx
WYDC	Tecumseh . . . . . b	WZZ	Fort Grant, Canal Zone . . . . . fx
WYDE	Fort Gage . . . . . b		Crissy Field (Presidio of San Fran- cisco), Calif. . . . . fa, fx
WYDF	Fort Chartres . . . . . b		
WYDG	Barnard . . . . . b		
WYDI	Gouverneur . . . . . b		
WYDH	Selfridge Field, Mich. (Mount Clemens) . . . . . fa, fx		
WYDI	Scott Field, Ill. (Belleville) . . . . . fa, fx		
WYDII	Kelly Field, Tex. (San Antonio) . . . . . fx		



# GOVERNMENT AIRCRAFT STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Station	Call signal	Frequency in kilocycles (meters in parentheses)	Hours	Owner
				<b>U. S. Navy.</b>
(U. S. S.) Arizona—any aircraft attached to.....	NVMGY			Do.
(U. S. S.) Arkansas—any aircraft attached to.....	NVMHL			Do.
(U. S. S.) California—any aircraft attached to.....	NVMBC			Do.
(U. S. S.) Cincinnati—any aircraft attached to.....	NVMAC			Do.
(U. S. S.) Colorado—any aircraft attached to.....	NVMFA			Do.
(U. S. S.) Concord—any aircraft attached to.....	NVMDK			Do.
(U. S. S.) Detroit—any aircraft attached to.....	NVMKS			Do.
Eighth naval district—any aircraft attached to.....	NVMGJ			Do.
Eleventh naval district—any aircraft attached to.....	NVMGL			Do.
Fifteenth naval district—any aircraft attached to.....	NVMGN			Do.
Fifth naval district—any aircraft attached to.....	NVMGD			Do.
First naval district—any aircraft attached to.....	NVMGA			Do.
(U. S. S.) Florida—any aircraft attached to.....	NVMOT			Do.
Fourth naval district—any aircraft attached to.....	NVMGC			Do.
Fourteenth naval district—any aircraft attached to.....	NVMGQ			Do.
Guam naval district—any aircraft attached to.....	NVMGS			Do.
Guantanamo naval district—any aircraft attached to.....	NVMGT			Do.
(U. S. S.) Idaho—any aircraft attached to.....	NVMCH			Do.
J-3 (nonrigid airship).....	NZNT			Do.
J-4 (nonrigid airship).....	NZNF			Do.
(U. S. S.) Jason—any aircraft attached to.....	NVMAD			Do.
(U. S. S.) Langley—any aircraft attached to.....	NVMVR			Do.
(U. S. S.) Lexington—any aircraft attached to.....	NVMPO			Do.
Los Angeles (rigid airship).....	NZRLA			Do.
(U. S. S.) Marblehead—any aircraft attached to.....	NVMDF			Do.
(U. S. S.) Maryland—any aircraft attached to.....	NVMDJ			Do.
(U. S. S.) Medusa—any aircraft attached to.....	NVMWM			Do.
(U. S. S.) Memphis—any aircraft attached to.....	NVMFL			Do.
(U. S. S.) Milwaukee—any aircraft attached to.....	NVMWB			Do.
(U. S. S.) Mississippi—any aircraft attached to.....	NVMHD			Do.
(U. S. S.) Nevada—any aircraft attached to.....	NVMJK			Do.
(U. S. S.) New Mexico—any aircraft attached to.....	NVMKL			Do.
(U. S. S.) New York—any aircraft attached to.....	NVMGK			Do.
Ninth naval district—any aircraft attached to.....	NVMBF			Do.
(U. S. S.) Oklahoma—any aircraft attached to.....	NVMQG			Do.
(U. S. S.) Omaha—any aircraft attached to.....	NVMHB			Do.
(U. S. S.) Patoka—any aircraft attached to.....	NVMVC			Do.
(U. S. S.) Raleigh—any aircraft attached to.....	NVMNS			Do.
(U. S. S.) Richmond—any aircraft attached to.....	NVMUF			Do.
(U. S. S.) Saratoga—any aircraft attached to.....	NVMGH			Do.
Seventh naval district—any aircraft attached to.....	NVMGR			Do.
Sixteenth naval district—any aircraft attached to.....	NVMQF			Do.
Sixth naval district—any aircraft attached to.....	NVMLN			Do.
(U. S. S.) Tennessee—any aircraft attached to.....	NVMAB			Do.
(U. S. S.) Texas—any aircraft attached to.....	NVMGP			Do.
Third naval district—any aircraft attached to.....	NVMGB			Do.
Thirteenth naval district—any aircraft attached to.....	NVMXA			Do.
(U. S. S.) Trenton—any aircraft attached to.....	NVMGM			Do.
Twelfth naval district—any aircraft attached to.....	NVMVP			Do.
(U. S. S.) Utah—any aircraft attached to.....	NVMNP			Do.
(U. S. S.) West Virginia—any aircraft attached to.....	NVMND			Do.
(U. S. S.) Wright—any aircraft attached to.....	NVMKN			Do.
(U. S. S.) Wyoming—any aircraft attached to.....				Do.

## GOVERNMENT AIRCRAFT STATIONS, ALPHABETICALLY BY CALL SIGNALS

Call signal	Name	Call signal	Name
NVMAB	(U. S. S.) Texas—any aircraft attached to.	NVMGT	Guantanamo naval district—any aircraft attached to.
NVMAC	(U. S. S.) Cincinnati—any aircraft attached to.	NVMGY	(U. S. S.) Arizona—any aircraft attached to.
NVMAD	(U. S. S.) Jason—any aircraft attached to.	NVMHB	(U. S. S.) Patoka—any aircraft attached to.
NVMBC	(U. S. S.) California—any aircraft attached to.	NVMHC	(U. S. S.) Nevada—any aircraft attached to.
NVMBF	(U. S. S.) Oklahoma—any aircraft attached to.	NVMHD	(U. S. S.) Mississippi—any aircraft attached to.
NVMCH	(U. S. S.) Idaho—any aircraft attached to.	NVMHL	(U. S. S.) Arkansas—any aircraft attached to.
NVMDF	(U. S. S.) Marblehead—any aircraft attached to.	NVMJK	(U. S. S.) New Mexico—any aircraft attached to.
NVMDJ	(U. S. S.) Maryland—any aircraft attached to.	NVMKL	(U. S. S.) New York—any aircraft attached to.
NVMDK	(U. S. S.) Concord—any aircraft attached to.	NVMKN	(U. S. S.) Wyoming—any aircraft attached to.
NVMFA	(U. S. S.) Colorado—any aircraft attached to.	NVMKS	(U. S. S.) Detroit—any aircraft attached to.
NVMFL	(U. S. S.) Memphis—any aircraft attached to.	NVMLN	(U. S. S.) Tennessee—any aircraft attached to.
NVMGA	First naval district—any aircraft attached to.	NVMND	(U. S. S.) Wright—any aircraft attached to.
NVMGB	Third naval district—any aircraft attached to.	NVMNP	(U. S. S.) West Virginia—any aircraft attached to.
NVMGC	Fourth naval district—any aircraft attached to.	NVMNS	(U. S. S.) Richmond—any aircraft attached to.
NVMGD	Fifth naval district—any aircraft attached to.	NVMOT	(U. S. S.) Florida—any aircraft attached to.
NVMGF	Sixth naval district—any aircraft attached to.	NVMPO	(U. S. S.) Lexington—any aircraft attached to.
NVMGH	Seventh naval district—any aircraft attached to.	NVMQG	(U. S. S.) Omaha—any aircraft attached to.
NVMGJ	Eighth naval district—any aircraft attached to.	NVMUF	(U. S. S.) Saratoga—any aircraft attached to.
NVMGK	Ninth naval district—any aircraft attached to.	NVMVC	(U. S. S.) Raleigh—any aircraft attached to.
NVMGL	Eleventh naval district—any aircraft attached to.	NVMVP	(U. S. S.) Utah—any aircraft attached to.
NVMGM	Twelfth naval district—any aircraft attached to.	NVMVR	(U. S. S.) Langley—any aircraft attached to.
NVMGN	Fifteenth naval district—any aircraft attached to.	NVMWB	(U. S. S.) Milwaukee—any aircraft attached to.
NVMGP	Thirteenth naval district—any aircraft attached to.	NVMWM	(U. S. S.) Medusa—any aircraft attached to.
NVMGQ	Fourteenth naval district—any aircraft attached to.	NVMXA	(U. S. S.) Trenton—any aircraft attached to.
NVMGR	Sixteenth naval district—any aircraft attached to.	NZNJF	J-4, (nonrigid airship).
NVMGS	Guam naval district—any aircraft attached to.	NZNJT	J-3, (nonrigid airship).
		NZRLA	Los Angeles, (rigid airship).

## RADIOBEACONS ARRANGED GEOGRAPHICALLY

Radiobeacons are operated continuously during thick or foggy weather and daily in clear weather, as noted, local standard time. Unless otherwise stated the signals are transmitted at 180-second intervals.

Only where call letters are given does the station maintain radio communication, operator standing watch on a frequency of 500 kilocycles (600 meters), at periods stated. Such stations will transmit signals for reasonable additional periods on request.

### ATLANTIC COAST

PORTLAND LIGHTSHIP, Me., lat. 43° 31' N., long. 70° 05' W. Transmits groups of 1 dash, 1 dot, and 1 dash, thus—

. . . . . etc. 60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 5.30 to 6 and 11.30 to 12 a. m. and p. m., on 290 kc. (1,034 m.).

BOSTON LIGHTSHIP, Mass., lat. 42° 20' N., long. 70° 45' W. Transmits groups of 2 dashes and 2 dots, thus—

. . . . . etc. 60 seconds	Silent 120 seconds
------------------------------	-----------------------

Transmits daily in clear weather from 2.30 to 3 and 8.30 to 9 a. m. and p. m. on 300 kc. (1,000 m.).

CAPE COD CANAL LIGHTHOUSE, Mass., lat. 41° 47' N., long. 70° 29' W. Transmits groups of 2 dots and 1 dash, thus—

. . . . . etc. 60 seconds	Silent 120 seconds
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Operates only during fog on 300 kc. (1,000 m.).

POLLOCK RIP LIGHTSHIP, Mass., lat. 41° 36' N., long. 69° 51' W. Transmits groups of 1 dash, 2 dots and 1 dash, thus—

. . . . . etc. 60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 3.30 to 4 and 9.30 to 10 a. m. and p. m. on 290 kc. (1,034 m.).

VINEYARD SOUND LIGHTSHIP, Mass., lat. 41° 23' N., long. 71° 00' W. Transmits groups of 1 dot and 2 dashes, thus—

. . . . . etc. 60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 4.30 to 5 and 10.30 to 11 a. m. and p. m. on 300 kc. (1,000 m.).

NANTUCKET SHOALS LIGHTSHIP, Mass., lat. 40° 37' N., long. 69° 37' W. Transmits groups of 4 dashes, thus—

. . . . . etc. 60 seconds	Silent 120 seconds
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Transmits in clear weather for the second 15 minutes of each hour on 310 kc. (968 m.).

Radio operator stands watch for the first 15 minutes of each hour from 8 a. m. to 10.15 p. m. in clear weather. Call WPS.

NOTE.—First dash of radiobeacon and first blast of oscillator sounded simultaneously; vessels may determine their distance, in yards, from lightship by multiplying the number of seconds intervening between reception of radio dash and oscillator blast by 1,600.

LITTLE GULL LIGHT STATION, N. Y., lat. 41° 13' N., long. 72° 07' W. Transmits groups of 1 dot and 3 dashes, thus—

. . . . . etc.	Silent
60 seconds	15 seconds

Transmits daily in clear weather from 11 p. m. to 1 a. m., and from 12 noon to 12.30 p. m. on 290 kc. (1,034 m.).

STRATFORD SHOAL LIGHT STATION, N. Y., lat. 41° 03' N., long. 73° 06' W. Transmits groups of 1 dot, 2 dashes, and 1 dot, thus—

. . . . . etc.	Silent
60 seconds	30 seconds

Transmits daily in clear weather from 2 to 3.30 a. m., 12 noon to 12.30 p. m., and from 8 to 10 p. m. on 290 kc. (1,034 m.).

EXECUTION ROCKS LIGHT STATION, N. Y., lat. 40° 53' N., long. 73° 44' W. Transmits groups of 1 dash, 1 dot, and 1 dash, thus—

- - - . . . etc.	Silent
60 seconds	15 seconds

Transmits daily in clear weather from 5 to 6.30 a. m., from 12 noon to 12.30 p. m., and from 6.30 to 7.30 p. m. on 290 kc. (1,034 m.).

FIRE ISLAND LIGHTSHIP, N. Y., lat. 40° 28' N., long. 73° 11' W. Transmits groups of 2 dashes, thus—

- - - - - etc.	Silent
60 seconds	120 seconds

Transmits daily in clear weather from 5.30 to 6 and 11.30 to 12 a. m. and p. m. on 300 kc. (1,000 m.).

Radio operator stands watch for the first 15 minutes of each hour from 8 a. m. to 9.15 p. m. in clear weather. Call WPZ.

AMBROSE CHANNEL LIGHTSHIP, N. Y., lat. 40° 28' N., long. 73° 50' W. Transmits single dots, thus—

. . . . . etc.	Silent
60 seconds	120 seconds

Transmits daily in clear weather from 3.30 to 4 and 9.30 to 10 a. m. and p. m. on 300 kc. (1,000 m.).

Radio operator stands watch for the first 15 minutes of each hour from 8 a. m. to 9.15 p. m. in clear weather. Call WRG.

BARNEGAT LIGHTSHIP, N. J., lat. 39° 46' N., long. 73° 56' W. Transmits groups of 3 dashes, thus—

- - - - - etc.	Silent
60 seconds	120 seconds

Transmits daily in clear weather from 12.30 to 1 and 6.30 to 7 a. m. and p. m. on 300 kc. (1,000 m.).

FIVE-FATHOM BANK LIGHTSHIP, N. J., lat. 38° 47' N., long. 74° 34' W. Transmits groups of 2 dots and 2 dashes, thus—

. . . . . etc.	Silent
60 seconds	120 seconds

Transmits daily in clear weather from 12.15 to 12.30, 3.15 to 3.30, 6.15 to 6.30, and 9.15 to 9.30 a. m. and p. m. on 290 kc. (1,034 m.).

Radio operator stands watch for the first 15 minutes of each hour from 8 a. m. to 9.15 p. m. in clear weather only. Call WRE.

WINTER QUARTER SHOAL LIGHTSHIP, Va., lat. 37° 55' N., long. 74° 56' W. Transmits groups of 3 dashes and 1 dot, thus—

- - - . - - - . etc.	Silent
60 seconds	120 seconds

Transmits during clear weather from 12 to 12.30 and 6 to 6.30 a. m. and p. m. on 300 kc. (1,000 m.).

Radio operator stands watch for the first 15 minutes of each hour from 8 a. m. to 9.15 p. m. in clear weather. Call WRO.



CHESAPEAKE LIGHTSHIP, Va., lat. 37° 05' N., long. 75° 41' W. Transmits groups of 1 dot, 2 dashes, and 1 dot, thus—

. — — . — — . etc.	Silent
60 seconds	120 seconds

Transmits daily in clear weather from 1 to 1.30 and 7 to 7.30 a. m. and p. m. on 285 kc. (1,053 m.).

Radio operator stands watch for the first 15 minutes of each hour from 8 a. m. to 9.15 p. m. Call WRS.

CAPE HENRY LIGHT STATION, Va., lat. 36° 55½' N., long. 76° 00½' W. Transmits groups of 1 dash, 1 dot and 1 dash, thus—

— . — — . — — etc.	Silent
60 seconds	120 seconds

Transmits daily in clear weather from 2 to 2.30 and 8 to 8.30 a. m. and p. m. on 305 kc. (1,053 m.).

NOTE.—The first dash of the radiobeacon and the blast of the oscillator following the 3-second silent interval are sounded simultaneously. Navigators may determine their distance in nautical miles from the lighthouse by dividing the number of seconds intervening between the reception of the radio dash and the blast of the air oscillator fog signal by 5.5.

COVE POINT LIGHT STATION, Md., lat. 38° 23' N., long. 76° 23' W. Transmits groups of 1 dot and 2 dashes, thus—

. — — . — — etc.	Silent
60 seconds	120 seconds

Transmits daily in clear weather from 5 to 5.30 and 11 to 11.30 a. m. and p. m. on 305 kc. (984 m.).

SMITH POINT LIGHTHOUSE, Va., lat. 37° 53' N., long. 76° 11' W. Transmits groups of 1 dash, 2 dots and 1 dash, thus—

— . . — — . . — — etc.	Silent
60 seconds	120 seconds

Transmits daily in clear weather from 4 to 4.30 and 10 to 10.30 a. m. and p. m. on 305 kc. (984 m.).

DIAMOND SHOAL LIGHTSHIP, N. C., lat. 35° 05' N., long. 75° 19' W. Transmits groups of 2 dashes and 1 dot, thus—

— — . — — . etc.	Silent
60 seconds	120 seconds

Transmits daily in clear weather the third 15 minutes of each hour on 300 kc. (1,000 m.).

Radio operator stands watch for the first 15 minutes of each hour from 8 a. m. to 9.15 p. m. in clear weather. Call WRV.

CAPE LOOKOUT SHOALS LIGHTSHIP, N. C., lat. 34° 18' N., long. 76° 24' W. Transmits only on request on 290 kc. (1,034 m.), groups of 1 dot, 1 dash, a dot, and 1 dash, thus—

. — . — . — . — . — . — . — . etc.	Silent
60 seconds	120 seconds

Radio operator stands watch for the first 15 minutes of each hour from 8 a. m. to 9.15 p. m.

FRYING PAN SHOALS LIGHTSHIP, N. C., lat. 33° 34' N., long. 77° 49' W. Transmits only on request on 310 kc. (968 m.), groups of 2 dashes, thus—

— — — — — — — — — — etc.	Silent
60 seconds	120 seconds

Call WSD.

ST. JOHNS RIVER LIGHT STATION, Fla., lat. 30° 24' N., Long. 81° 26' W. Transmits groups of 1 dash, 1 dot, 1 dash, thus—

— . — — — . — — etc.	Silent
60 seconds	120 seconds

Transmits during the fourth 15 minutes of each hour only on 285 kc. (1,053m.).

JUPITER INLET LIGHT STATION, Fla., lat. 26° 57' N., long. 80° 05'. Transmits groups of 1 dot and 3 dashes, thus—

. . . . . etc. 60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 12 to 12.15, 3 to 3.15, 6 to 6.15 and 9 to 9.15 a. m. and p. m. on 290 kc. (1,034.).

### GULF COAST

DRY TORTUGAS LIGHT STATION, Fla., lat. 24° 38' N., long. 82° 56' W. Transmits groups of 3 dashes, thus—

- - - - - etc. 60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 2 to 2.15, 5 to 5.15, 8 to 8.15 and 11 to 11.15 a. m. and p. m. on 300 kc. (1,000 m.).

SAND ISLAND LIGHTHOUSE, Ala., lat. 30° 11' N., long. 88° 03' W. Transmits groups of 1 dot, 1 dash and 1 dot, thus—

. . . . . etc. 60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 5 to 5.30 and 11 to 11.30 a. m. and p. m. Ninetieth meridian time on 300 kc. (1,000 m.).

SOUTH PASS WEST JETTY RANGE FRONT LIGHT STATION, La., lat. 28° 59' N., long. 89° 08' W. Transmits groups of 2 dashes, thus—

- - - - - etc. 60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 12.30 to 1, 3.30 to 4, 6.30 to 7 and 9.30 to 10 a. m. and p. m., ninetieth meridian time on 310 kc. (968 m.).

SABINE PASS LIGHTHOUSE, La., lat. 29° 43' N., long. 93° 51' W. Transmits groups of 2 dashes and 1 dot, thus—

- - . - - . etc. 60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 1.30 to 2 and 7.30 to 8 a. m. and p. m. ninetieth meridian time, 305 kc. (984 m.).

GALVESTON JETTY LIGHT STATION, Tex., lat. 29° 19' N., long. 94° 41' W. Transmits groups of 1 dash, 2 dots and 1 dash, thus—

- . . - - . . etc. 60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 12 to 12.30 and 6 to 6.30 a. m. and p. m. on 290 kc. (1,034m.).

ARANSAS PASS LIGHTHOUSE, Tex., lat. 27° 52' N., long. 97° 03' W. Transmits groups of 1 dash, 1 dot and 1 dash, thus—

- . - - - . etc. 60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 2.30 to 2.45, 5.30 to 5.45, 8.30 to 8.45 and 11.30 to 11.45 a. m. and p. m. on 300 kc. (1,000m.).

### GREAT LAKES

BUFFALO LIGHT STATION, N. Y., lat. 42° 52' N., long. 78° 54' W. Transmits groups of four dashes, thus—

- - - - - etc. 60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 11.45 to noon, 1.30 to 2 and 7.30 to 8 a. m. and p. m. on 294 kc. (1,020 m.). Ninetieth meridian time.

ASHTABULA LIGHTHOUSE, Ohio, lat. 41° 55' N., long., 80° 48' W. Transmits groups of 2 dashes and 1 dot, thus—

— . . . . . etc. Silent  
 60 seconds 120 seconds

Transmits daily in clear weather from 11.45 to noon, 3.30 to 4 and 9.30 to 10 a. m. and p. m. on 314 kc. (955 m.). Ninetieth meridian time.

DETROIT RIVER LIGHT STATION, Mich., lat. 42° 00' N., long. 83° 08' W. Transmits groups of 2 dashes, thus—

— — — — — etc. Silent  
 60 seconds 120 seconds

Transmits daily in clear weather from 11.45 to noon, 4 to 4.30 and 10 to 10.30 a. m. and p. m. on 306 kc. (980 m.). Ninetieth meridian time.

LAKE HURON LIGHTSHIP, Mich., lat. 43° 03' N., long. 82° 25' W. Transmits groups of 3 dashes, thus—

— — — — — etc. Silent  
 60 seconds 120 seconds

Transmits daily in clear weather from 11.45 to noon, 2 to 2.30 and 8 to 8.30 a. m. and p. m. on 306 kc. (980 m.). Ninetieth meridian time.

THUNDER BAY ISLAND LIGHT STATION, Mich., lat. 45° 02' N., long. 83° 11' W. Transmits groups of 1 dash, 1 dot and 1 dash, thus—

— . . . . . etc. Silent  
 60 seconds 120 seconds

Transmits daily in clear weather from 11.45 to noon, 4 to 4.30 and 10 to 10.30 a. m. and p. m. on 286 kc. (1,049 m.). Ninetieth meridian time.

DETOUR LIGHT STATION, Mich., lat. 45° 57' N., long. 83° 55' W. Transmits groups of 4 dashes, thus—

— — — — — etc. Silent  
 60 seconds 120 seconds

Transmits daily in clear weather from 11.45 to noon, 2.30 to 3 and 8.30 to 9 a. m. and p. m. on 286 kc. (1,049 m.). Ninetieth meridian time.

WHITEFISH POINT LIGHT STATION, Mich., lat. 46° 46' N., long. 84° 57' W. Transmits three dashes and 1 dot, thus—

— . . . . . etc. Silent  
 60 seconds 120 seconds

Transmits daily in clear weather from 11.45 to noon, 3.30 to 4 and 9.30 to 10 a. m. and p. m. on 286 kc. (1,049 m.).

LUDINGTON NORTH BREAKWATER LIGHT STATION, Mich., lat. 43° 57' N., long. 86° 28' W. Transmits groups of 4 dashes, thus—

— — — — — etc. Silent  
 60 seconds 120 seconds

Transmits daily in clear weather from 11.45 to noon, 3 to 3.30 and 9 to 9.30 a. m. and p. m. on 302 kc. (993 m.).

GRAND HAVEN PIERHEAD RANGE FRONT LIGHT STATION, Mich., lat. 43° 03' N., long. 86° 15' W. Transmits groups of 1 dot and 3 dashes, thus—

. . . . . etc. Silent  
 60 seconds 120 seconds

Transmits daily in clear weather from 11.45 to noon, 3.30 to 4 and 9.30 to 10 a. m. and p. m. on 302 kc. (993 m.).

CALUMET HARBOR LIGHT STATION, Ill., lat. 41° 44' N., long. 87° 30' W. Transmits groups of 1 dash, 1 dot, and 1 dash, thus—

— . . . . . etc. Silent  
 60 seconds 120 seconds

Transmits daily in clear weather for last 15 minutes of every hour during navigation season on 286 kc. (1,049 m.).

CHICAGO HARBOR LIGHT STATION, Ill., lat. 41° 54' N., long. 87° 36' W. Transmits groups of 1 dot, 1 dash, 1 dot, and 1 dash, thus—

. — . — . — . — etc.  
60 seconds

Silent  
120 seconds

Transmits daily in clear weather from 11.45 to noon, 2.30 to 3 and 8.30 to 9 a. m. and p. m. on 286 kc. (1,049 m.).

MILWAUKEE BREAKWATER LIGHT STATION, Wis., lat. 43° 01' N., long. 87° 53' W. Transmits groups of 2 dashes, thus—

— — — — — etc.  
60 seconds

Silent  
120 seconds

Transmits daily in clear weather from 11.45 to noon, 1.30 to 2 and 7.30 to 8 a. m. and p. m. on 286 kc. (1,049 m.).

MANITOWOC BREAKWATER LIGHT STATION, Wis., lat. 44° 05' N., long. 87° 38' W. Transmits groups of 3 dashes, thus—

— — — — — etc.  
60 seconds

Silent  
120 seconds

Transmits daily in clear weather from 11.45 to noon, 1 to 1.30 and 7 to 7.30 a. m. and p. m. on 302 kc. (993 m.).

MARQUETTE LIGHT STATION, Mich., lat. 46° 33' N., long. 87° 23' W. Transmits groups of 1 dot and 2 dashes, thus—

. — — — — etc.  
60 seconds

Silent  
120 seconds

Transmits daily in clear weather from 11.45 to noon, 1 to 1.30 and 7 to 7.30 a. m. and p. m. on 302 kc. (993 m.).

MANITOU LIGHT STATION, Mich., lat. 47° 25' N. long. 87° 35' W. Transmits groups of 2 dashes, thus—

— — — — — etc.  
60 seconds

Silent  
120 seconds

Transmits daily in clear weather from 11.45 to noon, 2.30 to 3 and 8.30 to 9 a. m. and p. m. on 302 kc. (993 m.).

LA POINTE LIGHT STATION, Wis., lat. 46° 44' N., long. 90° 47' W. Transmits groups of 4 dashes, thus—

— — — — — etc.  
60 seconds

Silent  
120 seconds

Transmits daily in clear weather from 11.45 to noon, 3.30 to 4 and 9.30 to 10 a. m. and p. m. on 314 kc. (955 m.).

DEVILS ISLAND LIGHT STATION, Wis., lat. 47° 05' N., long. 90° 43' W. Transmits groups of 3 dashes, thus—

— — — — — etc.  
60 seconds

Silent  
120 seconds

Transmits daily in clear weather from 11.45 to noon, 3.00 to 3.30 and 9.00 to 9.30 a. m. and p. m. on 280 kc. (1,049 m.).

DULUTH RANGE FRONT LIGHT STATION, Minn., lat. 46° 47' N., long. 92° 05' W. Transmits a series of three dashes and one dot, thus—

— — — . — — — — etc.  
60 seconds

Silent  
120 seconds

Transmits daily in clear weather from 11.45 to noon, 1.30 to 2 and 7.30 to 8 a. m. and p. m. on 314 kc. (955 m.).

PASSAGE ISLAND LIGHT STATION, Mich., lat. 48° 13' N., long. 88° 22' W. Transmits groups of 1 dash and 2 dots and 1 dash, thus—

— . . — — . . — — etc.  
60 seconds

Silent  
120 seconds

Transmits daily in clear weather from 11.45 to noon, 4 to 4.30 and 10 to 10.30 a. m. and p. m. on 302 kc. (993 m.).







## RADIO-COMPASS STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Station	Call signal	Geographical position	Arc of calibration
Amagansett, N. Y. <sup>1</sup> . . . . .	NBM	Receiver, 72° 07' 27" W., 40° 58' 10" N.; transmitter, 72° 07' 39" W., 40° 58' 20" N.	39°-232°.
Bar Harbor, Me. <sup>1</sup> . . . . .	NQC	Receiver, 68° 11' 40" W., 44° 18' 48" N.; transmitter, 68° 11' 40" W., 44° 18' 51" N.	63°-243°.
Bethany Beach, Del. (single group).	(NBN (NSI))	Receiver and transmitter (NBN), 75° 03' 22" W., 38° 32' 45" N.; transmitter (NSD), 75° 05' 27" W., 38° 47' 34" N.	0°-200°.
Boston Bay Entrance, Mass. (See Deer Island.)	NWM		
Cape Elizabeth (Port- land), Me.	NAB	Receiver, 70° 11' 59" W., 43° 33' 59" N.; transmitter, 70° 12' 06" W., 43° 33' 54" N.	30°-210°.
Cape Hatteras, N. C. (Cape Hatteras R/C group).	NDW	Receiver, 75° 31' 18" W., 35° 15' 59" N.; transmitter, 75° 31' 19" W., 35° 16' 00" N.	30°-220°.
Cape Henlopen, Del. (Delaware Bay R/C group).	NSD	Receiver, 75° 05' 26" W., 38° 47' 33" N.; transmitter, 75° 05' 27" W., 38° 47' 34" N.	0°-360°.
Cape Hinchbrook, Alaska.	NRM	Receiver, 146° 38' 55" W., 60° 14' 00" N.; transmitter, 146° 39' 08" W., 60° 14' 07" N.	110°-294°. Limited service. Keeps watch during fog and when ships are in the vic- inity.
Cape Lookout, N. C. . . . .	NAN	Receiver, 76° 32' 18" W., 34° 36' 11" N.; transmitter, 76° 32' 19" W., 34° 36' 12" N.	40°-230°.
Cape Mala <sup>1</sup> . . . . .	NNT	Receiver, 79° 59' 55" W., 07° 28' 17" N.; transmitter, 79° 59' 33" W., 07° 27' 34" N.	0°-235°.
Cape May, N. J. (single group).	(NKC (NSD))	Receiver and transmitter (NKC), 74° 54' 34" W., 38° 55' 55" N.; transmi- ter (NSD), 75° 05' 27" W., 38° 47' 34" N.	40°-240°.
Cattle Point, Wash. <sup>1</sup> . . . . .	NFN		
Chesapeake Bay En- trance, Va. (See Vir- ginia Beach.)	NCZ	Receiver, 122° 57' 45" W., 48° 27' 05" N.; transmitter, 122° 57' 41" W., 48° 27' 17" N.	120°-270°.
Deer Island, Mass. <sup>1</sup> (Boston Bay R/C group).	NWM	Receiver and transmitter, 70° 57' 29" W., 42° 21' 16" N.	10°-190°.
Delaware Bay Entrance, Del. (See Cape Hen- lopen.)	NSD		
Destruction Island, Wash.	NOJ	Receiver and transmitter, 124° 29' 00" W., 47° 40' 30" N.	0°-360°.
Detour Point, Mich. <sup>1</sup> . . . . .	NZU	Receiver, 83° 54' 51" W., 45° 57' 20" N.; transmitter, 83° 54' 44" W., 45° 57' 28" N.	100°-260°. Continuous service during the season of naviga- tion.
Eagle Harbor, Mich. <sup>1</sup> . . . . .	NUG	Receiver, 88° 08' 43" W., 47° 27' 53" N.; transmitter, 88° 08' 48" W., 47° 27' 48" N.	270°-75°. Continuous service during the season of naviga- tion.
Empire, Oreg. <sup>1</sup> . . . . .	NPF	Receiver, 124° 18' 58" W., 43° 23' 03" N.; transmitter, 124° 18' 29" W., 43° 22' 55" N.	65°-10°.
Eureka, Calif. <sup>1</sup> . . . . .	NPW	Receiver and transmitter, 124° 16' 24" W., 40° 41' 46" N.	214°-17°.
Farallon Island, Calif. <sup>1</sup> . . . . .	NPI	Receiver, 122° 59' 56" W., 37° 41' 59" N.; transmitter, 123° 00' 00" W., 37° 41' 52" N.	0°-360°.
Fire Island, N. Y. <sup>1</sup> (New York Bay R/C group).	NJY	Receiver, 73° 12' 32" W., 40° 38' 07" N.; transmitter, 73° 13' 00" W., 40° 37' 59" N.	88°-260°.
Folly Island, S. C. <sup>1</sup> . . . . .	NZV	Receiver, 79° 53' 22" W., 32° 41' 00" N.; transmitter, 79° 53' 20" W., 32° 41' 07" N.	30°-210°.

<sup>1</sup> Will transmit call signal as radiobeacon on 375 kc (800 m.) upon request.

## RADIO-COMPASS STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Call signal	Geographical position	Arc of calibration
Fort Stevens, Oreg. <sup>1</sup> ....	NZR	Receiver, 123° 58' 31" W., 46° 11' 49" N.; transmitter, 123° 58' 28" W., 46° 11' 38" N.	180°-12°.
Fourth Cliff, Mass. <sup>1</sup> (single group).	{NBF {NWM	{Receiver and transmitter (NBF), 70° 42' 22" W., 42° 09' 40" N.; transmitter (NWM), 70° 57' 29" W., 42° 21' 16" N.	{330°-150°.
Galveston, Tex. <sup>1</sup> .....	NKB	Receiver and transmitter, 94° 45' 13" W., 29° 20' 01" N.	30°-205°.
Grand Marais, Mich... <sup>1</sup>	NZT	Receiver, 85° 58' 26" W., 46° 40' 40" N.; transmitter, 84° 57' 22" W., 46° 46' 09" N.	270°-75°. Continuous service (during the season of navigation).
Imperial Beach, Calif. <sup>1</sup> ..	NPZ	Receiver and transmitter, 117° 07' 54" W., 32° 35' 14" N.	184°-344°.
Jupiter, Fla. <sup>1</sup> .....	NAQ	Receiver and transmitter, 80° 05' 02" W., 26° 56' 54" N.	6°-146°.
Klipsan Beach, Wash. <sup>1</sup> ..	NZS	Receiver, 124° 03' 16" W., 46° 27' 53" N.; transmitter, 124° 03' 11" W., 46° 27' 54" N.	155°-345°.
Lakehurst, N. J. ....	NEL	Receiver, 74° 19' 02" W., 40° 01' 39" N.; transmitter, 74° 19' 14" W., 40° 01' 57" N.	0°-360°. Aircraft only.
Manasquan, N. J. ....	{NFK {NJY	{Receiver and transmitter (NFK), 74° 01' 58" W., 40° 07' 05" N.; transmitter (NJY), 73° 13' 00" W., 40° 37' 59" N.	{20°-190°.
New Dungeness, Wash. <sup>1</sup> (Juan de Fuca Strait R/C group).	NFT	Receiver, 123° 07' 56" W., 48° 10' 32" N.; transmitter, 123° 08' 06" W., 48° 10' 26" N.	240°-120°.
New York Bay Entrance, N. Y. (See Fire Island).	NJY		
North Island, S. C. <sup>1</sup> ....	NZW	Receiver, 79° 11' 10" W., 33° 13' 18" N.; transmitter, 79° 11' 11" W., 33° 13' 22" N.	40°-320°.
North Truro, Mass. <sup>1</sup> ....	NAE	Receiver, 70° 03' 37" W., 42° 02' 23" N.; transmitter, 70° 03' 43" W., 42° 02' 27" N.	210°-160°.
Pensacola, Fla. <sup>1</sup> .....	NAS	Receiver, 87° 17' 13" W., 30° 20' 46" N.; transmitter, 87° 16' 17" W., 30° 20' 44" N.	72°-231°. Aircraft only.
Point Arguello, Calif. <sup>1</sup> ..	NPK	Receiver, 120° 38' 32" W., 34° 34' 38" N.; transmitter, 120° 38' 41" W., 34° 34' 38" N.	111°-353°. The calibrated arc between 111° and 160° passes over land and bearings in this sector should be used with caution.
Point Fermin, Calif. <sup>1</sup> ....	NPX	Receiver, 118° 17' 37" W., 33° 42' 19" N.; transmitter, 118° 17' 36" W., 33° 42' 22" N.	85°-350°.
Point Hueneume, Calif. <sup>1</sup> ..	NMD	Receiver and transmitter, 119° 12' 12" W., 34° 08' 44" N.	140°-300°.
Point Montara, Calif. <sup>1</sup> ..	NLH	Receiver, 122° 31' 07" W., 37° 32' 02" N.; transmitter, 122° 31' 05" W., 37° 32' 04" N.	178-355°. Unreliable in the sector 292-295° for vessels northwest and within 15 miles of Farallon Islands; unreliable in the sector 319-355° for vessels north of Point Reyes.
Point Reyes, Calif. <sup>1</sup> ....	NLG	Receiver, 122° 59' 36" W., 38° 02' 13" N.; transmitter, 122° 59' 36" W., 38° 02' 10" N.	120-12°.
Point St. George, Calif. <sup>1</sup> ..	NYW	Receiver, 124° 15' 06" W., 41° 47' 00" N.; transmitter, 124° 15' 05" W., 41° 47' 00" N.	177-12°.
Poyners Hill, N. C. (single group). <sup>1</sup>	{NDX {NCZ	{Receiver and transmitter (NDX), 75° 47' 48" W., 36° 17' 16" N.; transmitter (NCZ), 75° 58' 37" W., 36° 51' 09" N.	{0-150°.
Prices Neck, R. I. <sup>1</sup> .....	NGO	Receiver and transmitter, 71° 20' 16" W., 41° 27' 04" N.	0-360°.
St. Paul, Alaska <sup>1</sup> .....	NPQ	Receiver, 170° 16' 37" W., 57° 07' 18" N.; transmitter, 170° 16' 06" W., 57° 07' 22" N.	60-302°. Limited service. Keeps watch during fog and when ships are in the vicinity.
Sandy Hook, N. J. (single group).	{NHHD {NJY	{Receiver and transmitter (NHHD), 73° 59' 50" W., 40° 27' 54" N.; transmitter (NJY), 73° 13' 00" W., 40° 37' 59" N.	{0-182°.
Smith Island, Wash. <sup>1</sup> ....	NFH	Receiver, 122° 50' 39" W., 48° 19' 04" N.; transmitter, 122° 50' 35" W., 48° 19' 12" N.	0-360°.

<sup>1</sup> Will transmit call signal as radiobeacon on 375 k/c (800 m.) upon request.



RADIO-COMPASS STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Station	Call signal	Geographical position	Arc of calibration
Soapstone Point, Alaska. <sup>1</sup>	NUW	Receiver, 136° 29' 51'' W., 58° 06' 13'' N.; transmitter, 136° 29' 44'' W., 58° 05' 39'' N.	240-50°. Limited service. Keeps watch during fog and when ships are in the vicinity.
South Pass, La. <sup>1</sup> .....	NBX	Receiver and transmitter, 89° 09' 36'' W., 29° 00' 43'' N.	81-237°.
Surfside, Mass. (Nantucket Island). <sup>1</sup>	NBS	Receiver, 70° 05' 53'' W., 41° 14' 39'' N.; transmitter, 70° 05' 55'' W., 41° 14' 40'' N.	0-360°.
Tatoosh, Wash. <sup>1</sup> .....	NPD	Receiver, 124° 44' 05'' W., 48° 23' 28'' N.; transmitter, 124° 44' 04'' W., 48° 23' 28'' N.	165-85°. The calibration in the arc 160-230° shows certain defects; vessels given bearings in this sector are notified as follows: Doubtful sector, possible error plus or minus 5°. Bearings furnished in the sector 232°-264 should be used with caution until reported unreliability has been investigated.
Thatchers Island, Mass. (single group). <sup>1</sup>	{NBE NWM}	{Receiver and transmitter (NBE), 70° 34' 45'' W., 42° 38' 10'' N.; transmitter (NWM), 70° 57' 29'' W., 42° 21' 16'' N.	320-240°.
Toro Point, Canal Zone.	NQB	Receiver, 79° 56' 58'' W., 09° 22' 31'' N.; transmitter, 79° 46' 24'' W., 09° 07' 12'' N.	270-60°.
Virginia Beach, Va. (Chesapeake Bay R/C group). <sup>1</sup>	NCZ	Receiver, 75° 58' 33'' W., 36° 51' 10'' N.; transmitter, 75° 58' 37'' W., 36° 51' 09'' N.	355-160°.
Whitefish Point, Mich. <sup>1</sup>	NZT	Receiver, 84° 57' 22'' W., 46° 46' 19'' N.; transmitter, 84° 57' 22'' W., 46° 46' 09'' N.	275-180°. Continuous service during season of navigation.

<sup>1</sup> Will transmit call signal as radiobeacon on 375 k/c (800 m.) upon request.

## EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Owner and address
Alabama:				
Fort Morgan.....	W5XL	Variable.....	Variable.	Tropical Radio Telegraph Co.
Mobile.....	W5XM	do.....	do.....	Do.
California:				
Berkeley.....	W6XBL	Variable to 150 (2,000).....	( <sup>1</sup> )	Bernard H. Linden, 906 Santa Fe Ave. University of California.
Do.....	W6XM	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	1,000	
Beverly Hills.....	W6XAI	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68).	1,000	Fox Film Corp.
Bolinas.....	W6XB	9,000 (33.33), 13,690 (21.91), 18,000 (16.67).	80,000	R. C. A. Communications, (Inc.)
Do.....	W6XI	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	10,000	Do.
Do.....	W6XU	6,875 (43.64), 13,750 (21.82), 20,620 (14.55).	80,000	Do.
Hollywood.....	W6XBQ	Variable to 300 (1,000)	250	Lester Picker.
Do.....	W6XAV	1,604 (187), 2,530 (118.6)	250	Edward F. Walter, 1603 Hipoint St.
Do.....	W6XBC	6,420 (46.73), 12,850 (23.35)	250	R. N. Ucheminant, 2500 Marvin Ave.
Do.....	W6XBO	1,200 (250) to 75,000 (4)	( <sup>2</sup> )	Los Angeles County Forestry Department.
Do.....	W6XF	8,100 (37.04)	250	Calvin J. Smith, 334 North Serrano Ave.
Do.....	W6XL	375 (800) to 100,000 (3)	Variable.	Fred L. Dewey, 3440 Glen Albyn Drive.
Oakland.....	W6XAJ	667 (450) to 15,000 (20)		Preston D. Allen, Hotel Oakland.
Do.....	W6XN	6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341), 25,680 (11.682), 27,325 (10.979), 34,240 (8.76), 36,585 (8.68).	10,000	General Electric Co., 5411 E. Fourteenth St.
Do.....	W6XW	Variable to 200 (1,500)	( <sup>3</sup> )	H. O. de la Montanya, 2830 Eleventh Ave.
Palo Alto.....	W6XAU	1,604 (187.03), 2,398 (125.1), 3,088 (97.2), 4,795 (62.57), 6,815 (44.02), 6,875 (44.28), 7,670 (39.11), 7,655 (39.19), 7,730 (38.81), 7,745 (38.74), 7,760 (38.66), 8,075 (37.15), 8,720 (34.4), 8,850 (33.9), 8,970 (33.44), 8,990 (33.37), 9,070 (33.08), 9,280 (32.33), 10,460 (28.6), 10,810 (27.75), 10,830 (27.7), 13,000 (23.08), 13,030 (23.02), 13,750 (21.82), 13,960 (21.49), 14,680 (20.44), 14,710 (20.39), 14,740 (20.35), 14,770 (20.31), 17,420 (17.222), 17,660 (16.988), 17,700 (16.949), 18,260 (16.429), 18,780 (15.974), 19,540 (15.253), 19,580 (15.322), 19,620 (15.291), 19,740 (15.193), 20,300 (14.778), 20,980 (14.299), 21,380 (14.032).	5,000	M. R. T. Co.
Do.....	W6XAY	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70).	250	Corwin C. Chapman, 1111 Fulton St.

<sup>1</sup> Variable to 1,000.

<sup>2</sup> Variable to 500.

<sup>3</sup> Variable to 300.

EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Owner and address
California—Contd. Pala Alto.....	W6XV	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	1,000	Federal Telegraph Co.
Piedmont.....	W6XAO	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	500	Gerald Martin Best, 1460 Grand Ave.
San Francisco.....	W6XBJ	Variable over 120 (2,500).....	Variable.	D. B. McGown, 1247 Forty- seventh Ave.
Do.....	W6XT	2,140 (140.2), 4,280 (70.09), 8,650 (34.68), 17,300 (17.34), 34,240 (8.76).	500	Charles L. Watson and Ralph C. Gray.
Do.....	W6XZ	23,000 (13.043) to 28,000 (10.714).	50,000	Universal Wireless Commu- nication Co.
San Leandro.....	W6XBY	Variable over 300 (1,000).....	500	Herbert C. Colburn, 448 Dowling Boulevard.
San Mateo County.....	W6XAQ	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.311).	10,000	Federal Telegraph Co.
San Rafael.....	W6XAC	1,604 (187.03), 1,704 (176.06), 3,214 (93.3), 4,324 (69.4), 8,650 (34.68), 17,300 (17.341), 34,240 (8.76).	1,000	Willis E. Everette, West End.
Wilmington.....	W6XAE	1,604 (187), 2,398 (125.10), 3,208 (93.5), 4,795 (62.56).	250	Lemert Engineering Corp.
Colorado: Gunn- son.....	W9XD	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	100	Western State College of Colorado.
Connecticut: Hartford.....	W1XF	321 (935).....	200	Colonial Air Transport, 270 Madison Ave., New York, N. Y.
Do.....	W1XG	1,060 (283).....	50,000	Travelers Broadcasting Ser- vice Corp.
Do.....	W1XL	6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	500	Francis E. Handy, 15 Bea- con St.
Middletown.....	W1XX	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	500	Wesleyan University.
South Man- chester.....	W1XAM	do.....	1,000	John L. Reinartz, 176 Wads- worth St.
District of Colum- bia: Washington.....	W3XAV	2,222 (135), 3,370 (89), 4,170 (72), 8,820 (34).	50	Potomac Electric Power Co.
Do.....	W3XT	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	500	American Telephone & Tele- graph Co.
Do.....	W3XU	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	50,000	Universal Wireless Commu- nications Co.
Florida: Hialeah.....	W4XG	do.....	500	T. R. T. Co.
Miami Beach.....	W4XQ	do.....	1,000	Laurence E. Dutton, 1550 Drexel Ave.
Hawaii: Fort Shafter.....	K6XK	Variable over 125 (2,400).....	Variable.	Harold J. Adams, Capt., U. S. A.
Honolulu.....	K6XP	1,604 (187), 2,398 (125.10), 3,208 (93.50), 4,795 (62.56).	1,000	Mutual Telephone Co.
Do.....	K6XS	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341), 30,000 (10) to 300,000 (1).	1,000	R. C. A.
Kahuku.....	K6XO	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	10,000	R. C. A. Communications (Inc.).
Lahaina.....	K6XX	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341), 30,000 (10) to 300,000 (1).	500	R. C. A.

## EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Owner and address
Idaho: Boise.....	W7XT	Variable 200 (1,500) to 6,000 (5)	(*)	Boise High School, Independent School District of Boise City, Tenth and Washington Sts.
Illinois:				
Chicago.....	W9XAD	4,575 (65.57)	5	Joseph G. Branch, 3917 South Parkway.
Do.....	W9XC	2,140 (140.20), 4,280 (70.09), 8,650 (34.68)	10,000	Universal Wireless Communications Co.
Do.....	W9XM	23,000 (13.043) to 28,000 (10.714)	50,000	Do.
Do.....	W9XO	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68)	750	Morkrum-Kleinschmidt Corp., 1410 Wrightwood Ave.
Do.....	W9XT	Variable 500 (600) to 30,000 (10)	150	Stewart-Warner Speedometer Corp., 1826 Diversey Parkway.
Do.....	W9XY	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	25,000	Westinghouse Electric & Mfg. Co.
Rantoul.....	W9XK	3,256 (92.1376), 6,425 (46.6926), 8,650 (34.68), 17,300 (17.341)	1,000	Albert B. Pitts, Chanute Field.
Indiana:				
Culver.....	W9XB	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,428 (46.70), 8,650 (34.58), 12,850 (23.35), 17,300 (17.341)	1,000	Culver Military Academy (L. E. Dutton).
Hatmond.....	W9XS	2,068 (145)	5	Indiana Harbor Belt R. R. Co., Cleveland, Ohio.
Louisiana:				
Burrwood.....	W5XE	Variable	Variable.	T. R. T. Co.
New Orleans.....	W5XH	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	2,000	Do.
Maryland:				
Baltimore.....	W3XA	5,483 (54.70), 13,225 (22.70)	250	Bull Insular Line, Pier 8, Locust Point.
Do.....	W3XE	2,140 (140.20), 4,280 (70.09), 8,650 (34.68), 17,300 (17.34), 34,240 (8.76)	500	Baltimore Radio Show.
Do.....	W3XI	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57)	200	George E. Sterling, 4613 Elsrode Ave.
Hyattsville.....	W3XR	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	500	J. Harris Rogers.
Massachusetts:				
Boston.....	W1XE	321 (935)	200	Colonial Air Transport, 270 Madison Ave., New York, N. Y.
Do.....	W1XT	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	500	T. R. T. Co.
Cambridge.....	W1XJ	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35)	500	Harvard University.
Do.....	W1XM	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	500	Massachusetts Institute of Technology, Communications Division.
Do.....	W1XO	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	500	General Radio Co., 30 State St.
Chestnut Hill.....	W1XS	do.	500	Reginald A. Fessenden, 45 Waban Hill Road.
Dartmouth.....	W1XV	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57)	500	Round Hills Radio Corp.
Gloucester.....	W1XI	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	500	John Hays Hammond, jr.
Marion.....	W1XC	do.	10,000	R. C. A. Communications (Inc.)
Medford.....	X1XAW	do.	500	Trustees of Tufts College.

\* Variable 5-2,000.



## EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Owner and address
Massachusetts— Continued.				
Pittsfield	W1XU	Variable over 33.33 (9,000)	1,000	Thomas S. L. Kletchka, 112 High St.
Somerville	W1XB	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	500	General Industries Co., 63 Gorham St.
Southbridge	W1XAX	Variable 1,000 (300) to 300,000 (1)	500	John M. Wells, 156 Main St. (American Optical Co.)
Wianno	W1XA	8,650 (34.68), 12,850 (23.35)	500	Edward C. Crossett
Worcester	W1XZ	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57)	1,000	Clark University
Michigan:				
Dearborn	W8XL	515 (582.20), 535 (560.40)	1,000	Ford Motor Co.
Detroit	W8XZ	Variable	Variable	Supervisor of radio, eighth radio district.
Fordson	W8XR	do	1,000	Detroit Edison Co.
Utica	W8XB	1,605 (186.57), 2,302 (130.32), 3,076 (97.5), 4,108 (73.028), 6,155 (48.74)	500	Charles H. Vincent
Minnesota:				
Anoka	W9XL	2,286 (131.2), 4,572 (65.6), 6,574 (45.6), 9,045 (33.2), 13,600 (22), 18,290 (16.4), 27,335 (10.9), 36,580 (8.2)	Variable	Washburn-Crosby Co., R. F. D. 3.
Minneapolis	W9XI	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	500	University of Minnesota (Department of Electrical Engineering)
Robbinsdale	W9XAE	do	500	Lorenz A. Hansen and Charlton H. Kohler, 2000 Humboldt Ave., S.
Missouri: Carterville	W9XV	do	100	Rev. Lannie W. Stewart, 233 N. Kane Ave.
Montana: Bozeman	W7XB	do	100	Montana State College
Nebraska: Hastings	W9XW	Variable over 300 (1,000)	10,000	Westinghouse Electric & Mfg. Co.
New Jersey:				
Boonton	W3XW	3,076 (97.5), 6,155 (48.74)	50	Aircraft Radio Corp., Rockaway Valley Airport.
Bound Brook	W3XL	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	20,000	R. C. A. Communications (Inc.)
Cliffwood	W2XF	do	100	Bell Telephone Laboratories (Inc.), 463 West St., New York, N. Y.
Deal	W2XJ	do	15,000	Do
Jersey City	W2XBY	1,704 (176.06), 4,324 (69.4), 8,650 (34.68), 17,300 (17.34), 34,240 (8.76)	450	Walter Charles Von Brandt
Do	W2XCD	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	500	De Forest Radio Co., 139 Franklin St.
Mountain Lakes	W3XQ	1,975 (151.8), 3,950 (75.9), 7,900 (37.95)	250	Stuart Ballantine, 267 Boulevard West.
Newark	W2XAI	6,425 (46.7)	50,000	Westinghouse Electric & Mfg. Co.
Do	W2XCG	1,604 (187), 1,704 (176), 3,210 (93.5), 4,280 (70.09), 6,420 (46.73), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341), 25,680 (11.682), 34,240 (8.762), 51,360 (5.841)	1,000	F. T. Co., 200 Mt. Pleasant Ave.
Do	W2XL	7,130 (42.8), 8,586 (34.94)	250	Public Service Electric & Gas Co., 80 Park Place.
New Brunswick	W2XAM	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	10,000	R. C. A. Communications (Inc.)
Ocean Township	W2XG	do	5,000	Bell Telephone Laboratories, 463 West St., New York, N. Y.
Tuckerton	W2XD	do	10,000	R. C. A. Communications (Inc.)
Whippany	W3XN	327 (9.170), 1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	60,000	Bell Telephone Laboratories, 463 West St., New York, N. Y.

## EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Owner and address
New York:				
Babylon.....	W2XC	5,000 (60) to 5,505 (54.5), 5,760 (52.8) to 7,130 (42.8), 8,000 (37.5), 9,060 (33.1), 10,000 (30), 10,989 (27.3), 16,043 (18.7), 18,072 (16.6).	500	R. C. A.
Brooklyn.....	W2XBB	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	1,000	Do.
Do.....	W2XBP	315 (950) to 353 (850), 3,750 (80), 7,500 (40), 15,000 (20).	50	Pilot Electric Mfg. Co. (M. B. Sleeper), 323 Berry St.
Do.....	W2XCE	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	20,000	Allen D. Cardwell Mfg. Corp., 81 Prospect St.
Buffalo.....	W8XH	23,000 (13.043) to 28,000 (10.714).	50,000	Universal Wireless Communication Co.
Garden City....	W2XBD	2,306 (130), 2,998 (100), 3,748 (80), 7,496 (40), 14,010 (21.4), 29,982 (10), 56,022 (5.35).	20	Capt. Edmund B. Moore, Curtis Airplane and Motor Corp.
Glenville.....	W2XM	1,499 (200) to 29,982 (10)	250	General Electric Co., R. F. D. 8, Box 149.
Grasmere.....	W2XCB	4,795 (62.56), 6,425 (46.69)	50	David Grimes, 649 Richmond Road, Stapleton, N. Y.
Great Neck....	W2XAN	300 (1,000) to 2,000 (150)	550	Harry Alexander, 20 West Thirty-fourth St., New York, N. Y.
Jackson Heights.	W2XAU	4,572 (65.6), 5,600 (53.57), 6,574 (45.63), 9,045 (33.17), 11,200 (26.79), 13,600 (22.06), 16,800 (17.857), 18,200 (16.402), 27,325 (10.979)		John R. McKenna.
Long Island City.	W2XV	4,795 (62.57), 8,650 (34.68), 17,300 (17.341).	500	Radio Engineering Laboratories, 100 Wilbur Ave.
Do.....	W2XBT	2,140 (140.2), 2,280 (131.6)	1,000	F. L. Carter, 3978 Bliss St.
New Dorp.....	W2XCC	4,795 (62.56), 6,425 (46.69)	50	David Grimes, 649 Richmond Road, Stapleton, N. Y.
New York.....	W2XAP	5,483 (54.7), 13,225 (22.7)	250	Bull Insular Line.
Do.....	W2XAT	7,500 (40), 15,000 (20)	500	American Radio News Corp., 246 West Fifty-ninth St.
Do.....	W2XB	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	5,000	Bell Telephone Laboratories, 463 West St., New York, N. Y.
Do.....	W2XCT	23,000 (13.043) to 28,000 (10.714).	50,000	Universal Wireless Communication Co.
Do.....	W2XN	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	150	R. C. A.
Do.....	W2XQ	5,885 (50.98)	10-50	Universal Wireless Communication Co.
Do.....	W2XR	1,604 (187.03), 2,498 (120.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	500	Radio Pictures (Inc.), 140 Nassau St.
Do.....	W2XU	2,750 (109.1)	250	American Radio News Corp., 246 West Fifty-ninth St.
Do.....	W2XW	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	250	R. C. A.
Port Washington.	W2XCS	1,608 (186.57), 2,302 (130.32), 3,076 (97.5), 4,108 (73.028), 5,510 (54.45), 6,155 (48.74).	200	American Aeronautical Corp., 730 Fifth Ave., New York, N. Y.
Rochester.....	W8XAC	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	50	Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave.
Rocky Point....	W2XA	do.	190,000	American Telephone & Telegraph Co.
Do.....	W2XAR	8,930 (33.59), 11,650 (25.75), 17,860 (16.80).	80,000	R. C. A. Laboratories (Inc.)
Do.....	W2XAS	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	80,000	Do.

EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Owner and address
New York—Con. Rocky Point...	W2XBC	16,000 (18.75) to 56,000 (5.357) ..	80,000	R. C. A. Communications (Inc.)
Do.....	W2XBI	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	10,000	Do.
Do.....	W2XS	do	10,000	Do.
Do.....	W2XT	17,300 (17.341)	80,000	Do.
Sayville.....	W2XBL	35 (8.571)	100,000	M. R. T. Co., 253 Broadway, New York, N. Y.
Do.....	W2XCM	1,604 (187.03), 2,398 (125.10), 3,088 (97.2), 4,795 (62.57), 6,815 (44.02), 6,875 (44.28), 7,670 (39.11), 7,655 (39.19), 7,730 (38.81), 7,745 (38.74), 7,760 (38.66), 8,075 (37.15), 8,720 (34.4), 8,850 (33.9), 8,970 (33.44), 8,990 (33.37), 9,070 (33.08), 9,280 (32.33), 10,490 (28.6), 10,810 (27.75), 10,830 (27.7), 13,000 (23.08), 13,030 (23.02), 13,750 (21.82), 13,960 (21.49), 14,680 (20.44), 14,710 (20.39), 14,740 (20.35), 14,770 (20.31), 17,420 (17.222), 17,660 (16.988), 17,700 (16.949), 18,290 (16.429), 18,780 (15.974), 19,340 (15.253), 19,580 (15.322), 19,620 (15.291), 19,740 (15.198), 20,300 (14.778), 20,980 (14.299), 21,380 (14.032).	5,000	Do.
Schenectady...	W2XAE	1,499 (200) to 29,982 (10) .....	Variable.	General Electric Co., 1 River Road.
Do.....	W2XBN	Variable over 3,000 (100) .....	500	Union College Radio Club.
Do.....	W2XCII	2,302 (130.32), 3,076 (97.5) .....	300	General Electric Co.
Do.....	W2XI	790 (379.5) .....	15,000	Do.
South Schenectady.	W2XAC	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	25,000	Do.
Do.....	W2XAH	do	40,000	Do.
Do.....	W2XAK	do	250	Do.
Do.....	W2XAW	do	25,000	Do.
Do.....	W2XAZ	do	250	Do.
Do.....	W2XII	do	25,000	Do.
Do.....	W2XK	do	25,000	Do.
Do.....	W2XO	do	5,000	Do.
Water Mill.....	W2XBM	2,062 (145.5), 2,864 (104.7), 3,518 (85.3), 3,783 (79.3), 7,439 (40.3), 9,645 (31.1), 13,600 (22.06), 27,900 (10.7), 41,900 (7.2).	5,000	Western Union Telegraph Co., 195 Broadway.
Winfield.....	W2XP	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	1,000	Louis Gerard Pacent, 43-21 Sixty-eighth St.
Woodlawn Heights.	W2XAJ	do	150	R. C. A.
Yonkers.....	W2XAB	do	150	Do.
Yorktown Heights.	W2XCF	1,604 (187), 1,704 (176), 3,210 (93.5), 4,280 (70.09), 12,850 (23.35).	100	Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.
North Dakota: Grand Forks.	W9XJ	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	500	University of North Dakota, Department of Electrical Engineering.
Ohio: Akron.....	W8XAS	5,700 (52.6) to 7,005 (42.8), 12,825 (23.4) to 14,000 (21.4), 18,100 (16.6) to 56,000 (5.35).	5,000	Firestone Plantations Co.
Cleveland.....	W8XD	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	500	Cleveland Vacuum Tube Works, Nela Park.
Do.....	W8XF	1,712 (175.23)	100	Radio Air Service Corp.
Do.....	W8XO	Variable	500	Westinghouse Electric & Mfg. Co.
Dayton.....	W8XAG	8,650 (34.68)	50	Edmund T. Flewelling, R. F. D. 11, Springboro Road.

EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Owner and address
Pennsylvania: East Pittsburgh.	W8XI	30,000 (10) to 300,000 (1)	20,000	Westinghouse Electric & Mfg. Co.
Do.....	W8XS	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	2,000	Do.
Hazleton.....	W8XBC	Variable over 2,000 (150)	1,000	Pennsylvania Power & Light Co.
Narbeth.....	W3XB	2,286 (131.2), 4,572 (65.6), 6,574 (45.6), 9,045 (33.2), 13,600 (22), 18,290 (16.4), 27,335 (10.9), 36,580 (8.2).	100	Merrill D. Beam, 214 Merion Ave.
Oil City.....	W8XBD	1,020 (293.9)	1,000	Petroleum Telephone Co.
Philadelphia.....	W3XC	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	20	Frank B. Chambers, 6100 Market St.
Do.....	W3XS	2,398 (125.1)	50	Gleason W. Kendrick, Thirty-third and Walnut Sts.
Do.....	W3XX	1,499 (200), to 2,998 (100), 4,613 (65) to 4,997 (60), 8,566 (35) to 9,994 (30).	100-200	Charles A. Johnson, 5332 Gainor Road.
State College...	W8XE	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	500	Pennsylvania State College.
Swarthmore...	W3YJ	Variable over 1,500 (200)	100	Swarthmore College.
Porto Rico: San Juan.	K4XK	5,483 (54.7), 13,225 (22.7)	250	Bull Insular Line.
Rhode Island: Providence.	W1XAC	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	( <sup>b</sup> )	Ceco Manufacturing Co. (Inc.).
Texas: Houston....	W5NJ	2,000 (150), 2,256 (133), 5,703 (52.6), 7,009 (42.8).	500	Anderson, Clayton & Co., Cotton Exchange Building.
Utah: Salt Lake City.	W6XA	23,000 (13.043) to 28,000 (10.714)	50,000	Universal Wireless Communication Co.
Virginia: Alexandria.....	W3XD	1,539 (194.93), 3,256 (92.1), 4,795 (62.57).	500	Continental Broadcasting Corp., 111 Broadway, Suite 13, New York, N. Y.
Fredericksburg.	W3XF	do	500	Do.
Do.....	W3XG	do	500	Do.
Richmond.....	W3XH	do	500	Do.
Washington: Cashmere.....	W7XAT	101 (2,970)	7,000	Electro-Spray Corp.
Everett.....	W7XS	2,286 (131.2), 4,572 (65.6), 6,574 (45.6), 9,045 (33.2), 13,600 (22), 18,290 (16.4), 27,335 (10.9), 36,580 (8.2).	500	American Tug Boat Co.
Seattle.....	W7XE	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	2,000	R. M. C. A.
Do.....	W7XF	1,500 (200) to 60,000 (5)	Variable.	Simpson Radio Corp., 2114 L. C. Smith Building.
Wenatchee.....	W7XAS	101 (2,970)	7,000	Electro-Spray Corp.
Wisconsin: Madison.	W9XII	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.70), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	500	C. F. Burgess Laboratories, 1011 East Washington Ave.
PORTABLE				
California: Alma (Holy City).	W6XBH	968 (31), 2,814 (106.63), 5,660 (53).	50	W. E. Riker.
Culver City....	W6XAS	8,000 (37.48)	15	Culver City Radio Electric Co., 6715 Washington Boulevard, Culver City, Calif.
Los Angeles....	W6XAB	20 (15,000) to 50 (6,000)	500	Radiore Co.
Do.....	W6XAP	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57).	500	Dean Farran, 1250 Fifth Ave.
Do.....	W6XBF	2,727 (110)	30	Creco (Inc.), 923 Cole Ave.
Do.....	W6XBR	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,795 (62.57), 6,425 (46.7).	100	Warner Bros. Pictures (Inc.).

<sup>1</sup>Variable to 250.



EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Owner and address
PORTABLE—con.				
California—Con. Los Angeles	W6XY	640 (469)-----	100	Earle C. Anthony (Inc.), 1000 South Hope St.
Oakland	W6XG	550 (545) to 1,500 (200)-----	10,000	General Electric Co., 5555 East Fourteenth St.
Do	W6XAX	2,727 (110) to 12,000 (25)-----	50	Do.
Orange	W6XE	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.69), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	500	John E. Waters, R. R. 2, Box C.
San Diego	W6XJ	2,062 (145), 2,864 (104.7), 3,518 (85.3), 3,783 (79.3), 7,439 (40.3), 9,645 (31.1), 13,600 (22.06), 27,900 (10.7), 41,900 (7.2).	500	Pacific Coast Crystal Laboratories, 4814 Idaho St.
San Francisco	W6XBB	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35).	500	Ralph M. Heintz, 119 Twenty-sixth Ave.
Do	W6XBK	300 (1,000)-----	500	Mackay Radio & Telegraph Co.
Stanford University	W6XH	1,604 (187.03), 2,398 (125.10), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	1,000	Herbert Hoover, jr.
Colorado: Golden	W9XE	1,604 (187.03), 2,398 (125.1)-----	5	Colorado School of Mines. Mutual Telephone Co.
Hawaii: Honolulu	K6XBZ	2,308 (130) to 18,750 (16)-----	7.5	Pyle-National Co., 1334 North Kostner Ave.
Illinois: Chicago	W9XZ	2,308 (130) to 18,750 (16)-----	1,000	American Telephone & Telegraph Co., 195 Broadway, New York, N. Y.
Maine: Houlton	W1XR	50 (6,000) to 70 (4,286)-----	1,000	
Massachusetts: Boston	W1XAF	Variable-----	Variable.	Edison Electric Illuminating Co. of Boston, 30 Boylston St.
Do	W1XAG	do-----	Variable.	Do.
Dartmouth	W1XAN	1,608 (186.57), 2,302 (130.32), 3,076 (97.5), 4,108 (73.028), 5,510 (54.45), 6,155 (48.74).	500	Round Hills Radio Corp.
New Jersey: Ocean Township	W2XAV	1,604 (187.03), 2,398 (125.10), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	50	Bell Telephone Laboratories (Inc.), 463 West St., New York, N. Y.
New York: New York	W2XAA	do-----	1,000	Do.
Do	W2XAX	2,500 (120) to 2,752 (109)-----	20	Frances P. Houdina, 1476 Broadway.
Do	W2XAY	Over 30,000 (under 10)-----	75	Robert A. Fliess, 225 West Sixty-ninth St.
Do	W2XBE	Variable-----	50-1,000	American Telephone & Telegraph Co., 195 Broadway.
Do	W2XCI	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	250	R. C. A.
Rocky Point	W2XCQ	do-----	100	R. C. A. Communications (Inc.).
Pennsylvania: East Pittsburgh	W8XP	do-----	500	Westinghouse Electric & Manufacturing Co.
Seventh radio district	W7XAP	2,000 (150) to 4,000 (75)-----	10-50	Department of Agriculture, Forest Service.
Do	W7XAQ	do-----	10-50	Do.
Sixth radio district	W6XD	8,650 (34.68), 17,300 (17.34), 34,240 (8.76).	100	D. B. McGown, 1247 Forty-seventh Ave.
Sixth radio district (truck)	W6XQ	315 (952), 350 (857), 1,500 (200), 6,000 (50).	500	Bell Telephone Laboratories.
Utah: Salt Lake City	W6XR	283 (1,060), 360 (833)-----	500	Nightingale Radios (Inc.), 150 Motor Ave., Salt Lake City, Utah.
United States (throughout)	W10XA	4,280 (70.09), 8,560 (35.05)-----	100	Universal Wireless Communications Co.
Do	W10XB	do-----	100	Do.
Do	W10XC	do-----	100	Do.
Do	W10XD	do-----	100	Do.
Do	W10XE	do-----	100	Do.

## EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Owner and address
AIRCRAFT				
( <sup>6</sup> )	W8XA	2,302 (130.32), 4,108 (73.028)	100	Ford Motor Co.
C-268	W7XAA	315 (950), 350 (850), 1,500 (200) to 6,000 (50).	50	Bell Telephone Laboratories.
Colonial Air Transport Plane NC-5650.	W2XBZ	2,320 (129.3)	10	R. C. A.
Colonial Air Transport Plane NC-8004.	W2XBJ	do	10	Do.
NC1592	W1OXN	5,510 (54.45), 6,155 (48.74)	100	R. N. Cheminant, 2500 Marvin Ave., Los Angeles, Calif.
NC3314	W4XM	2,320 (129.3)	10	R. C. A.
NC4616	W2XBX	315 (952) to 350 (857), 1,608 (186.57), 2,302 (130.32), 3,076 (97.5), 4,108 (73.028), 5,510 (54.45), 6,155 (48.74).	500	Bell Telephone Laboratories.
NC5192	W4XN	2,320 (129.3)	10	Pan American Airways.
NC8000	W4XP	do	10	R. C. A.
NC9746	W1OXI	3,076 (97.5), 6,155 (48.74)	20	Aircraft Radio Corp., Boonton, N. J.
NC9779	W1OXL	1,608 (186.5), 2,302 (130.3), 3,076 (97.5), 4,108 (73.03), 5,510 (54.45), 6,155 (48.74).	300	R. M. C. A.
New York American (No. 4473). No. 767.	W2XBK	2,500 (120)	100	R. C. A.
	W2XCA	2,506 (119.71), 2,518 (119.14), 8,650 (34.68), 17,300 (17.341).	200	Morton B. Kahn, 617 West One hundred and forty-first St., New York, N. Y.
No. 4876	W2XBQ	315 (950) to 353 (850), 3,750 (80), 7,500 (40), 15,000 (20).	50	Pilot Electric Mfg. Co., (M. B. Sleeper) 323 Berry St., Brooklyn, N. Y.
NX7918	W1OXH	4,108 (73.03)	10	Daniel Guggenheim Fund (Inc.), 598 Madison Ave., New York, N. Y.
X118E	W2XAQ	2,506 (119.7)	50	Sky Lines (Inc.).
X7654	W8XC	1,608 (186.57), 2,302 (130.32), 4,108 (73.028), 8,650 (34.68).	75	Packard Motor Car Co.
X855E	W1OXF	315 (952) to 350 (857), 1,608 (186.57), 8,330 (36.01).	200	Chicago Daily News.
Unnamed	W1OXM	1,608 (186.57), 2,302 (130.32), 3,076 (97.5), 4,108 (73.028), 5,510 (54.45), 6,155 (48.74). Variable over 400 (750).	1,000	Boeing Air Transport (Inc.).
VESSEL: Naroca (yacht).	W9XN	Variable over 400 (750)		Zenith Radio Corp., 3620 Iron St., Chicago, Ill.
LOCOMOTIVE: No. 2724 and caboose No. 19517.	W2XBO	2,270 (132.2) to 2,300 (130.4) 2,635 (113.8) to 2,653 (113.1).	50	New York Central R. R.

<sup>6</sup> Assigned to any plane of the Ford Motor Co.

## RELAY BROADCASTING STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Location of transmitter	Call signal	Frequency in kilocycles, (meters in parentheses)	Power, (watts in antenna)	Owner and address
California:				
Los Angeles.....	W6XAN	2,830 (105.9).....	250	Freeman Lang, 1258 North Barry Ave.
Sacramento.....	W6XAF	2,938 (112.1), 5,870 (51.11).....	500	State Department of Agriculture (Calif.).
Westminster (near).....	W6XAL	6,080 (49.34), 15,250 (19.672), 21,500 (13.953).....	15,000	Pacific-Western Broadcasting Federation.
Colorado: Denver.....	W9XA	9,530 (31.48).....	750	General Electric Co., 1370 Krameria St.
Illinois: Downers Grove.....	W9XF	6,020 (49.83), 11,800 (25.42), 21,500 (13.953).....	5,000	Great Lakes Radio Broadcasting Co., 72 West Adams St., Chicago, Ill.
Iowa: Council Bluffs.....	W9XU	6,060 (49.5).....	500	Mona Motor Oil Co.
Maine: Portland.....	W1XAB	4,700 (63.79).....	250	Congress Square Hotel (Henry P. Rines).
Michigan: Detroit.....	W8XAO	9,370 (32).....	75	W J R. (Inc.), 2914 Book-Cadillac Hotel.
New Hampshire: Tilton.....	W1XY	2,855 (105), 2,751 (109).....	50-250	Booth Radio Laboratories.
New Jersey:				
Bound Brook.....	W3XAL	6,100 (49.18), 9,750 (31.35), 11,720 (25.6), 15,130 (19.828), 17,780 (16.873), 21,500 (13.953).....	20,000	R. C. A. Communications (Inc.).
Coytesville.....	W2XAL	6,040 (46.67), 11,800 (25.42), 15,250 (19.672), 21,460 (13.979).....	500	Aviation Radio Station.
Kearney.....	W2XCX	6,080 (49.34).....	500	L. Bamberger and Co.
New York:				
Bellmore.....	W2XZ	610 (491.5).....	50,000	National Broadcasting Co.
Coney Island.....	W2XBH	5,550 (54.02).....	225	Charles G. Unger, 183 Vermont St., Brooklyn, N. Y.
New York:				
Richmond Hill.....	W2XBR	6,020 (49.83).....	1,000	Baruchrome Corp.
South Schenectady.....	W2XE	6,120 (49.02).....	5,000	Atlantic Broadcasting Corp.
	W2XAD	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 15,340 (19.557), 17,300 (17.341).....	25,000	General Electric Co.
Do.....	W2XAG	550 (545), 660 (455), 790 (380), 1,155 (260.9), 1,500 (200).....	200,000	Do.
Do.....	W2XAF	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 9,530 (31.48), 12,850 (23.35), 17,300 (17.341).....	40,000	Do.
Ohio:				
Columbus.....	W8XJ	5,553 (54.02).....	50	Ohio State University, Department of Electrical Engineering.
Harrison.....	W8XAL	6,000 (49.5).....	250	Crosley Radio Corp., 3401 Colerain Ave., Cincinnati, Ohio.
Pennsylvania: East Pittsburgh.....	W8XK	6,140 (48.86), 9,570 (31.35), 11,880 (25.25), 15,210 (19.724), 17,780 (16.873), 21,540 (13.928).....	20,000	Westinghouse Electric & Mfg. Co.
Philadelphia (near Bustleton).....	W3XAU	6,060 (49.5), 9,580 (31.28).....	500	Universal Broadcasting Co., 1940 Market St.
Washington: Spokane.....	W7XAB	2,833 (105.0).....	50	Symons Investment Co., Symons Bldg.
MU-1 (yacht).....	W2XAO	2,833 (105.0).....	100	A. H. Grebe & Co., Richmond Hill, N. Y.

## VISUAL BROADCASTING STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Owner and address
California:				
Los Angeles....	W6XAM	2,000 (150) to 2,100 (142.9) .....	500	Ben S. McGlashan, 2333 Twenty-first St.
Do.....	W6XC	4,500 (66.27) to 4,600 (65.22) .....	15,000	Robert B. Parrish, 5155 South Grammercy Place.
Florida: Winter Park.	W4XE	2,000 (150) to 2,100 (142.9) .....	2,000	William Justice Lee, P. O. Box 986, Interlachen Ave.
Illinois:				
Chicago.....	W9XAG	.....do.....	1,000	Aero Products, (Inc.).
Do.....	W9XAA	.....do.....	1,000	Chicago Federation of Labor.
Do.....	W9XAO	.....do.....	500	Nelson Brothers Bond & Mortgage Co., 134 North La Salle St.
Downers Grove	W9XR	2,100 (142.9) to 2,200 (136.4); 2,850 (105.3) to 2,950 (101.7).	5,000	Great Lakes Broadcasting Co., 72 West Adams St., Chicago, Ill.
Iowa: Iowa City...	W9XAZ	2,000 (150) to 2,100 (142.9)	500	State University of Iowa.
Maryland: Silver Springs	W3XK	2,000 (150) to 2,100 (142.9), 2,850 (105.3) to 2,950 (101.7).	5,000	Jenkins Laboratories.
Massachusetts:				
East Springfield	W1XAE	2,000 (150) to 2,100 (142.9) .....	20,000	Westinghouse Electric Man- ufacturing Co.
Lexington.....	W1XAY	.....do.....	5,000	Lexington Air Stations, Adams St., care of Carl S. Wheeler.
Somerville.....	W1XB	2,100 (142.9) to 2,200 (136.4), 2,750 (109.1) to 2,850 (105.3).	500	General Industries Co., 63 Gorham St.
New Jersey:				
Allwood.....	W2XCP	2,000 (150) to 2,100 (142.9), 2,850 (105.3) to 2,950 (101.7).	2,000	Freed-Eisemann Radio Corp., Junius St. and Lib- erty Ave., New York, N. Y.
Jersey City....	W2XCR	2,100 (142.9) to 2,200 (136.4) .....	5,000	Jenkins Television Corp., 316-370 Claremont Ave.
Newark.....	W2XBA	2,750 (109.1) to 2,850 (105.3) .....	500	WAAM, (Inc.), 7 Bond St.
New York:				
Beacon.....	W2XBU	2,000 (150) to 2,100 (142.9) .....	100	Harold E. Smith.
Brooklyn.....	W2XCL	.....do.....	250	Pilot Manufacturing Co.
New York.....	W2XCO	2,100 (142.9) to 2,200 (136.4) .....	5,000	R. C. A.
Do.....	W2XR	2,000 (150) to 2,100 (142.9), 2,100 (142.9) to 2,200 (136.4), 2,752 (109.01) to 2,848 (105.34), 2,854 (105.12) to 2,950 (101.69).	500	Radio Pictures (Inc.), 140 Nassau St.
Ossining.....	W2XX	2,000 (150) to 2,100 (142.9) .....	100	Robert F. Gowen.
Schenectady...	W2XCW	2,100 (142.9) to 2,200 (136.4) .....	20,000	General Electric Co.
Oregon: Portland.	W7XAO	2,750 (109.1) to 2,850 (105.3) .....	100	Wilbur Jerman, (Inc.), 385 Fifty-eighth St. South.
Pennsylvania: East Pittsburgh.	WSXAV	2,000 (150) to 2,100 (142.9), 2,100 (142.9) to 2,200 (136.4), 2,750 (109.1) to 2,850 (105.3).	20,000	Westinghouse Electric & Mfg. Co.
PORTABLE				
New Jersey: Bound Brook.	W2XBW	2,000 (150) to 2,100 (142.9) .....	5,000	R. C. A.
New York:				
New York.....	W2XBS	.....do.....	5,000	Do.
Do.....	W2XBV	.....do.....	5,000	Do.



# EXPERIMENTAL, RELAY BROADCASTING, AND VISUAL BROADCASTING STATIONS, GROUPED BY DISTRICTS AND ALPHABETICALLY BY CALL SIGNALS

Call signal	Location	Call signal	Location
W1XA	First district:	W2XBN	Second district—Continued.
W1XAB	Wianno, Mass.	W2XBO	Schenectady, N. Y.
W1XAC	Portland, Me.		New York Central R. R. locomotive No. 2724 and caboose No. 19517.
W1XAD	Providence, R. I.	W2XBP	Brooklyn, N. Y.
W1XAE	Springfield, Mass.	W2XBQ	No. 4876. <sup>3</sup>
W1XAF	East Springfield, Mass.	W2XBR	New York, N. Y.
W1XAG	Boston, Mass.	W2XBS	Do.
W1XAM	Do.	W2XBT	Long Island City, N. Y.
W1XAN	South Manchester, Conn.	W2XBU	Beacon, N. Y.
W1XAW	Dartmouth, Mass. <sup>1</sup>	W2XBV	New York, N. Y. <sup>1</sup>
W1XAX	Medford, Mass.	W2XBW	Bound Brook, N. J. <sup>1</sup>
W1XAY	Southbridge, Mass.	W2XBX	NC-4616. <sup>3</sup>
W1XAZ	Lexington, Mass.	W2XBY	Jersey City, N. J.
W1XBA	Somerville, Mass.	W2XBZ	NC-5650. <sup>3</sup>
W1XBC	Marion, Mass.	W2XC	Babylon, N. Y.
W1XBD	Worcester, Mass.	W2XCA	No. 767. <sup>3</sup>
W1XBE	Boston, Mass.	W2XCB	Grasmere, N. Y.
W1XBF	Hartford, Conn.	W2XCC	New Dorp, N. Y.
W1XBG	Do.	W2XCD	Jersey City, N. J.
W1XBI	Gloucester, Mass.	W2XCE	Brooklyn, N. Y.
W1XBJ	Cambridge, Mass.	W2XCF	Yorktown Heights, N. Y.
W1XBL	Hartford, Conn.	W2XCG	Newark, N. J.
W1XBM	Cambridge, Mass.	W2XCH	Schenectady, N. Y. (airport).
W1XBN	Middletown, Conn.	W2XCI	New York, N. Y.
W1XBO	Cambridge, Mass.	W2XCL	Brooklyn, N. Y.
W1XBP	Houlton, Me. <sup>1</sup>	W2XCM	Sayville, N. Y.
W1XBQ	Chestnut Hill, Mass.	W2XCN	New York, N. Y.
W1XBK	Boston, Mass.	W2XCP	Allwood, N. J.
W1XBL	Pittsfield, Mass.	W2XCQ	Rocky Point, N. Y. <sup>1</sup>
W1XBU	Dartmouth, Mass.	W2XCR	Jersey City, N. J.
W1XBV	Tilton, N. H.	W2XCS	Port Washington, N. Y.
W1XBW	Worcester, Mass.	W2XCT	New York, N. Y.
W1XBX		W2XCW	Schenectady, N. Y.
W1XBY		W2XCX	Kearny, N. J.
W1XBY		W2XD	Tuckerton, N. J.
W1XBY		W2XE	Richmond Hill, N. Y.
W1XBY		W2XF	Cliffwood, N. J.
W1XBY		W2XG	Ocean Township, N. J.
W1XBY		W2XH	South Schenectady, N. Y.
W1XBY		W2XI	Schenectady, N. Y.
W1XBY		W2XJ	Deal, N. J.
W1XBY		W2XK	South Schenectady, N. Y.
W1XBY		W2XL	Newark, N. J.
W1XBY		W2XM	Glenville, N. Y.
W1XBY		W2XN	New York, N. Y.
W1XBY		W2XO	South Schenectady, N. Y.
W1XBY		W2XP	Winfield, N. Y.
W1XBY		W2XQ	New York, N. Y.
W1XBY		W2XR	Do.
W1XBY		W2XS	Rocky Point, N. Y.
W1XBY		W2XT	Do.
W1XBY		W2XU	New York, N. Y.
W1XBY		W2XV	Long Island City, N. Y.
W1XBY		W2XW	Bronx, N. Y.
W1XBY		W2XX	Ossining, N. Y.
W1XBY		W2XY	Newark, N. J.
W1XBY		W2XZ	Bellmore, N. Y.
W1XBY			Third district:
W1XBY		W3XA	Baltimore, Md.
W1XBY		W3XAL	Bound Brook, N. J.
W1XBY		W3XAU	Philadelphia, Pa.
W1XBY		W3XAV	Washington, D. C.
W1XBY		W3XB	Narbeth, Pa.
W1XBY		W3XC	Philadelphia, Pa.
W1XBY		W3XD	Alexandria, Va.
W1XBY		W3XE	Baltimore, Md.
W1XBY		W3XF	Fredericksburg, Va.
W1XBY		W3XG	Do.
W1XBY		W3XH	Richmond, Va.
W1XBY		W3XI	Baltimore, Md.
W2XA	Second district:		
W2XAA	Rocky Point, N. Y.		
W2XAB	New York, N. Y. <sup>1</sup>		
W2XAC	Yonkers, N. Y.		
W2XAD	South Schenectady, N. Y.		
W2XAE	Do.		
W2XAF	Schenectady, N. Y.		
W2XAG	South Schenectady, N. Y.		
W2XAH	Do.		
W2XAI	Newark, N. J.		
W2XAJ	Woodlawn Heights, N. Y.		
W2XAK	Schenectady, N. Y.		
W2XAL	Coytesville, N. J.		
W2XAM	New Brunswick, N. J.		
W2XAN	Great Neck, N. Y.		
W2XAO	MU-1. <sup>2</sup>		
W2XAP	New York, N. Y.		
W2XAQ	X118E. <sup>3</sup>		
W2XAR	Rocky Point, N. Y.		
W2XAS	Do.		
W2XAT	New York, N. Y.		
W2XAU	Jackson Heights, N. Y.		
W2XAV	Ocean Township, N. J. <sup>1</sup>		
W2XAW	South Schenectady, N. Y.		
W2XAX	New York, N. Y. <sup>1</sup>		
W2XAY	Do.		
W2XAZ	South Schenectady, N. Y.		
W2XB	New York, N. Y.		
W2XBA	Newark, N. J.		
W2XBB	Brooklyn, N. Y.		
W2XBC	Rocky Point, N. Y.		
W2XBD	Garden City, N. Y.		
W2XBE	New York, N. Y. <sup>1</sup>		
W2XBH	Coney Island (Brooklyn), N. Y.		
W2XBI	Rocky Point, N. Y.		
W2XBJ	NC-8000. <sup>3</sup>		
W2XBK	New York American (No. 4473). <sup>1</sup>		
W2XBL	Sayville, N. Y.		
W2XBM	Water Mill, N. Y.		

<sup>1</sup> Portable.

<sup>2</sup> Vessel.

<sup>3</sup> Aircraft.

EXPERIMENTAL, RELAY BROADCASTING, AND VISUAL BROADCASTING STATIONS,  
GROUPED BY DISTRICTS AND ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location	Call signal	Location
	Third district—Continued.		
W3XK	Silver Spring, Md.	W7XAA	C-268. <sup>3</sup>
W3XL	Bound Brook, N. J.	W7XAB	Spokane, Wash. <sup>1</sup>
W3XN	Whippany, N. J.	W7XAO	Portland, Oreg.
W3XQ	Mountain Lakes, N. J.	W7XAP	Seventh radio district. <sup>1</sup>
W3XR	Hyattsville, Md.	W7XAQ	Do. <sup>1</sup>
W3XS	Philadelphia, Pa.	W7XAS	Wenatchee, Wash.
W3XT	Washington, D. C.	W7XAT	Cashmere, Wash.
W3XU	Do.	W7XBB	Bozeman, Mont.
W3XW	Boonton, N. J.	W7XBE	Seattle, Wash.
W3XX	Philadelphia, Pa.	W7XBF	Do.
	Fourth district:	W7XSS	Everett, Wash.
K4XK	San Juan, P. R.	W7XTT	Boise, Idaho.
W4XE	Winter Park, Fla.		Eighth district:
W4XG	Hiialeah, Fla.	W8XA	Aircraft. <sup>4</sup>
W4XM	NC-3314. <sup>3</sup>	W8XAC	Rochester, N. Y.
W4XN	NC-5192. <sup>3</sup>	W8XAG	Dayton, Ohio
W4XP	NC-8000. <sup>3</sup>	W8XAL	Harrison, Ohio
W4XQ	Miami Beach, Fla.	W8XAO	Detroit, Mich.
	Fifth district:	W8XAS	Akron, Ohio
W5XE	Burrwood, La.	W8XAV	East Pittsburgh, Pa.
W5XH	New Orleans, La.	W8XBB	Utica, Mich.
W5XJ	Houston, Tex.	W8XBC	Hazleton, Pa.
W5XL	Fort Morgan, Ala.	W8XBD	Oil City, Pa.
W5XM	Mobile, Ala.	W8XC	X-7654. <sup>3</sup>
	Sixth district:	W8XD	Cleveland, Ohio
K6XBZ	Honolulu, Hawaii. <sup>1</sup>	W8XE	State College, Penn.
K6XK	Fort Shafter, Hawaii. <sup>1</sup>	W8XF	Cleveland, Ohio
K6XO	Kahuku, Hawaii.	W8XI	East Pittsburgh, Pa.
K6XP	Honolulu, Hawaii.	W8XJ	Columbus, Ohio
K6XS	Do.	W8XK	East Pittsburgh, Pa.
K6XX	Lahaina, Hawaii.	W8XL	Dearborn, Mich.
W6XA	Salt Lake City, Utah.	W8XO	Cleveland, Ohio
W6XAB	Los Angeles, Calif. <sup>1</sup>	W6XPP	East Pittsburgh, Pa. <sup>1</sup>
W6XAC	San Rafael, Calif.	W6XRR	Fordson, Mich.
W6XAE	Wilmington, Calif.	W6XSS	East Pittsburgh, Pa.
W6XAF	Sacramento, Calif.		Ninth district:
W6XAH	Beverly Hills, Calif.	W9XA	Denver, Colo.
W6XAJ	Oakland, Calif.	W9XAA	Chicago, Ill.
W6XAL	Westminster, Calif.	W9XAD	Do.
W6XAM	Los Angeles, Calif.	W9XAF	Robbinsdale, Minn.
W6XAN	Do.	W9XAG	Chicago, Ill.
W6XAO	Piedmont, Calif.	W9XAZ	Do.
W6XAP	Los Angeles, Calif.	W9XBB	Iowa City, Iowa
W6XAQ	San Mateo County, Calif.	W9XC	Culver, Ind.
W6XAS	California. <sup>1</sup>	W9XD	Chicago, Ill.
W6XAU	Palo Alto, Calif.	W9XE	Gunnison, Colo.
W6XAV	Los Angeles, Calif.	W9XF	Golden, Colorado. <sup>1</sup>
W6XAX	Oakland, Calif. <sup>1</sup>	W9XH	Chicago, Ill.
W6XAY	Palo Alto, Calif.	W9XII	Madison, Wis.
W6XB	Bolinas, Calif.	W9XI	Minneapolis, Minn.
W6XBB	San Francisco, Calif.	W9XJ	Grand Forks, N. Dak.
W6XBC	Los Angeles, Calif.	W9XK	Rantoul, Ill.
W6XBF	Do. <sup>1</sup>	W9XL	Anoka, Minn.
W6XBH	Alma (Holy City), Calif. <sup>1</sup>	W9XM	Chicago, Ill.
W6XBJ	San Francisco, Calif.	W9XN	Naroca. <sup>2</sup>
W6XBK	Do. <sup>1</sup>	W9XO	Chicago, Ill.
W6XBL	Berkeley, Calif.	W9XR	Downers Grove, Ill.
W6XBO	Los Angeles, Calif.	W9XS	Hammond, Ind.
W6XBQ	Hollywood, Calif.	W9XT	Chicago, Ill.
W6XBR	Do. <sup>1</sup>	W9XU	Council Bluffs, Iowa
W6XBY	San Leandro, Calif.	W9XV	Carterville, Mo.
W6XD	Sixth radio district. <sup>1</sup>	W9XW	Hastings, Nebr.
W6XE	Orange, Calif.	W9XY	Chicago, Ill.
W6XF	Los Angeles, Calif.	W9XZ	Do. <sup>1</sup>
W6XG	Oakland, Calif.		<i>Aircraft and portable</i>
W6XH	Stanford University, Calif. <sup>1</sup>		United States, (throughout) <sup>1</sup>
W6XI	Bolinas, Calif.	W10XA	Do. <sup>1</sup>
W6XJ	San Diego, Calif. <sup>1</sup>	W10XB	Do. <sup>1</sup>
W6XK	Berkeley, Calif.	W10XC	Do. <sup>1</sup>
W6XN	Oakland, Calif.	W10XD	Do. <sup>1</sup>
W6XQ	Sixth radio district. <sup>1</sup>	W10XE	Do. <sup>1</sup>
W6XR	Salt Lake City, Utah. <sup>1</sup>	W10XF	X855E. <sup>3</sup>
W6XT	San Francisco, Calif.	W10XG	NC10511. <sup>2</sup>
W6XU	Bolinas, Calif.	W10XH	NX-7918. <sup>3</sup>
W6XV	Palo Alto, Calif.	W10XI	NC-9746. <sup>3</sup>
W6XW	Oakland, Calif.	W10XL	NC-9779. <sup>3</sup>
W6XY	Los Angeles, Calif. <sup>1</sup>	W10XM	Western States, (in) <sup>1</sup>
W6XZ	San Francisco, Calif.	W10XN	NC-1592. <sup>3</sup>

<sup>1</sup> Portable.<sup>2</sup> Vessel.<sup>3</sup> Aircraft.<sup>4</sup> Assigned to any plane of Ford Motor Co.

# TECHNICAL AND TRAINING SCHOOL STATIONS, ALPHABETICALLY BY CALL SIGNALS AND STATES AND CITIES—GROUPED BY DISTRICTS

## FIRST DISTRICT

### ALPHABETICALLY BY CALL SIGNALS

Call signal	Owner	Location and address
W1YA	University of Maine.....	Orono, Me.
W1YB	Dartmouth College.....	Hanover, N. H.
W1YC	Eastern Radio Institute.....	899 Boylston St., Boston, Mass
W1YD	Norwich University.....	Northfield, Vt.
W1YF	Rhode Island Radio School.....	111 Empire St., Providence, R. I.
W1YK	Worcester Polytechnic Institute.....	125 Salisbury St., Worcester, Mass.
W1YS	Massachusetts Radio and Telegraph School.....	18 Boylston St., Boston, Mass.

### ALPHABETICALLY BY STATES AND CITIES

Location	Call signal	Location	Call signal
Maine: Orono.....	W1YA	New Hampshire: Hanover.....	W1YB
Massachusetts: Boston.....	W1YC	Rhode Island: Providence.....	W1YF
Do.....	W1YS	Vermont: Northfield.....	W1YD
Worcester.....	W1YK		

## THIRD DISTRICT

### ALPHABETICALLY BY CALL SIGNALS

Call signal	Owner	Location and address
W3YA	Loemis Radio College.....	405 Ninth St. NW., Washington, D. C.
W3YB	Commercial Radio Institute.....	38 West Biddle St., Baltimore, Md.
W3YG	Philadelphia School of Wireless Telegraph.....	1533 Pine St., Philadelphia, Pa.

### ALPHABETICALLY BY STATES AND CITIES

Location	Call signal	Location	Call signal
District of Columbia: Washington.....	W3YA	Pennsylvania: Philadelphia.....	W3YG
Maryland: Baltimore.....	W3YB		

TECHNICAL AND TRAINING SCHOOL STATIONS, ALPHABETICALLY BY CALL SIGNALS AND STATES AND CITIES—GROUPED BY DISTRICTS—Continued

FIFTH DISTRICT

ALPHABETICALLY BY CALL SIGNALS

Call signal	Owner	Location and address
W5YA	New Mexico College of Agricultural and Mechanical Arts	State College, N. Mex.
W5YC	Chenier Business College of Beaumont	571 Orleans St., Beaumont, Tex.
W5YD	Mississippi A. and M. College, Department of Physics	A. & M. College, Miss.
W5YE	Board of Education, Oklahoma City	Seventh and Robinson Sts., Oklahoma City, Okla.
W5YG	Rice Institute	Main St., Houston, Tex.
W5YH	Port Arthur College	1500 Procter St., Port Arthur, Tex.
W5YI	Wallace Radio Institute	103 West Thirteenth St., Oklahoma City, Okla.
W5YS	Brantley Draughon College	611½ Main St., Fort Worth, Tex.
W5YT	Tyler Commercial College	201 South College St., Tyler, Tex.
W5YW	Louisiana State University	Baton Rouge, La.

ALPHABETICALLY BY STATES AND CITIES

Location	Call signal	Location	Call signal
Louisiana: Baton Rouge	W5YW	Texas:	
Mississippi: A. & M. College	W5YD	Beaumont	W5YC
New Mexico: State College	W5YA	Fort Worth	W5YS
Oklahoma:		Houston	W5YG
Oklahoma City	W5YE	Port Arthur	W5YH
Do	W5YI	Tyler	W5YT

SIXTH DISTRICT

ALPHABETICALLY BY CALL SIGNALS

Call signal	Owner	Location and address
W6YA	Radio School of Los Angeles	715 South Hope St., Los Angeles, Calif.
W6YC	University of Redlands	Redlands, Calif.
W6YD	National Automotive and Electrical School	4006 South Figueroa St., Los Angeles, Calif.
W6YF	Galt Technical Jr. College for Aeronautics	Galt, Calif.
W6YG	Santa Cruz High School, Radio Department	Walnut Ave., Santa Cruz, Calif.
W6YH	Radio School of Los Angeles	3207 La Clede Ave., Los Angeles, Calif.
W6YL	San Jose State Teachers College	San Jose, Calif.
W6YM	Central High School of the Oakland Public Schools	Twelfth and Jefferson Sts., Oakland, Calif.
W6YP	College of the Pacific	Pacific Ave. and Stadium Drive, Stockton, Calif.

ALPHABETICALLY BY STATES AND CITIES

Location	Call signal	Location	Call signal
California:		California—Continued.	
Galt	W6YF	Oakland	W6YM
Los Angeles	W6YA	Redlands	W6YC
Do	W6YD	San Jose	W6YL
Do	W6YH	Santa Cruz	W6YG
		Stockton	W6YP



TECHNICAL AND TRAINING SCHOOL STATIONS, ALPHABETICALLY BY CALL SIGNALS AND STATES AND CITIES—GROUPED BY DISTRICTS—Continued

SEVENTH DISTRICT

ALPHABETICALLY BY CALL SIGNALS

Call sig- nal	Owner	Location and address
W7YA	Independent school district of Boise City—Boise High School.	Boise, Idaho.
W7YB	Roosevelt High School.....	Sixty-sixth Ave. and Fifteenth St. N. E., Seattle, Wash.
W7YC	Y. M. C. A. Radio School.....	Fourth and Madison Sts., Seattle, Wash.
W7YD	University of Washington.....	College of Electrical Engineering, University of Washington Campus, Seattle, Wash.
W7YE	North Junior High School.....	Everett, Wash.
W7YG	Oregon Institute of Technology.....	Lowndale and Taylor Sts., Portland, Ore.
W7YH	State College of Washington.....	College of Mechanical Arts and Engineering, Pullman, Wash.
W7YJ	Oregon State Agricultural College.....	Physics Building, Oregon Agricultural College Campus, Corvallis, Ore.
W7YK	Benson Polytechnic School.....	E. Twelfth and Hoyt Sts., Portland, Ore.
W7YL	North Central High School.....	Howard and Nora Sts., Spokane, Wash.

ALPHABETICALLY BY STATES AND BY CITIES

Location	Call sig- nal	Location	Call sig- nal
Idaho: Boise.....	W7YA	Washington:	
Oregon:		Everett.....	W7YE
Corvallis.....	W7YJ	Pullman.....	W7YH
Portland.....	W7YG	Seattle.....	W7YB
Do.....	W7YK	Do.....	W7YC
		Do.....	W7YD
		Do.....	W7YL

EIGHTH DISTRICT

ALPHABETICALLY BY CALL SIGNALS

Call sig- nal	Owner	Location and address
W8YA	Pennsylvania State College, Department of Electrical Engineering.	College Campus, State College, Pa.
W8YP	Seneca Vocational School.....	668 East Delavan Ave., Buffalo, N. Y.
W8YV	Grove City College.....	Main and Broad Sts., Grove City, Pa.
W8YX	University of Cincinnati.....	Cincinnati, Ohio.

ALPHABETICALLY BY STATES AND CITIES

Location	Call sig- nal	Location	Call sig- nal
New York: Buffalo.....	W8YP	Pennsylvania:	
Ohio: Cincinnati.....	W8YX	State College.....	W8YA
		Grove City.....	W8YV

TECHNICAL AND TRAINING SCHOOL STATIONS, ALPHABETICALLY BY CALL SIGNALS AND STATES AND CITIES—GROUPED BY DISTRICTS—Continued

NINTH DISTRICT

ALPHABETICALLY BY CALL SIGNAL

Call sig- nal	Owner	Location and address
W9YA	State University of Iowa.....	Iowa City, Iowa.
W9YAH	Western State College of Colorado.....	Gunnison, Colo.
W9YAM	University of South Dakota.....	Science Hall, University Campus, Vermillion, S. Dak.
W9YB	Purdue University.....	Electrical Engineering Bld., West Lafayette, Ind.
W9YD	Nebraska Wesleyan University.....	Department of Physics, Fiftieth and St. Paul Sts., Lincoln, Nebr.
W9YI	Iowa State College.....	Ames, Iowa.

ALPHABETICALLY BY STATES AND CITIES

Location	Call sig- nal	Location	Call sig- nal
Colorado: Gunnison.....	W9YAH	Nebraska: Lincoln.....	W9YD
Indiana: West Lafayette.....	W9YB	South Dakota: Vermillion.....	W9YAM
Iowa:			
Ames.....	W9YI		
Iowa City.....	W9YA		

## APPENDIX

### COMMERCIAL VESSELS EQUIPPED WITH RADIO COMPASS, ALPHABETICALLY BY NAMES OF VESSELS

Vessel	Owner	Vessel	Owner
Abangarez	United Fruit S. S. Corp.	Berkshire	Merchants & Miners Transpn. Co.
A. C. Bedford	Standard Shipping Co.	Do	Berkshire S. S. Co.
Acme	Standard Transpn. Co.	Bethlehem	Bethlehem Transpn. Corp.
Adam E. Cornelius	American S. S. Co.	Betterton	Associated Oil Co.
Admiral Dewey	Pacific S. S. Co.	B. F. Affleck	Pittsburgh S. S. Co.
Admiral Farragut	Do.	Bird City	American Scantic Line (Inc.)
Admiral Schley	Do.	Birkenhead	Vacuum Oil Co.
Adriatic	Interlake S. S. Co.	Black Point	Black Point S. S. Co.
A. E. Nettleton	Great Lakes S. S. Co.	Boston	Eastern S. S. Lines.
A. E. R. Schneider	Morrow S. S. Co.	Bristol	Coastwise Transpn. Corp.
A. F. Harvey	Pittsburgh S. S. Co.	Broad Arrow	Standard Transpn. Co.
A. H. Ferbert	Do.	Bylady	Pocahontas S. S. Co.
Alabama	Texas Co.	C. A. Canfield	Pan-American Petroleum & Transport Co.
Do	Goodrich Transit Co.	Cadillac	Cleveland Cliffs S. S. Co.
Aladdin	Standard Transpn. Co.	Calamares	United Fruit S. S. Corp.
Alameda	Alaska S. S. Co.	California	Texas S. S. Co.
Alaska	Do.	Do	American Line S. S. Corp.
Alaska Standard	Standard Oil Co. of California.	Californian	American-Hawaiian S. S. Co.
Alexander McDougall	Pittsburgh S. S. Co.	California Standard	Standard Oil Co. of California.
Algonquin	Standard Transpn. Co.	Calmar	Calmar S. S. Corp.
All America	All America Cable Co.	Calumet	Interlake S. S. Co.
Alleghany	Merchants & Miners Transpn. Co.	Camargo	Julius Fleischmann.
Alpena	Wyandotte Transpn. Co.	Cambria	Bethlehem Transpn. Corp.
Altair	Standard Transpn. Co.	Camden	United Fruit Tanker Corp.
Alva C. Dinkey	Pittsburgh S. S. Co.	Canopus	Interlake S. S. Co.
Amasa Stone	Interlake S. S. Co.	Captain A. F. Lucas	Standard Oil Co. of California.
A. M. Byers	Reiss S. S. Co.	Carmi A. Thompson	Producers S. S. Co.
America	United States Lines.	Caroline	Eldridge K. Johnson.
American	American-Hawaiian S. S. Co.	Carrabulle	Cuba Distilling Co.
American Banker	United States Lines.	Carrillo	United Fruit S. S. Corp.
American Farmer	Do.	Cartago	Do.
American Legion	Munson S. S. Line.	Cassimir	Cuba Distilling Co.
American Merchant	United States Lines.	Catahoula	Do.
American Shipper	Do.	Cathwood	Union Oil Co. of California.
American Trader	Do.	Cerro-Azul	Pan-American Petroleum & Transport Co.
Amida	E. R. Behrend.	Cerro-Ebano	Do.
Ancon	Panama Railroad Co.	Cetus	Forest City S. S. Co.
Andrea F. Luckenbach	Luckenbach S. S. Co.	Charles C. West	Rockport Steamship Co.
Andrew S. Upson	Kinney S. S. Co.	Charles E. Harwood	Pan-American Petroleum & Transport Co.
Angeline	Presque Isle Transpn. Co.	Charles G. Black	Standard Shipping Co.
Ara	William K. Vanderbilt.	Charles Hubbard	Great Lakes S. S. Co.
Arcadia	Margaret S. Hardwick.	Charles M. Everest	Vacuum Oil Co.
Arcturus	Interlake S. S. Co.	Charles M. Schwab	Interlake S. S. Co.
Argon	Standard Transpn. Co.	Charles Pratt	Standard Shipping Co.
Argosy	American Scantic Line (Inc.)	Charlie Watson	Standard Oil Co. of California.
Ario	Standard Transpn. Co.	Chatham	Merchants & Miners Transpn. Co.
Arizona	Williams S. S. Corp.	Cherokee	Cherokee Seminole S. S. Corp.
Atvan	Texas Co.	Chester O. Swain	Standard Shipping Co.
Ashtabula	Pennsylvania & Ontario Nav. Co.	Chilcop	Chile S. S. Co.
Astral	Standard Transpn. Co.	Chilseo	Do.
A. T. Kinney	Kinney S. S. Co.		
Atenas	United Fruit S. S. Corp.		
Atlas	Standard Transpn. Co.		
Augustus B. Wolvin	Interlake S. S. Co.		
August Ziesing	Pittsburgh S. S. Co.		
Aurora	Standard Transpn. Co.		
Australia	Texas S. S. Co.		
Aztec	Albert C. Burrage.		
Benjamin Brewster	Standard Shipping Co.		
Benson Ford	Ford Motor Co.		

## COMMERCIAL VESSELS EQUIPPED WITH RADIO COMPASS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Vessel	Owner	Vessel	Owner
China Arrow	Standard Transpn. Co.	E. G. Mathiott	Valley Camp S. S. Co.
Chirikof	Alaska Packers' Assn.	E. J. Sadler	Standard Shipping Co.
Christy Payne	Standard Shipping Co.	Elba	Interlake S. S. Co.
C. H. McCullough, jr.	Interlake S. S. Co.	Elbert H. Gary	Pittsburgh S. S. Co.
City of Cleveland III	Detroit & Cleveland Navigation Co.	Elisha Walker	Pan-American Petroleum & Transport Co.
City of Detroit III	Do.	El Salvadore	Grace S. S. Co.
City of Fairbury	American Scantic Line (Inc.)	El Segundo	Standard Oil Co. of California
City of New York	Commander R. E. Byrd.	Elton Hoyt II	Stewart Furnace Co.
Clarence A. Black	Pittsburgh S. S. Co.	E. M. Clark	Standard Shipping Co.
Clemens A. Reiss	Reiss S. S. Co.	Emilio	Standard Transpn. Co.
Clifford F. Moll	American S. S. Co.	Emma Alexander	Pacific S. S. Co.
C. O. Jenkins	Jenkins S. S. Co.	Emory L. Ford	Franklin Steamship Corp.
Colombia	Panama Mail S. S. Co.	Empire Arrow	Standard Transpn. Co.
Col. James M. Schoonmaker	Shenango Furnace Co.	Edward N. Saunders, jr.	Calumet Transpn. Co.
Colonel James Pickands	Interlake S. S. Co.	Esparta	United Fruit S. S. Corp.
Columbian	American-Hawaiian S. S. Co.	E. T. Bedford	Standard Shipping Co.
Conneaut	Wyandotte Transpn. Co.	Eugene J. Bullington	Pittsburgh S. S. Co.
Coppenname	United Fruit S. S. Corp.	Eugene W. Pargny	Do.
Coralia	Nicholas-Universal S. S. Co.	Evangeline	Nova Scotia S. S. Corp.
Cordova	Alaska S. S. Co.	Fairfax	Merchants & Miners Transpn. Co.
Cornell	Pittsburgh S. S. Co.	F. A. Warner	Coos Bay Lumber Co.
Corvus	Interlake S. S. Co.	Fayette Brown	Stewart Furnace Co.
Crampton Anderson	Pan-American Petroleum & Transport Co.	F. B. Squire	Jenkins S. S. Co.
Crescent City	Nicholson-Universal S. S. Co.	F. H. Hillman	Standard Oil Co. of California
Cressida	Herrman Oelrichs.	F. H. Wickett	Pan-American Petroleum and Transport Co.
Crete	Interlake S. S. Co.	Finland	Great Lakes S. S. Co.
C. Russell Hubbard	Columbia S. S. Co.	F. J. Luckenbach	Luckenbach S. S. Co.
Cristobal	Panama Railroad Co.	Florence Luckenbach	Do.
C. S. Robinson	Interlake S. S. Co.	F. Q. Barstow	Standard Shipping Co.
Cubore	Calmar S. S. Corp.	Francis H. House	Pittsburgh S. S. Co.
Cygnus	Interlake S. S. Co.	Frank G. Drum	Associated Oil Co.
Dakotan	American-Hawaiian S. S. Co.	Frank H. Buck	Do.
Daniel J. Morrell	Cambria S. S. Co.	Frank H. Goodyear	American S. S. Co.
David Z. Norton	Columbia S. S. Co.	Franklin	Texas Co.
Dean Emery	Pan-American Petroleum & Transport Co.	Franklin K. Lane	Pan-American Petroleum & Transport Co.
D. E. Callender	Morrow S. S. Co.	Frederic Ewing	Do.
Delphine	Anna Dodge Dillman.	Frederic R. Kellogg	Do.
Denmark	Great Lakes S. S. Co.	Fred G. Hartwell	Franklin S. S. Corp.
Derbyline	Texas Co.	Fred W. Weller	Standard Shipping Co.
Deroche	Union Oil Co. of California	Freeman	Pocahontas S. S. Co.
D. G. Kerr	Pittsburgh S. S. Co.	Galena	Texas Co.
D. G. Scotfield	Standard Oil Co. of California	Gargoyle	Vacuum Oil Co.
Diamond Cement	Pacific Coast S. S. Co.	General Markham	Gladstone Transpn. Co.
Dirigo	Texas Co.	Gen. Orlando M. Poe	Pittsburgh S. S. Co.
District of Columbia	Standard Oil Co. of California	George F. Baker	Do.
Dixie	Southern Pacific Co.	George F. Rand	American S. S. Co.
Dixie Arrow	Standard Transpn. Co.	George G. Crawford	Pittsburgh S. S. Co.
D. M. Clemson	Pittsburgh S. S. Co.	George G. Henry	Pan-American Petroleum & Transport Co.
D. O. Mills	Interlake S. S. Co.	Geo. H. Jones	Standard Shipping Co.
Dorchester	Merchants & Miners Transpn. Co.	George M. Humphrey	Kinsman Transit Co.
Dorothy Alexander	Pacific S. S. Co.	George Stephenson	Pittsburgh S. S. Co.
Dorothy Luckenbach	Luckenbach S. S. Co.	George Washington	Eastern S. S. Lines (Inc.)
Douglas Houghton	Pittsburgh S. S. Co.	Do.	United States Lines
Dungannon	Texas Co.	George W. Barnes	Pan-American Petroleum & Transport Co.
Eagle	Standard Transpn. Co.	George W. Mead	Newwayog Tug Line (Inc.)
E. A. S. Clarke	Interlake S. S. Co.	George W. Perkins	Pittsburgh S. S. Co.
Eastern Guide	Pacific Coast S. S. Co.	Georgian	Pacific Atlantic S. S. Co.
Eastern States	Detroit & Cleveland Navigation Co.	Do.	Williams S. S. Corp.
East Indian	Ford Motor Co.	Ginger Dot, jr.	Frank B. Stearns
E. C. Collins	Pittsburgh S. S. Co.	Glenpool	Standard Shipping Co.
Equador	Panama Mail S. S. Co.	Grand Haven	Grand Trunk & Milwaukee Car Ferry Co.
Edgar F. Luckenbach	Luckenbach S. S. Co.	Grand Island	Cleveland Cliffs S. S. Co.
Edward A. Uhrig	Calumet Transpn. Co.	Grand Rapids	Grand Trunk & Milwaukee Car Ferry Co.
Edward L. Doheny	Pan-American Petroleum & Transport Co.	Greater Detroit	Detroit & Cleveland Navigation Co.
Edward Luckenbach	Luckenbach S. S. Co.	Greater Buffalo	Do.
Edward Y. Townsend	Cambria S. S. Co.	Guatemala	Grace S. S. Co.
		Gulfbird	Gulf Refining Co.
		Gulferest	Do.



COMMERCIAL VESSELS EQUIPPED WITH RADIO COMPASS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Vessel	Owner	Vessel	Owner
Gulfhawk	Gulf Refining Co.	J. E. Savage	Morrow S. S. Co.
Gulf Pride	Do.	J. F. Durston	Great Lakes S. S. Co.
Gulfring	Do.	J. H. Sheadle	Cleveland Cliffs S. S. Co.
Hanley	Hanley S. S. Co.	J. J. H. Brown	Brown S. S. Co.
Harold Walker	Pan-American Petroleum & Transport Co.	J. J. Turner	Calumet Transp. Co.
Harry Coulby	Interlake S. S. Co.	J. L. Luckenbach	Luckenbach S. S. Co.
Harry H. Brown	Stewart Furnace Co.	J. L. Reiss	Reiss S. S. Co.
Harry Luckenbach	Luckenbach S. S. Co.	J. M. Danziger	Pan-American Petroleum & Transport Co.
Harry R. Jones	Interlake S. S. Co.	J. T. Reid	Nicholsson-Universal S. S. Co.
Harry W. Croft	Stewart Furnace Co.	John A. Kling	Rockport S. S. Co.
Harry Yates	American S. S. Co.	John Anderson	Morrow S. S. Co.
Harvard	Pittsburgh S. S. Co.	John A. Topping	Columbia S. S. Co.
Do.	Los Angeles S. S. Co.	John B. Cowle	Great Lakes S. S. Co.
Harvester	Texas Co.	John D. Archbold	Standard Shipping Co.
Harvey D. Goulder	Columbia S. S. Co.	John Dunn, jr.	Great Lakes S. S. Co.
Harvey H. Brown	Stewart Furnace Co.	John H. McLean	Pittsburgh S. S. Co.
Hawaiian	American-Hawaiian S. S. Co.	John McCartney Kennedy	Valley Camp S. S. Co.
H. C. Cadmus	New Orleans Coal & Bisso Towboat Co.	John P. Reiss	Reiss S. S. Co.
Heffron	Heffron S. S. Co.	John Sherwin	Interlake S. S. Co.
Hegira	Heigra S. S. Co.	J. S. Ashley	Kinney S. S. Co.
Hemlock	Interlake S. S. Co.	John W. Boardman	Huron Transp. Co.
Henry C. Frick	Pittsburgh S. S. Co.	John W. Gates	Pittsburgh S. S. Co.
Henry D. Whiton	Union Sulphur Co.	John Worthington	Standard Shipping Co.
Henry Ford II	Ford Motor Co.	Jonancy	Pocahontas S. S. Co.
Henry G. Dalton	Interlake S. S. Co.	Joseph H. Frantz	Columbia S. S. Co.
Henry H. Rogers	Pittsburgh S. S. Co.	Joseph Seep	Standard Shipping Co.
Henry Phipps	Do.	Joseph Sellwood	Interlake S. S. Co.
Henry Steinbrener	Kinsman Transit Co.	Joseph Wood	Eastern S. S. Co.
Herbert F. Black	Donner S. S. Co.	Joshua A. Hatfield	Pittsburgh S. S. Co.
Herbert G. Wylie	Pan-American Petroleum & Transport Co.	J. Pierpont Morgan	Do.
Heredia	United Fruit S. S. Corp.	J. P. Morgan, jr.	Do.
Herman Frasch	Union Sulphur Co.	J. R. Gordon	Union Sulphur Co.
H. F. Alexander	Pacific S. S. Co.	J. T. Reid	Spokane S. S. Co.
H. H. Rogers	Standard Shipping Co.	Julia Luckenbach	Luckenbach S. S. Co.
Hilda	Charles Boldt.	Juniata	Great Lakes Transit Corp.
H. M. Flagler	Standard Shipping Co.	Jupiter	Interlake S. S. Co.
H. M. Storey	Standard Oil Co. of California.	Kansas	American-Hawaiian S. S. Co.
Homer D. Williams	Pittsburgh S. S. Co.	Katrina Luckenbach	Luckenbach S. S. Co.
Horace Luckenbach	Luckenbach S. S. Co.	Kekoskee	Richfield Oil Co.
Horace S. Wilkinson	Great Lakes S. S. Co.	Kentuckian	American-Hawaiian S. S. Co.
Howard L. Shaw	Pittsburgh S. S. Co.	Kewance	Associated Oil Co.
Howard M. Hanna, jr.	Columbia S. S. Co.	K. I. Luckenbach	Luckenbach S. S. Co.
H. T. Harper	Standard Oil Co. of California.	K. R. Kingsbury	Standard Oil Co. of California.
Hugh Kennedy	American S. S. Co.	LaBelle	LaBelle S. S. Co.
Huron	Wyandotte Transp. Co.	LaBrea	Union Oil Co. of California.
I. C. White	Pan-American Petroleum & Transport Co.	Lackawanna	Bethlehem Transp. Corp.
Illinois	Goodrich Transit Co.	Lagonda	Interlake S. S. Co.
Do.	Texas Co.	Lake Ormoc	Ford Motor Co.
India Arrow	Standard Transp. Co.	La Perla	United Fruit S. S. Corp.
Iowan	American-Hawaiian S. S. Co.	La Placencia	Union Oil Co. of California.
Iroquois	New York & Miami S. S. Co.	La Purisima	Do.
Isaac L. Elwood	Pittsburgh S. S. Co.	Larry Doheny	Petroleum Securities Corp.
Isaac T. Mann	Pocahontas S. S. Co.	Lebanon	Bethlehem Transp. Corp.
Ishpeming	Cleveland Cliffs S. S. Co.	Lebec	Standard Transp. Co.
J. A. Campbell	Interlake S. S. Co.	Lehigh	Bethlehem Transp. Corp.
James A. Farrell	Pittsburgh S. S. Co.	Lemuel Burrows	Mystic S. S. Co.
James C. Wallace	Interlake S. S. Co.	Lena Luckenbach	Luckenbach S. S. Co.
James Elwood Jones	Pocahontas S. S. Co.	Leonard B. Miller	Columbia S. S. Co.
James H. Reed	Interlake S. S. Co.	Leonard C. Hanna	Mahoning S. S. Co.
James J. Hill	Pittsburgh S. S. Co.	Levant Arrow	Standard Transp. Co.
James McGee	Standard Shipping Co.	Leviathan	United States Lines.
James Watt	Pittsburgh S. S. Co.	Lewis Luckenbach	Luckenbach S. S. Co.
J. A. Moffett	Standard Oil Co. of California.	Liebre	Standard Transp. Co.
J. A. Moffett, jr.	Standard Shipping Co.	Lightburne	Texas Co.
Japan Arrow	Standard Transp. Co.	Lillian Luckenbach	Luckenbach S. S. Co.
Java Arrow	Do.	Limon	United Fruit S. S. Corp.
Jay C. Morse	Interlake S. S. Co.	Lio	Standard Transp. Co.
J. B. John	Potoskey Transp. Co.	Livingstone Roe	Standard Shipping Co.
J. C. Fitzsimmons	Standard Oil Co. of California.		
J. C. Wallace	Interlake S. S. Co.		

## COMMERCIAL VESSELS EQUIPPED WITH RADIO COMPASS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Vessel	Owner	Vessel	Owner
L. J. Drake	Standard Shipping Co.	Norman B. Ream	Pittsburgh S. S. Co.
Lone Star	George G. Bourne.	Norman Bridge	Pan-American Petroleum & Transport Co.
Los Alamos	Standard Transpn. Co.		Chicago, Duluth & Georgian Bay Transit Co.
Los Angeles	Union Oil Co. of California.	North American	John Borden.
Louisiana	Texas Co.	Northern Light	Eastern S. S. Lines (Inc.).
Louis R. Davidson	American S. S. Co.	Northland	Alaska S. S. Co.
Louis W. Hill	Producers S. S. Co.	Northwestern	Great Lakes S. S. Co.
Lubrico	Standard Oil Co. of California.	Norway	New Orleans & South America S. S. Co.
Lynan C. Smith	Great Lakes S. S. Co.	Nosa Chief	Do.
Lynford E. Geer	Reiss S. S. Co.	Nosa King	Do.
M. A. Bradley	Nicholson-Universal S. S. Co.	Nosa Prince	Do.
Madison	Grand Trunk & Milwaukee Car Ferry Co.	Nosa Queen	Do.
Makiki	Matson Navigation Co.	Nourmahal	Vincent Astor.
Mala	Do.	Oakey L. Alexander	Pocahontas S. S. Co.
Malama	Do.	Oakmar	Clamar S. S. Corp.
Malietoa	Pittsburgh S. S. Co.	Occidental	Texas S. S. Co.
Maliko	Matson Navigation Co.	Octorara	Great Lakes Transit Corp.
Malolo	Do.	Odinah	Interlake S. S. Co.
Mana	Do.	Ohioan	American-Hawaiian S. S. Co.
Manitowoc	Newaygo Tug Line (Inc.).	Olean	Vacuum Oil Co.
Manoa	Matson Navigation Co.	Oleum	Union Oil Co. of California.
Manukai	Do.	Oregon	States S. S. Co.
Manulani	Do.	Oregonian	American-Hawaiian S. S. Co.
Margo	B. A. Masseur.	Oscar D. Bennett	Pan-American Petroleum & Transpn. Co.
Mariocopa	Pittsburgh S. S. Co.	O. S. McFarland	Lakewood S. S. Co.
Marquette	Cleveland Cliffs S. S. Co.	O. T. Waring	Standard Shipping Co.
Martha E. Ellen	Frank C. Wright.	Outagamie	Standard Oil Co. of Indiana.
Mary D.	Pacific American Fisheries.	Panama	American-Hawaiian S. S. Co.
Maryland	Bethlehem Transpn. Corp.	Pan-America	Munson S. S. Line.
Massmar	Calmar S. S. Corp.	Panoil	Pan-American Petroleum & Transport Co.
Mataafa	Pittsburgh S. S. Co.	Papoose	Petroleum Navigation Co.
Matsonia	Matson Navigation Co.	Parismina	United Fruit S. S. Corp.
Matthew Andrews	Kinsman Transit Co.	Pastores	Do.
Maui	Matson Navigation Co.	Pat Doehny	Petroleum Securities Co.
Mauna Ala	Do.	Pathfinder	Interlake S. S. Co.
Maunalei	Do.	Patricia	Vincent Astor.
Maunaloa	Pittsburgh S. S. Co.	Paul H. Harwood	Pan-American Petroleum & Transport Co.
Maunawili	Matson Navigation Co.	Paul Luckenbach	Luckenbach S. S. Co.
McGilvray Shiras	Pittsburgh S. S. Co.	Paulsboro	Vacuum Oil Co.
Memory III.	A. E. Fitkin.	Paul Shoup	Associated Oil Co.
Mericos H. Whittier	Associated Oil Co.	Peacock	U. S. S. B.
Metapan	United Fruit S. S. Corp.	Pegasus	Interlake S. S. Co.
Mexican	American-Hawaiian S. S. Co.	Pennmar	Calmar S. S. Corp.
M. F. Elliott	Standard Shipping Co.	Pennsylvania	Texas Co.
Michigan	Cleveland Cliffs S. S. Co.	Pennsylvanian	American-Hawaiian S. S. Co.
Milwaukee	Grand Trunk & Milwaukee Car Ferry Co.	Pennsylvania Sun	Sun Oil Co.
Minnekahda	Atlantic Transport Co.	Penobscot	Penobscot S. S. Co.
Minnequa	American Seantic Line (Inc.).	Pentecost Mitchell	Pittsburgh S. S. Co.
Minnesotan	American-Hawaiian S. S. Co.	Perceval Roberts, jr.	Do.
Missourian	Do.	Pere Marquette 15	Pere Marquette Ry. Co.
Mizpah	Eugene F. MacDonald.	Pere Marquette 17	Do.
Mohawk	Clyde S. S. Co.	Pere Marquette 18	Do.
Mojave	Standard Transpn. Co.	Pere Marquette 19	Do.
Montanan	American-Hawaiian S. S. Co.	Pere Marquette 20	Do.
Montebello	Union Oil Co. of California.	Pere Marquette 21	Do.
Munising	Cleveland Cliffs S. S. Co.	Pere Marquette 22	Do.
Nebraskan	American-Hawaiian S. S. Co.	Perseus	Interlake S. S. Co.
Negaunee	Cleveland Cliffs S. S. Co.	Peter A. B. Widener	Pittsburgh S. S. Co.
Neptune	Interlake S. S. Co.	Peter Reiss	Reiss S. S. Co.
Nevada	States S. S. Co.	Peter White	Presque Isle Transpn. Co.
Nevadan	American-Hawaiian S. S. Co.	Philip Minch	Kinsman Transit Co.
New Jersey	Texas Co.	Pioneer	Standard Shipping Co.
New York	Eastern S. S. Lines.	Plymouth	Plymouth S. S. Co.
Do.	Texas Co.	Point Breeze	Atlantic Refining Co.
Norfolk	Coastwise Transpn. Corp.	Polarine	Standard Shipping Co.
		Pomona	Pomona S. S. Co.
		Powell Stackhouse	Mahoning S. S. Co.
		President Adams	Dollar S. S. Line.

COMMERCIAL VESSELS EQUIPPED WITH RADIO COMPASS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Vessel	Owner	Vessel	Owner
President Cleveland	Pittsburgh S. S. Co.	Santa Maria	Grace S. S. Co.
President Garfield	Do.	Santa Marta	United Fruit S. S. Corp.
President Grant	Admiral Oriental Line.	Santa Rita	Grace S. S. Co.
President Harding	United States Lines.	Santa Teresa	Do.
President Harrison	Dollar S. S. Line.	Saramacca	United Fruit S. S. Corp.
President Hayes	Do.	Saturn	Interlake S. S. Co.
President Jackson	Admiral Oriental Line.	Saucon	Bethlehem Transpn. Corp.
President Jefferson	Do.	Savarona	Emily R. Cadwalader.
President Johnson	American Foreign S. S. Co.	S. B. Hunt	Standard Shipping Co.
President Lincoln	Dollar S. S. Line.	S. B. Way	Valley Camp S. S. Co.
President Madison	Admiral Oriental Line.	Schenectady	American Scantic Line (Inc.)
President McKinley	Do.	S. C. T. Dodd	Standard Oil Co. of California.
President Monroe	Dollar S. S. Line.	Sea Thrush	Shepard S. S. Co.
President Pierce	Do.	Seminole	Cherokee-Seminole S. S. Corp.
President Polk	Do.	Shawnee	New York & Miami S. S. Corp.
President Roosevelt	United States Lines.	Shenandoah	Texas Co.
President Taft	Dollar S. S. Line.	Shenango	Shenango Furnace Co.
President Van Buren	Do.	Simon J. Murphy	Pittsburgh S. S. Co.
President Wilson	Do.	Sir Henry Bessmer	Do.
Presque Isle	Presque Isle Transpn. Co.	Sir Wm. Fairbairn	Do.
Princeton	Pittsburgh S. S. Co.	Sir William Siemens	Do.
Do	Standard Shipping Co.	Sivaola	United Fruit S. S. Corp.
Queen Anne	Isaac E. Emerson.	Smith Thompson	Great Lakes S. S. Co.
Queen City	Pittsburgh S. S. Co.	S. M. Spalding	Pan-American Petroleum & Transport Co.
Quincy A. Shaw	Calumet Transpn. Co.	Socony	Standard Transpn. Co.
Rawleigh Warner	Sabine Towing Co.	Solana	Associated Oil Co.
R. B. Wallace	Kinney S. S. Co.	Solitaire	Texas Co.
Reaper	Texas Co.	Sonora	Nicholson-Universal S. S. Co.
Relief	Merritt Chapman & Scott Corp.	South American	Chicago, Duluth & Georgian Bay Transit Co.
Renown	Standard Oil Co. of Indiana.	Southern Cross	Munson S. S. Line.
Rensselaer	Pittsburgh S. S. Co.	Standard	Staudard Shipping Co.
Republic	Petroleum Navigation Co.	Standard Arrow	Standard Transpn. Co.
Do	United States Lines.	Standard Service	Standard Oil Co. of California.
Resolute	Merritt, Chapman & Scott Corp.	S. T. Crapo	Huron Transpn. Co.
Richard J. Reiss	Reiss S. S. Co.	Steelton	Bethlehem Transpn. Corp.
Richard Trimble	Pittsburgh S. S. Co.	Sultana	Nicholson-Universal S. S. Co.
Richard V. Lindabury	Do.	Sumar	David C. Whitney.
Richfield	Richfield Oil Co.	Suriname	United Fruit S. S. Corp.
Richmond	Standard Oil Co. of California.	Sylvan Arrow	Standard Transpn. Co.
R. J. Hanna	Do.	Taurus	Interlake S. S. Co.
R. L. Agassiz	Calumet Transpn. Co.	Tejon	Standard Transpn. Co.
Roanoke	Texas Co.	Texan	American-Hawaiian S. S. Co.
Robert E. Lee	Robert E. Lee S. S. Corp.	Texas	Texas Co.
Robert Fulton	Pittsburgh S. S. Co.	Texmar	Calmar S. S. Corp.
Robert Hobson	Interlake S. S. Co.	The Harvester	International Harvester Co.
Robert L. Ireland	Kinney S. S. Co.	Theodore H. Wickwire	American S. S. Co.
Robert Luekenbach	Luekenbach S. S. Co.	Theodore H. Wickwire, jr.	Do.
Robert W. E. Bunsen	Pittsburgh S. S. Co.	Thomas Britt	Lakewood S. S. Co.
Robert W. Stewart	Standard Oil Co. of Indiana.	Thomas F. Cole	Pittsburgh S. S. Co.
Rochester	Vacuum Oil Co.	Thomas H. Wheeler	Standard Shipping Co.
Rose City	Rose City S. S. Co.	Thomas Lynch	Pittsburgh S. S. Co.
Royal Arrow	Standard Transpn. Co.	Thos. O'Shaugnessy	Jenkins S. S. Co.
R. R. Richardson	Pittsburgh S. S. Co.	Tiger	Standard Transpn. Co.
Ruth Alexander	Robert Dollar Co.	Timberman	Pillsbury and Curtis.
R. W. Stewart	Pan-American Petroleum & Transport Co.	Tionesta	Great Lakes Transit Corp.
Saga	Chas. S. Payson.	Tivives	United Fruit S. S. Corp.
Sagaporack	American Scantic Line (Inc.)	T. J. Williams	Standard Shipping Co.
Sage Brush	Shepard S. S. Co.	Tolosa	United Fruit S. S. Co.
Saguache	American Scantic Line (Inc.)	Tulsagas	Associated Oil Co.
Samuel F. B. Morse	Pittsburgh S. S. Co.	Turrialba	United Fruit S. S. Corp.
Samuel H. Squire	Forest City S. S. Co.	Ulua	Do.
Samuel Mather	Interlake S. S. Co.	Utacarbon	Union Oil Co. of California.
San Jose	United Fruit S. S. Corp.	Utowana	Allison V. Armour.
San Mateo	Do.	Vacuum	Vacuum Oil Co.
Sansoma	Nicholson-Universal S. S. Co.	Vagabondia	W. L. Mellon.
Santa Barbara	Grace S. S. Co.		
Santa Elisa	Do.		
Santa Inez	Do.		
Santa Maria	Union Oil Co. of California.		

## COMMERCIAL VESSELS EQUIPPED WITH RADIO COMPASS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Vessel	Owner	Vessel	Owner
Vanda.....	Ernest B. Dane.	William Green.....	Pan-American Petroleum & Transport Co.
Vega.....	Interlake S. S. Co.	Wm. G. Warden.....	Standard Shipping Co.
Venezuela.....	Panama Mail S. S. Co.	William H. Donner.....	Mahoning S. S. Co.
Venus.....	Interlake S. S. Co.	William H. Doheny.....	Pan-American Petroleum & Transport Co.
Verona.....	Do.	William H. Truesdale...	Brown S. S. Co.
Vesta.....	Standard Transpn. Co.	William J. Filbert.....	Pittsburgh S. S. Co.
Victoria.....	Alaska S. S. Co.	William J. Olcott.....	Do.
Victory.....	Interlake S. S. Co.	William K. Field.....	Reiss S. S. Co.
Viking.....	George F. Baker, Jr.	William Livingstone.....	Columbia S. S. Co.
Virginia.....	American S. S. Lines Corp.	William McLaughlan...	Interlake S. S. Co.
Do.....	Texas Co.	William P. Cowan.....	Standard Oil Co. of Indiana.
Virginian.....	American-Hawaiian S. S. Co.	Willfaro.....	Williams S. S. Co.
Walter A. Luckenbach..	Luckenbach S. S. Co.	William P. Palmer.....	Pittsburgh S. S. Co.
Walter Jennings.....	Standard Shipping Co.	William P. Snyder, jr..	Shenango Furnace Co.
Warwick.....	Union Oil Co. of California.	William R. Linn.....	Pittsburgh S. S. Co.
Washington.....	States S. S. Co.	William Nelson.....	J. A. Paisley S. S. Co.
W. C. Richardson.....	Columbia S. S. Co.	William T. Roberts.....	American S. S. Co.
W. C. Teagle.....	Standard Shipping Co.	Willkeno.....	Williams S. S. Co.
W. D. Crawford.....	Virginia S. S. Co.	Willpolo.....	Do.
Western States.....	Detroit & Cleveland Navigation Co.	Willzipo.....	Do.
Western World.....	Munson S. S. Line.	Wind Rush.....	Shepard S. S. Co.
W. H. Libby.....	Standard Shipping Co.	Wisconsin.....	Goodrich Transit Co.
W. H. Tilford.....	Do.	W. J. Hanna.....	Standard Shipping Co.
Wilhelmina.....	Matson Navigation Co.	W. L. Steed.....	Pan-American Petroleum & Transport Co.
Willboro.....	Williams S. S. Co.	Wm. Rockefeller.....	Standard Shipping Co.
Willet.....	U. S. B.	Worrell Clarkson.....	Kinsman Transit Co.
William A. Amberg.....	Producers S. S. Co.	W. S. Miller.....	Standard Oil Co. of California.
William A. McGonagle..	Pittsburgh S. S. Co.	W. S. Rheem.....	Do.
William A. Reiss.....	Reiss S. S. Co.	Wyandotte.....	Wyandotte Transpn. Co.
William B. Davock.....	Interlake S. S. Co.	Yale.....	Los Angeles S. S. Co.
William B. Dickson.....	Pittsburgh S. S. Co.	Yankee Arrow.....	Standard Transpn. Co.
Wm. Boyce Thompson..	Sinclair Navigation Co.	Yarmouth.....	Nova Scotia S. S. Corp.
William B. Schiller.....	Pittsburgh S. S. Co.	Yorba Linda.....	Standard Transpn. Co.
William D. Crawford.....	Virginia S. S. Co.	Yorkmar.....	Calmar S. S. Corp.
William E. Corey.....	Pittsburgh S. S. Co.	Youngstown.....	Brier Hill S. S. Co.
William Edenborn.....	Do.	Yukon.....	Alaska S. S. Co.
William Fitch.....	Jenkins S. S. Co.	Zacapa.....	United Fruit S. S. Corp.
William F. Stifel.....	Columbia S. S. Co.	Zenith City.....	Pittsburgh S. S. Co.



**GOVERNMENT VESSELS EQUIPPED WITH RADIO COMPASS,  
ALPHABETICALLY BY NAMES OF VESSELS**

Vessel	Owner	Vessel	Owner
Acushnet	U. S. Coast Guard.	Crane	U. S. Navy.
Algonquin	Do.	Craven	Do.
Amaranth	Bureau of Lighthouses.	Crocus	Bureau of Lighthouses.
Arizona	U. S. Navy.	Crosby	U. S. Navy.
Arkansas	Do.	Cumberland	U. S. Army.
Aroostook	Do.	Cushing	U. S. Navy.
Aulick	Do.	Cypress	Bureau of Lighthouses.
Ausburne, Charles	Do.	Dale	U. S. Navy.
Aylwin	Do.	Dallas	Do.
Babbitt	Do.	Davis	U. S. Coast Guard.
Badger	Do.	Decatur	U. S. Navy.
Badger, George E.	Do.	Dellwood	U. S. Army.
Bagley	Do.	Dent	U. S. Navy.
Bailey	Do.	Detroit	Do.
Bainbridge	Do.	Dickerson	Do.
Balch	Do.	Discoverer	Coast and Geodetic Survey.
Ballard	Do.	Dorsey	U. S. Navy.
Baltimore	Do.	Doyen	Do.
Bancroft	Do.	Drayton	Do.
Barker	Do.	Edsall	Do.
Barnes, Robert L.	Do.	Edwards	Do.
Barnett	Do.	Edwards, John D.	Do.
Barney	Do.	Elliott	Do.
Barry	Do.	Ellis	Do.
Belknap	Do.	Evans	Do.
Bell	Do.	Fairfax	Do.
Benham	Do.	Farenholt	Do.
Bernadou	Do.	Farquhar	Do.
Biddle	Do.	Farragut	Do.
Billingsley	Do.	Florida	Do.
Borie	Do.	Flusser	Do.
Boxer	Do. <sup>1</sup>	Foote	Do.
Branch	Do.	Ford, John D.	Do.
Breck	Do.	Fox	Do.
Breckinridge	Do.	Gamble	Do.
Breese	Do.	General Royal T.	U. S. Army.
Brooks	Do.	Frank	
Broonie	Do.	Gillis	U. S. Navy.
Bruce	Do.	Gilmer	Do.
Buchanan	Do.	Goff	Do.
Bulmer	Do.	Goldsborough	Do.
Burns	Do.	Grant	U. S. Army.
Burnes, John Francis	Do.	Greene	U. S. Navy.
Bush	Do.	Greer	Do.
Caldwell	Do.	Gregory	U. S. Army.
California	Do.	Gresham	U. S. Coast Guard.
Cambrai	U. S. Army.	Gridley	U. S. Navy.
Carrabasset	U. S. Navy.	Guide	Coast and Geodetic Survey.
Case	Do.	Gwin	U. S. Navy.
Cassin	U. S. Coast Guard.	Hale	Do.
Cedar	Bureau of Lighthouses.	Hamilton	Do.
Champlain	U. S. Coast Guard.	Hamilton, Paul	Do.
Champlin	U. S. Navy.	Haraden	Do.
Chandler	Do.	Harding	Do.
Chase	Do.	Hart	Do.
Chateau Thierry	U. S. Army.	Hatfield	Do.
Chelan	U. S. Coast Guard.	Hazelwood	Do.
Chew	U. S. Navy.	Henshaw	Do.
Childs	Do.	Herbert	Do.
Cincinnati	Do.	Herndon	Do.
Claxton	Do.	Hibiscus	Bureau of Lighthouses.
Clemson	Do.	Hogan	U. S. Navy.
Coghlan	Do.	Hopewell	Do.
Cole	Do.	Hopkins	Do.
Colhoun	Do.	Hovey	Do.
Colorado	Do.	Howard	Do.
Concord	Do.	Hulbert	Do.
Conner	Do.	Hull	Do.
Converse	Do.	Humphreys	Do.
Corry	Do.		
Cowell	Do.		

<sup>1</sup> Operated by the Department of the Interior, Bureau of Education.

GOVERNMENT VESSELS EQUIPPED WITH RADIO COMPASS, ALPHABETICALLY BY  
NAMES OF VESSELS—Continued

Vessel	Owner	Vessel	Owner
Hunt	U. S. Navy.	Milwaukee	U. S. Navy.
Huron	Do.	Mississippi	Do.
Hyacinth	Bureau of Lighthouses.	Modoc	U. S. Coast Guard.
Idaho	U. S. Navy.	Mojave	Do.
Ingraham	Do.	Montgomery	U. S. Navy.
Ingram, Osmund	Do.	Moody	Do.
Isberwood	Do.	Morris	Do.
Israel	Do.	Mugford	Do.
Ivy	Bureau of Lighthouses.	Mullany	Do.
James, Reuben	U. S. Navy.	Murray	Do.
Jarvis	Do.	Nevada	Do.
Jenkins	Do.	New Mexico	Do.
Jones, Jacob	Do.	New York	Do.
Jones, Paul	Do.	Nicholson	Do.
Jones, William	Do.	Noa	Do.
Kane	Do.	Northland	U. S. Coast Guard.
Kennedy	Do.	O'Bannon	U. S. Navy.
Kennison	Do.	O'Brien	Do.
Kidder	Do.	Oklahoma	Do.
Kilty	Do.	Omaha	Do.
Kimberly	Do.	Orchid	Bureau of Lighthouses.
King	Do.	Osborne	U. S. Navy.
Kukul	Bureau of Lighthouses.	Overton	Do.
Lamberton	U. S. Navy.	Palmer	Do.
Lamson	Do.	Parker	Do.
Lansdale	Do.	Parrott	Do.
Lardner	Do.	Paulding, James K.	Do.
Larkspur	Bureau of Lighthouses.	Peary	Do.
Laub	U. S. Navy.	Pennsylvania	Do.
La Vallette	Do.	Pensacola	Do.
Lawrence	Do.	Pequot	U. S. Coast Guard.
Lea	Do.	Percival	U. S. Navy.
Leary	Do.	Perry	Do.
Lexington	Do.	Philip	Do.
Litchfield	Do.	Pillsbury	Do.
Little	Do.	Pioneer	Coast and Geodetic Sur- vey.
Long, J. D.	Do.	Pittsburgh	U. S. Navy.
Luce	Do.	Pontchartrain	U. S. Coast Guard.
Ludlow	Do.	Pope	U. S. Navy.
Lupine	Bureau of Lighthouses.	Preble	Do.
Lydonia	Coast and Geodetic Sur- vey.	Preston	Do.
MacDonough	U. S. Navy.	Preston, William B.	Do.
Mackenzie	Do.	Pruitt	Do.
MacLeish	Do.	Putnam	Do.
Maddox	Do.	Radford	Do.
Magnolia	Bureau of Lighthouses.	Raleigh	Do.
Mahan	U. S. Navy.	Ramsay	Do.
Mangrove	Bureau of Lighthouses.	Rathburne	Do.
Manley	U. S. Navy.	Redwing	U. S. Coast Guard.
Manning	U. S. Coast Guard.	Reid	U. S. Navy.
Manzanita	Bureau of Lighthouses.	Reno	Do.
Marblehead	U. S. Navy.	Renshaw	Do.
Marcus	Do.	Richmond	Do.
Margaret	U. S. Lake Survey.	Ringgold	Do.
Marigold	Bureau of Lighthouses.	Rizal	Do.
Maryland	U. S. Navy.	Robinson	Do.
Mason	Do.	Rochester	Do.
Maury	Do.	Rodgers	Do.
Mayrant	Do.	Roper	Do.
McCall	U. S. Coast Guard.	Rowan	Do.
McCalla	U. S. Navy.	Sacramento	Do.
McCawley	Do.	Salt Lake City	Do.
McCook	Do.	Sampson	Do.
McCormick	Do.	Sands	Do.
McDermut	Do.	Saratoga	Do.
McDougal	U. S. Coast Guard.	Satterlee	Do.
McFarland	U. S. Navy.	Schenck	Do.
McKee	Do.	Schley	Do.
McKee	Do.	Seattle	Do.
McLanahan	Do.	Selfridge	Do.
Meade	Do.	Seminole	U. S. Coast Guard.
Meigs	U. S. Army.	Semmes	U. S. Navy.
Melvin	U. S. Navy.	Seneca	U. S. Coast Guard.
Memphis	Do.	Sequoia	Bureau of Lighthouses.
Mendota	U. S. Coast Guard.	Sharkey	U. S. Navy.
Meredith	U. S. Navy.	Shaw	U. S. Coast Guard.
Mervine	Do.	Shawnee	Do.
Meyer	Do.	Shirk	U. S. Navy.

GOVERNMENT VESSELS EQUIPPED WITH RADIO COMPASS, ALPHABETICALLY BY NAMES OF VESSELS—Continued

Vessel	Owner	Vessel	Owner
Sicard	U. S. Navy.	Thompson, Smith	U. S. Navy.
Sigourney	Do.	Thornton	Do.
Simpson	Do.	Tillman	Do.
Sinclair	Do.	Toucey	Do.
Sloat	Do.	Tracy	Do.
Smith, Robert	Do.	Trenton	Do.
Somers	Do.	Trevor	Do.
Somme	U. S. Army.	Truxtun	Do.
Southard	U. S. Navy.	Tucker	U. S. Coast Guard.
Speedwell	Bureau of Lighthouses.	Tulip	Bureau of Lighthouses.
Sproston	U. S. Navy.	Turner	U. S. Navy.
Spruce	Bureau of Lighthouses.	Twiggs	Do.
Stansbury	U. S. Navy.	Upshur	Do.
Sterrett	Do.	Upshur, Abel P.	Do.
Stevens	Do.	Vega	Do.
Stewart	Do.	Wadsworth	Do.
St. Mihiel	U. S. Army.	Wainwright	U. S. Coast Guard.
Stockton	U. S. Navy.	Walke	U. S. Navy.
Stoddert	Do.	Walker	Do.
Stribling	Do.	Ward	Do.
Stringham	Do.	Ward, Aaron	Do.
Sturtevant	Do.	Warrington	Do.
Sumac	Bureau of Lighthouses.	Wasmuth	Do.
Sumner	U. S. Navy.	Waters	Do.
Swasey	Do.	Welles	Do.
Tahoe	U. S. Coast Guard.	West Virginia	Do.
Talbot	U. S. Navy.	Whipple	Do.
Talbot, J. Fred.	Do.	Wilkes	U. S. Coast Guard.
Tallapoosa	U. S. Coast Guard.	Williams	U. S. Navy.
Tampa	Do.	Williamson	Do.
Tarbell	U. S. Navy.	Wilmington	Do.
Tattnall	Do.	Winslow	Do.
Taylor	Do.	Wood	Do.
Tennessee	Do.	Wood, Welborn C.	Do.
Texas	Do.	Worden	Do.
Thatcher	Do.	Wyoming	Do.
Thomas	Do.	Yarborough	Do.
Do.	U. S. Army.	Yarnall	Do.
Thompson	U. S. Navy.	Zane	Do.
Thompson, Sara	Do.	Zellin	Do.

GOVERNMENT AIRCRAFT EQUIPPED WITH RADIO COMPASS, ALPHABETICALLY BY NAMES OF CRAFT

Name	Owner
Los Angeles	U. S. Navy.

RADIO-COMPASS STATION INSTRUCTIONS

Radio-compass stations are radio stations established on shore equipped with apparatus which enables them to ascertain the direction from which radio signals transmitted by another station emanate.

The procedure to be adopted, which varies to some extent for the different stations and as to the frequency to be used, is explained in the following pages in detail. It is equally necessary that radio operators should study the procedure.

Briefly stated, a ship requiring a bearing calls up the radio station or stations from which it is desired to receive a bearing, singly or together, according to the procedure laid down. The station or stations reply directing the ship to transmit her call sign for a certain period of time, on the conclusion of which the station or stations will signal the bearings (true) of the ship from that station.

The accuracy with which bearings can be taken depends on the conditions outlined below; but, although in general the bearings taken by a station within the sector of calibration can generally be considered accurate to within 2°, the Governments controlling these stations can not accept any responsibility for the consequences of a bearing being inaccurate.

It is, however, pointed out that if at least three radio-compass stations can be employed and if they are so situated as to give intersecting bearings, considerable reliance can be placed upon the result of three simultaneous bearings thus

obtained, provided that the triangle of error formed by the intersection of the bearings is small.

In order to obtain the best results, it is important that the ship should not transmit with too much power. Signals should, however, be fairly strong and clear; great care must be taken to keep the note and strength steady and to pay strict attention to spacing; and the instructions should be rigidly adhered to. Accuracy of bearings will probably be affected if the ship's transmitting instrument is not adjusted to the correct frequency.

It must be borne in mind that it is impossible for the majority of existing radio-compass stations to distinguish between a bearing and its reciprocal (*i. e.*, there is always a possible error of 180°), and that bearings are often unreliable at night and in stormy weather, also when the direction runs roughly parallel with the coast line, or passes alternately over water and land.

There are three systems of radio-compass stations at present operating, viz:

(a) Where each radio-compass station is fitted with transmitting and receiving gear and works independently.

(b) Where several radio-compass stations are connected together by special telegraph cables, being thus controlled by one station which alone is fitted with transmitting apparatus. The master station in such cases is not necessarily a radio-compass station, but may be an ordinary coast station.

(c) Where a ship requires a single bearing only. In this case the vessel calls the radio station belonging to the radio-compass station. The bearing, however, is calculated from the radio-compass station.

*Coast refraction or "land effect."*—In the case of bearings which cut the coast-line at an oblique angle, errors of from 4 to 5° have been reported.

*Sunrise, sunset, or night effects.*—Bearings obtained between about half an hour before sunset and half an hour after sunrise are generally unreliable, on account of the excessive error introduced. These errors are not so great when only an expanse of sea separates the two stations; but in the case of the bearing passing over land, particularly if it is hilly country, the amount of error is abnormal. Changes in the intensity of the signal received also occur at sunset and sunrise, and apart from the above-mentioned variations, changes in the signal strength of the transmitting station have also been observed at these times.

*Caution.*—Bearings signaled as approximate or second class must be treated with grave suspicion, as very considerable errors may exist in such bearings.

*Arc of calibration.*—The arc of calibration is a sector of a circle of which the compass coil at the radio station is the center; the bearings are true from the station (clockwise). Compass bearings are reliable only when they fall within the calibrated arcs. The arc of calibration is subject to change due to conditions existing at the time of calibration. The arcs given in this section are approximate.

*Gnomonic charts.*—On a chart constructed on the gnomonic projection radio-compass bearings can be laid down without correction, due to the fact that on this projection great circles appear as straight lines. There is, however, an angular alteration in this projection which makes it necessary, in order to plot radio bearings, to have a compass rose for each radio-compass station so constructed as to compensate for the angular alteration of the projection at that station.

#### RADIO COMPASS OR DIRECTION-FINDING DEVICES ON BOARD SHIP AND ON SHORE

There are several types of radio compasses; in general, all in common use afloat find the direction of an incoming radio wave by revolving, centering, or orientating a loop or coil with respect to the direction of the wave. A pointer and a graduated dial are usually used to determine the direction from which the wave comes, though in some cases the pointer is mounted directly above the navigational compass and bearings are read from the compass instead of from the graduated dial.

When the former method is used, the radio direction finder on board ship functions in a manner similar to the pelorus; that is, the bearings obtained are relative bearings; true bearings are obtained by applying to the ship's true heading the angle determined by the relative bearing after applying corrections thereto as noted below. When the direction finder is mounted directly over the navigational compass, the compass bearing of the incoming radio wave is read off direct, though this also must be corrected for radio deviation, as described below.

It is important to note that the bearing of an incoming radio wave is subject to quadrantal deviation not unlike a magnetic compass; therefore, whether relative or compass bearings are observed, it is necessary to apply to the observed bearing of the radio wave a certain correction, which is determined by calibration of the



radio compass in order to obtain its actual bearing. This deviation unlike a magnetic compass, depends upon the relative bearing of the radio wave from the ship's head rather than upon the heading of the ship itself. This quadrantal error is due principally to the ship's structure, and though subject to some change may be generally considered constant over a period of several months. In addition, the observed bearing may be affected by variable errors, such as changes in position of wiring, metallic guys, antenna leads, etc. Especially will the open or closed condition of the other radio circuits on board affect the direction of the observed wave. The United States Navy requires all antenna circuits, whether sending or receiving, to be open when observing direction by radio compass. Those using radio direction finding on board ship are cautioned to bear the above possible errors in mind and to keep radio compasses calibrated at all times.

Shore radio-compass stations are calibrated for errors every six months and are checked daily by taking bearings on other shore stations, and care is taken to keep their electrical properties as constant as possible. The bearings sent to ships from shore radio-compass stations have been corrected for all the known errors and give the ship's true bearing from the compass station.

Vessels fitted with direction finder must make the deviation correction for their own apparatus before using table.

*Caution.*—All radio compasses, whether installed on board ship or ashore, are subject to the night effect, an indeterminate error which is sometimes experienced near nightfall and sunrise.

## RADIO BEARING CONVERSION TABLE

The purpose of this table is to readily convert the radio or true bearing into a Mercator bearing so that it may be plotted by the navigator from the regular compass rose of the chart by applying the correction to the true bearing. The table gives the correction at once and interpolation other than by inspection is unnecessary. The radio bearing (usually given to the nearest degree) is sent by the station from 0° to 360° clockwise.

The arguments used in the table to find the correction are the middle latitude and difference of longitude between the vessel's dead reckoning position and the position of the radio station used.

Should the position by dead reckoning differ much from the true position as determined by a first plot, then a retrial, using the new position, is necessary to get the proper correction.

The sign of the correction is as follows:

In north latitude when the vessel is—

$$\frac{\text{eastward}}{\text{westward}} \text{ of the station the correction is } \frac{\text{additive}}{\text{subtractive}}.$$

In south latitude when the vessel is—

$$\frac{\text{eastward}}{\text{westward}} \text{ of the station the correction is } \frac{\text{subtractive}}{\text{additive}}.$$

Should the bearing be observed from the vessel the sign of the correction as given above is reversed. When plotting the line from the radio-compass station from a vessel's observed bearing of the station, the corrected bearing is increased by 180°. It may be noted here as a measure of precaution that the correction tabulated in the tables corrects the bearing only for chart distortion due to the construction of charts on the Mercator projection, and has no relation whatever to error of calibration.

Example: A vessel in latitude 38° 03' N., longitude 56° 00' W., by dead reckoning receives a radio bearing of 118° from Bar Harbor Station (lat. 44° 19' N., long. 68° 11' W.).

To find the Mercator bearing:

*Bar Harbor Gonio:* Lat. 44° 19' N., long. 68° 11' W. D. R. position: Lat. 38° 03' N., long. 56° 00' W. Middle latitude 41° 11' N., difference longitude 12° 11' W.

Enter table with middle latitude 41° and difference longitude 12°.2. Then correction is found to be +4°.1 (since vessel is in north latitude and eastward of station).

Mercator bearing is then radio bearing plus correction, or 118° + 4°.1 = 122°.1.

The table is computed from the formula:

$$\text{Tan. correction} = \frac{\text{Tan. Diff. Long. Sin. Mid. Lat.}}{2}$$



43	3	5	7	8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.2	2.4	2.6	2.7	2.9	3.1	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.5	4.7	4.8	5.0
44	-4	5	7	9	1.1	1.2	1.4	1.6	1.8	2.0	2.2	2.3	2.4	2.6	2.8	3.0	3.2	3.3	3.4	3.5	3.7	3.9	4.0	4.2	4.4	4.6	4.8	5.1
45	-4	5	7	9	1.1	1.2	1.4	1.6	1.8	2.0	2.2	2.3	2.4	2.6	2.8	3.0	3.2	3.3	3.4	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.2
46	-4	5	7	9	1.1	1.3	1.4	1.6	1.8	2.0	2.2	2.4	2.5	2.6	2.8	3.0	3.1	3.2	3.3	3.4	3.5	3.7	3.9	4.1	4.3	4.5	4.7	5.1
47	-4	6	7	9	1.1	1.3	1.5	1.7	1.9	2.1	2.2	2.4	2.5	2.6	2.8	3.0	3.1	3.2	3.3	3.4	3.5	3.7	3.9	4.1	4.3	4.5	4.7	5.1
48	-4	6	8	1.0	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.4
49	-4	6	8	1.0	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.4
50	-4	6	8	1.0	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.4
51	-4	6	8	1.0	1.2	1.4	1.6	1.8	2.0	2.1	2.3	2.5	2.7	2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.4
52	-4	6	8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.5	2.6	2.8	3.0	3.1	3.2	3.3	3.4	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.2
53	-4	6	8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.5	2.6	2.8	3.0	3.1	3.2	3.3	3.4	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.2
54	-4	6	8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.5	2.6	2.8	3.0	3.1	3.2	3.3	3.4	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.2
55	-4	6	8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.5	2.6	2.8	3.0	3.1	3.2	3.3	3.4	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.2
56	-4	6	8	1.0	1.2	1.4	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.6
57	-4	6	8	1.1	1.2	1.4	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.6
58	-4	6	8	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.6
59	-4	6	8	1.1	1.3	1.5	1.7	1.9	2.1	2.4	2.6	2.8	3.0	3.2	3.3	3.4	3.5	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.8
60	-4	6	9	1.1	1.3	1.5	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.3	3.4	3.5	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.8
61	4	7	9	1.1	1.3	1.5	1.8	2.0	2.2	2.4	2.6	2.8	3.1	3.3	3.5	3.6	3.8	4.0	4.2	4.4	4.6	4.9	5.1	5.3	5.5	5.8	6.0	6.3
62	4	7	9	1.1	1.3	1.5	1.8	2.0	2.2	2.4	2.6	2.9	3.1	3.3	3.6	3.8	4.0	4.2	4.4	4.6	4.8	4.9	5.1	5.3	5.5	5.8	6.1	6.4

The United States naval radio-compass stations developed by the United States Navy are maintained by the Navy Department.

In order to maintain a high state of efficiency at these stations, all vessels are invited to use them freely in obtaining radio-compass bearings at all times except the first 10 minutes of each hour in clear weather. There is no charge for this service.

These stations will furnish radio bearings to mariners of all vessels equipped with radiotelegraph transmitters.

While these bearings should not lead a mariner to neglect other precautions such as the use of the lead, etc., during a fog they will greatly reduce the dangers to mariners who are compelled for any reason to proceed during foggy or misty weather.

These radio-compass stations may be used to assist the mariner in closing the land during fog or poor visibility, but they may also be used to obtain the positions of vessels at sea, when for any reason positions can not be obtained by other means.

The maximum distance for which bearings from these stations are accurate is 150 miles. But accurate positions can not be plotted on a Mercator chart when the station is more than 50 miles distant without first correcting the bearing. Radio bearings are great circles, and this correction is not in any sense a correction of the bearing itself, but merely a correction to enable the bearing to be plotted on a Mercator projection without angular distortion. Rules for the application of this correction are described above.

On a chart constructed on the gnomonic projection radio-compass bearings can be laid down without correction, due to the fact that on this projection great circles appear as straight lines. There is, however, an angular alteration in this projection which makes it necessary, in order to plot radio-compass bearings, to have a compass rose for each radio-compass station so constructed as to compensate for the angular alteration of the projection at that station.

Radio-compass stations are divided into two classes:

(a) Single stations, operating independently and furnishing a single bearing.

(b) Harbor entrance groups. All stations in harbor entrance groups are connected to and controlled by the master station; all stations of the group take bearings simultaneously and these bearings are transmitted to the ship requesting them by the control station.

Where only one radio-compass station is available, the mariner may fix his position by two or more bearings from the station with the distance run between, or may use the bearings as a line of position, or as a danger bearing. Or the bearing may be crossed with a line of position obtained from an observation of an astronomical body to establish a fix.

*Frequencies (wave lengths).*—All independent and group radio-compass stations keep watch on 375 (800). Only this frequency should be used to call and work with these stations.

*Calling a radio-compass station.*—To obtain a bearing from independent radio-compass stations, call the station which the bearing is desired in the usual manner and request bearings by means of the conventional signal given hereafter. Simultaneous bearings from two or more compass stations can be obtained by making the call include the other radio-compass stations desired.

To obtain bearings from the harbor entrance group radio-compass stations carry out the procedure previously given. The radio-compass master station only will answer.

(a) A ship calling the radio-compass station or master station should make the abbreviation QTE? ("What is my bearing?") This request will be answered by the radio-compass station or control station, and when ready to observe the radio bearing it will send the signal K, indicating to the ship to commence testing—i. e., repeating its call sign and the sign MO for a period of 45 seconds. The signal should be made slowly with the dashes considerably prolonged.

(b) The testing should be made on 375 (800), upon the completion of which the ship should await reply from the radio-compass station.



(c) The radio-compass station or master station will then reply, repeating the appreciation QTE ("Your bearing from — was — degrees") followed by the bearing in degrees given by a group of three figures, 000 to 360, indicating the true bearing in degrees of the ship station from the radio-compass station, and then the time group giving the time of observation in local standard time. In the case of more than one radio-compass station connected by land lint only, the station originally called will answer. This station will combine all the bearings taken by itself and associated stations into one message, which gives each bearing observed immediately after the name of the station making the observation.

All radio-compass stations transmit on 375 (800).

EXAMPLE

A ship (call sign KVAE) desires to get bearings from the Delaware Bay entrance group (call sign NSD). The following procedure is used:

NSD NSD DE KVAE KVAE — . . . — QTE . . . — . . . — . . . —  
 KVAE DE NSD — . . —  
 NSD DE KVAE — . . . — QTE . . . — . . . KVAE MO KVAE MO . . . . .  
 (Making call sign KVAE followed by MO for 45 seconds, prolonging the dashes)  
 . . . . . KVAE . . . — . . . —  
 KVAE DE NSD — . . . — QTE Cape May Gonio 120 Cape Henlopen Gonio 110  
 Bethany Beach Gonio 085 at 0126 . . . — . . . —  
 NSD DE KVAE — . . . — 120 110 085 at 0126 . . . — . . . — . . . —  
 KVAE DE NSD . . . — . . . — . . . —

This method is the only authorized procedure for calling, answering, and testing, and should be followed exactly. The testing period of 45 seconds should not be exceeded.

Mariners who do not follow the prescribed procedure exactly occasion delay to themselves in obtaining bearings and to other mariners who may be waiting for an opportunity to use the radio-compass stations.

*Danger from reciprocal bearings.*—When a single bearing is furnished there is a possibility of an error of approximately 180°, as the operator at the radio-compass station can not always determine on which side of the station the vessel lies. Certain radio-compass stations, particularly those on islands or extended capes, are equipped to furnish two corrected true bearings for any observation. Such bearings when furnished vessels may differ by approximately 180°, and whichever bearing is suitable should be used.

*Caution.*—Mariners receiving bearings which are evidently the approximate reciprocal of the correct bearing should never attempt to correct these bearings by applying a correction of 180°, as such correction would not include the correction necessary on account of deviation at the compass station.

An error of as large as 30° may be introduced by mariners applying an arbitrary correction of 180° to such bearings. Vessels receiving bearings manifestly requiring an approximate 180° correction should request the other bearing from the radio-compass station if not previously furnished.

Bearings, except in the case of the approximate reciprocal bearings, should be accurate within 2° of arc, provided the transmitting equipment on board vessels is tuned sharply to 375 (800). Operators should use sufficiently wide coupling to obtain low decrement. If radio transmitters are not tuned sharply, it is difficult to obtain bearings that are sufficiently accurate for navigation purposes.

## INTERNATIONAL MORSE CODE AND CONVENTIONAL SIGNALS

[To be used for all general public-service radio communication. (1) A dash is equal to three dots; (2) the space between parts of the same letter is equal to one dot; (3) the space between two letters is equal to three dots; (4) the space between two words is equal to five dots]

A . —	Period.....	.....
B — . . . .	Semicolon.....	— . . . .
C — . — . .	Comma.....	. — . — . —
D — . . .	Colon.....	— — — . . . .
E .	Interrogation.....	. . — . . . .
F . . . . .	Exclamation point.....	— — . . . —
G — — . .	Apостrophe.....	. — — — . . .
H . . . . .	Hyphen.....	— . . . . .
I . .	Bar indicating fraction.....	— . . . . .
J . — — — —	Parenthesis.....	— . — . — . —
K — . — .	Inverted commas.....	. . . . . . .
L . . . . .	Underline.....	. . — . . . —
M — — — —	Double dash.....	— . . . . —
N — . .	Distress call.....	. . . — — . . . . .
O — — — —	Attention call to precede every transmission...	— . . . . .
P . — — . .	General inquiry call.....	— . . . . — . —
Q — — . . —	From (de).....	— . . . .
R . . . .	Invitation to transmit (go ahead).....	— . . . .
S . . . .	Warning—high power.....	— — . . . . —
T — — — —	Question (please repeat after . . . .)—interrupting long messages.....	. . — . . . . .
U . . . .	Wait.....	. . . . .
V . . . . .	Break (Bk.) (double dash).....	— . . . . —
W . — — — —	Understand.....	. . . . .
X — . . . .	Error.....	. . . . . . .
Y — . . . .	Received (O. K.).....	. . . . .
Z — — . . . .	Position report (to precede all position messages).....	— . . . . .
Ä (German)		
Á or Æ (Spanish-Scandinavian)		
CH (German-Spanish)		
É (French)		
Ñ (Spanish)		
Ö (German)		
Û (German)		
1 . — — — —		
2 . . — — — —		
3 . . . . .		
4 . . . . .		
5 . . . . .	End of each message (cross).....	. . — . . . .
6 — . . . . .	Transmission finished (end of work) (conclusion of correspondence).....	. . . . . . .
7 — — . . . .		
8 — — . . . .		
9 — — — . . . .		
0 — — — — —		

LIST OF ABBREVIATIONS TO BE USED IN RADIO TRANSMISSIONS—  
Q CODE<sup>1</sup>

ABBREVIATIONS TO BE USED IN ALL SERVICES

Abbreviation	Question	Answer
QRA	What is the name of your station?.....	The name of my station is .....
QRB	At what approximate distance are you from my station?.....	The approximate distance between our stations is ..... nautical miles (or ..... kilometers).
QRC	By what private company (or government administration) are the accounts for charges of your station liquidated?.....	The accounts for charges of my station are liquidated by the ..... private company (or by the government administration, of .....).
QRD	Where are you going?.....	I am going to .....
QRE	What is the nationality of your station?.....	The nationality of my station is .....
QRF	Where do you come from?.....	I come from .....
QRG	Will you indicate to me my exact wave length in meters (or frequency in kilocycles)?.....	Your exact wave length is ..... meters (or ..... kilocycles).
QRH	What is your exact wave length in meters (frequency in kilocycles)?.....	My exact wave length is ..... meters (frequency ..... kilocycles).
QRI	Is my tone bad?.....	Your tone is bad.
QRJ	Are you receiving me badly? Are my signals weak?.....	I can not receive you. Your signals are too weak.
QRK	Are you receiving me well? Are my signals good?.....	I receive you well. Your signals are good.
QRL	Are you busy?.....	I am busy. Or, (I am busy with .....). Please do not interfere.
QRM	Are you being interfered?.....	I am being interfered with.
QRN	Are you troubled by atmospherics?.....	I am troubled by atmospherics.
QRO	Must I increase power?.....	Increase power.
QRP	Must I decrease power?.....	Decrease power.
QRS	Must I send faster?.....	Send faster (..... words per minute).
QRQ	Must I send slowly?.....	Send more slowly (..... words per minute).
QRT	Must I stop sending?.....	Stop sending.
QRU	Have you anything for me?.....	I have nothing for you.
QRV	Must I send a series of V's?.....	Send a series of V's.
QRW	Must I advise ..... that you are calling him?.....	Please advise ..... that I am calling him.
QRX	Must I wait? When will you call me again?.....	Wait until I have finished communicating with ..... I will call you immediately (or at ..... o'clock).
QRY	Which is my turn?.....	Your turn is No. .... (or according to any other indication).
QRZ	By whom am I being called?.....	You are being called by .....
QSA	What is the strength of my signals (1 to 5)?.....	The strength of your signals is ..... (1 to 5).
QSB	Does the strength of my signals vary?.....	The strength of your signals varies.
QSC	Do my signals disappear entirely at intervals?.....	Your signals disappear entirely at intervals.
QSD	Is my keying bad?.....	Your keying is bad.
QSE	Are my signals distinct?.....	Your signals are unreadable.
QSF	Is my automatic transmission good?.....	Your signals run together.
QSG	Must I transmit the telegrams by a series of 5, 10 (or according to any other indication)?.....	Your automatic transmission fades out.
QSH	Must I send one telegram at a time, repeating it twice?.....	Transmit the telegrams by a series of 5, 10 (or according to any other indication).
QSI	Must I send the telegrams in alternate order without repetition?.....	Transmit one telegram at a time, repeating it twice.
QSJ	What is the charge to be collected per word for ..... including your internal telegraph charge?.....	Send the telegrams in alternate order without repetition.
QSK	Must I suspend traffic? At what time will you call me again?.....	The charge to be collected per word for ..... is ..... francs, including my internal telegraph charge.
QSL	Can you give me acknowledgment of receipt?.....	Suspend traffic. I will call you again at ..... (o'clock).
QSM	Have you received my acknowledgment of receipt?.....	I give you acknowledgment of receipt.
QSN	Can you receive me now? Must I continue to listen?.....	I have not received your acknowledgment of receipt.
QSO	Can you communicate with ..... directly (or through the intermediary of .....)?.....	I can not receive you now. Continue to listen.
QSP	Will you relay to ..... free of charge?.....	I can communicate with ..... directly (or through the intermediary of .....).
QSQ	Must I send each word or group once only?.....	I will relay to ..... free of charge.
QSR	Has the distress call received from ..... been attended to?.....	Send each word or group once only.
QSU	Must I send on ..... meters (or ..... kilocycles) waves of Type A1, A2, A3, or B?.....	The distress call received from ..... has been attended to by .....
QSV	Must I shift to the wave of ..... meters (or of ..... kilocycles), for the balance of our communications, and continue after having sent several V's?.....	Send on ..... meters (or on ..... kilocycles), waves of Type A1, A2, A3, or B. I am listening for you.
QSW	Will you send on ..... meters (or on ..... kilocycles) waves of Type A1, A2, A3, or B?.....	Shift to wave of ..... meters (or of ..... kilocycles) for the balance of our communications and continue after having sent several V's.
		I will send on ..... meters (or ..... kilocycles) waves of Type A1, A2, A3, or B. Continue to listen.

<sup>1</sup> The abbreviations take the form of questions when they are followed by question marks.

LIST OF ABBREVIATIONS TO BE USED IN RADIO TRANSMISSIONS—Q CODE—  
Continued

## ABBREVIATIONS TO BE USED IN ALL SERVICES—Continued

Abbreviation	Question	Answer
QSX	Does my wave length (frequency) vary? .....	Your wave length (frequency) varies.
QSY	Must I send on the wave of ..... meters (or ..... kilocycles) without changing the type of wave?	Send on the wave of ..... meters (or ..... kilocycles) without changing the type of wave.
QSZ	Must I send each word or group twice? .....	Send each word or group twice.
QTA	Must I cancel telegram No. .... as if it had not been sent?	Cancel telegram No. .... as if it had not been sent.
QTB	Do you agree with my word count? .....	I do not agree with your word count; I shall repeat the first letter of each word and the first figure of each number.
QTC	How many telegrams have you to send? .....	I have ..... telegrams for you or for .....
QTD	Is the word "count" which I am confirming to you accepted?	The word count which you confirm to me is accepted.
QTE	What is my true bearing? (or) .....	Your true bearing is ..... degrees (or) .....
QTE	What is my true bearing relative to? .....	Your true bearing relative to ..... is ..... degrees at ..... (o'clock).
QTF	Will you give me the position of my station based on the bearings taken by the radio-compass stations which you control?	The position of your station based on the bearings taken by the radiocompass stations which I control is ..... latitude ..... longitude.
QTG	Will you transmit your call signal for one minute on a wave length of ..... meters (or ..... kilocycles) in order that I may take your radio-compass bearing?	I am sending my call signal for one minute on the wave length of ..... meters (or ..... kilocycles) in order that you may take my radio-compass bearing.
QTH	What is your position in latitude and longitude (or according to any other indication)?	My position is ..... latitude ..... longitude (or according to any other indication).
QTI	What is your true course? .....	My true course is ..... degrees.
QTI	What is your speed? .....	My speed is ..... knots, or ..... kilometers per hour.
QTK	What is the true bearing of ..... relative to you?	The true bearing of ..... relative to me is ..... degrees at ..... (o'clock).
QTL	Send radio signals to enable me to determine my bearing with respect to the radiobeacon.	I am sending radio signals to permit you to determine your bearing with respect to the radiobeacon.
QTM	Send radio signals and submarine sound signals to enable me to determine my bearing and my distance.	I am sending radio signals and submarine sound signals to permit you to determine your bearing and your distance.
QTN	Can you take the bearing of my station (or of ..... ) relative to you?	I can not take the bearing of your station (or of ..... ) relative to my station.
QTP	Are you going to enter the dock (or the port)? .....	I am going to enter the dock (or the port).
QTR	What is the exact time? .....	The exact time is .....
QTS	What is the true bearing of your station relative to me?	The true bearing of my station relative to you is ..... at ..... (o'clock).
QTU	What are the hours during which your station is open?	My station is open from ..... to .....

## ABBREVIATIONS MORE ESPECIALLY USED IN THE AIRCRAFT RADIO SERVICE

QAA	At what time do you expect to arrive at .....?	I expect to arrive at ..... at ..... (o'clock).
QAB	Are you en route to .....?	I am en route to ..... or Go to .....
QAC	Are you returning to .....?	I am returning to ..... or Return to .....
QAD	At what time did you leave .....? (place of departure).	I left ..... (place of departure) at ..... (o'clock).
QAE	Have you news of ..... (call signal of the aircraft station)?	I have no news of ..... (call signal of the aircraft station).
QAF	At what time did you pass .....?	I passed ..... at ..... (o'clock).
QAH	What is your height? .....	My height is ..... meters (or according to any other indication).
QAI	Has any aircraft signaled in my neighborhood?	No aircraft has signaled in your neighborhood.
QAJ	Must I look for another aircraft in my neighborhood?	Look for another aircraft in your neighborhood (or) Look for ..... (call signal of the aircraft station) which was flying near ..... (or in the direction of ..... ) at ..... (o'clock).
QAK	On what wave are you going to send the meteorological warning messages?	I am going to send the meteorological warning messages on wave length of ..... meters (or ..... kilocycles).
QAL	Are you going to land at .....?	I am going to land at ..... or Land .....



LIST OF ABBREVIATIONS TO BE USED IN RADIO TRANSMISSIONS—Q CODE—  
Continued

ABBREVIATIONS MORE ESPECIALLY USED IN THE AIRCRAFT RADIO SERVICE—  
Continued

Abbr- via- tion	Question	Answer
QAM	Can you give me the latest meteorological message concerning weather for ..... (place of observation)?	Here is the latest meteorological message concerning weather for ..... (place of observation).
QAN	Can you give me the latest meteorological message concerning surface wind for ..... (place of observation)?	Here is the latest meteorological message concerning surface wind for ..... (place of observation).
QAO	Can you give me the latest meteorological message concerning upper wind for ..... (place of observation)?	Here is the latest meteorological message concerning upper wind for ..... (place of observation).
QAP	Must I continue to listen for you (or for ..... ) on ..... meters (or ..... kilocycle)?	Continue to listen for me (or for ..... ), on ..... meters (or ..... kilocycles).
QAQ	Will you hasten the reply to message No. .... (or in accordance with any other indication)?	I hasten the reply to message No. .... (or in accordance with any other indication).
QAR	Must I reply to ..... for you?	Reply to ..... for me.
QAS	Must I send message No. .... (or in accordance with any other indication) to .....?	Send message No. .... (or in accordance with any other indication) to .....
QAT	Must I continue to send?	Listen before sending; you are interfering; or Listen before sending; you are sending at the same time as .....
QAU	What is the last message received by you from .....?	The last message received by me from ..... is .....
QAV	Are you calling me? or Are you calling ..... (call signal of the aircraft station)?	I am calling you, or I am calling ..... (call signal of the aircraft station).
QAW	Must I cease listening until ..... (o'clock)?	Cease listening until ..... (o'clock).
QAX	Have you received the urgent signal sent by ..... (call signal of the aircraft station)?	I received the urgent signal sent by ..... (call signal of the aircraft station) at ..... (o'clock).
QAY	Have you received the distress signal sent by ..... (call signal of the aircraft station)?	I received the distress signal sent by ..... (call signal of the aircraft station) at ..... (o'clock).
QAZ	Can you receive in spite of the storm?	I can no longer receive. I am going off watch because of the storm.

MISCELLANEOUS ABBREVIATIONS

Abbr- via- tion	Meaning
C	Yes.
N	No.
P	Announcement of private telegram in the mobile service (to be used as a prefix).
W	Word or words.
AA	"All after ....." (To be used after a question mark to request a repetition.)
AB	"All before ....." (To be used after a question mark to request a repetition.)
AL	"All that has just been sent" (To be used after a question mark to request a repetition.)
BQ	"All between ....." (To be used after a question mark to request a repetition.)
BN	Announcement of reply to a request for rectification.
CL	"I am closing my station."
CS	Call signal (to be used to ask repetition of a call signal).
DB	"I can not give you a bearing, you are not in the calibrated sector of this station."
DC	"The minimum of your signal is suitable for the bearing."
DF	Your bearing at ..... (o'clock) was ..... degrees, in the doubtful sector of this station, with a possible error of two degrees.
DG	Please advise me if you note an error in the bearing given.
DI	Bearing doubtful in consequence of the bad quality of your signal.
IJ	Bearing doubtful because of interference.
DL	Your bearing at ..... (o'clock) was ..... degrees in the doubtful sector of this station.
DO	Bearing doubtful. Ask for another bearing later, or at ..... (o'clock).
DP	Beyond 50 miles, possible error of bearing can attain two degrees.
DS	Adjust your transmitter, the minimum of your signal is too broad.
DT	I can not furnish you with a bearing; the minimum of your signal is too broad.
DY	This station is bilateral; what is your approximate direction in degrees relative to this station?
DZ	Your bearing is reciprocal (to be used only by the central station of a group of radio-compass stations when it is addressed to other stations of the same group).
ER	"Here ....." (To be used before the name of the mobile station in the sending of route indications.)
GA	"Resume sending." (To be used more especially in the fixed service.)
JM	"If I may send, make a series of dashes. To stop my transmission, make a series of dots." (Not to be used on 600 meters (500 kilocycles).)

## LIST OF ABBREVIATIONS TO BE USED IN RADIO TRANSMISSIONS—Q CODE—Con.

## MISCELLANEOUS ABBREVIATIONS—Continued

Abbreviation	Meaning
MN	Minute or minutes (to be used to indicate the duration of a wait).
NW	"I resume transmission." (To be used more especially in the fixed service.)
OK	"We are in agreement."
RQ	Announcement of a request for rectification.
SA	Announcement of the name of an aircraft station (to be used in the sending of indications of passage).
SF	Announcement of the name of an aeronautic station.
SN	Announcement of the name of a coast station.
SS	Announcement of the name of a ship station (to be used in the transmission of indications of passage).
TR	Announcement of the request or of the sending of indications concerning a mobile station.
AU	"Are we in agreement?"
WA	"Word after -----" (To be used after a question mark to request a repetition.)
WB	"Word before -----" (To be used after a question mark to request a repetition.)
XS	Atmospherics.
YS	"See your service advice."
ABV	"Shorten the traffic by using the International Abbreviations."
	or
	"Repeat (or I repeat) the figures in abbreviation form."
ADR	Address (to be used after a question mark to request a repetition).
CFM	"Confirm" or "I confirm."
COL	"Collate" or "I collate."
ITP	"The punctuation counts."
MSG	Announcement of telegram concerning ship service only (to be used as a prefix).
PBL	Preamble (to be used after a question to request a repetition).
REF	"Referring to -----" or "Refer to -----"
RPT	"Repeat" or "I repeat" only to be used to ask or to give repetition of all or part of the traffic by making the corresponding indication after the abbreviation.
SIG	Signature (to be used after a question mark to request a repetition).
SVC	Announcement of a service telegram concerning private traffic (to be used as a prefix).
TFC	Traffic.
TXT	Text (to be used after a question mark to request a repetition).

## LIST OF RADIO DISTRICTS

The department has the country divided into nine districts for the expeditious handling of business. Each district is in charge of a "supervisor of radio," to whom communications relative to operators' licenses, station licenses, and other matter pertaining only to the particular district concerned should be addressed. Correspondence for branch offices should be addressed to the "Radio inspector." Communications of a general nature should be addressed to the "Chief, Radio Division, Department of Commerce, Washington, D. C."

Hereunder is a list of the districts, giving the address of the supervisors and the territory embraced by each district. These districts should not be confused with the five zones established by the act (February 23, 1927, sec. 2) creating the Federal Radio Commission.

1. Headquarters, Customhouse, Boston, Mass.: Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut.

2. Headquarters, Subtreasury Building, New York, N. Y.: New York (county of New York, Staten Island, Long Island, and counties on the Hudson River to and including Schenectady, Albany, and Rensselaer), and New Jersey (counties of Bergen, Passaic, Essex, Union, Middlesex, Monmouth, Hudson, and Ocean).

3. Headquarters, Detention Building, Immigration Station, Fort McHenry, Md., Baltimore, Md.: New Jersey (all counties not included in second district), Pennsylvania (counties of Philadelphia, Delaware, all counties south of the Blue Mountains, and Franklin County), Delaware, Maryland, Virginia, District of Columbia.

4. Headquarters, Post Office Building, Atlanta, Ga.: North Carolina, South Carolina, Georgia, Florida, Tennessee, Alabama, Porto Rico, Virgin Islands, Windward Passage.

5. Headquarters, Customhouse, New Orleans, La. Branch office in Burt Building, Dallas, Tex.: Mississippi, Louisiana, Texas, Arkansas, Oklahoma, New Mexico.

6. Headquarters, Customhouse, San Francisco, Calif. Branch office in City Hall Building, Los Angeles, Calif.: California, Hawaii, Nevada, Utah, Arizona.

7. Headquarters, L. C. Smith Building, Seattle, Wash.: Oregon, Washington, Alaska, Idaho, Montana, Wyoming.

8. Headquarters, David Stott Building, Detroit, Mich. Branch office in Post Office Building, Buffalo, N. Y.: New York (all counties not included in the second district), Pennsylvania (all counties not included in the third district), West Virginia, Ohio, Michigan (Lower Peninsula).

9. Headquarters, Engineering Building, Chicago, Ill. Branch office in Federal Building, Kansas City, Mo. Branch office in Federal Building, Duluth, Minn., open during lake navigation season. Branch office in St. Paul, Minn., open during period when lake navigation season is closed: Indiana, Illinois, Wisconsin, Michigan (Upper Peninsula), Minnesota, Kentucky, Missouri, Kansas, Colorado, Iowa, Nebraska, South Dakota, North Dakota.









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