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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

702 East 13th St.
PORTLAND, OREGON

**UNITED STATES DEPARTMENT OF COMMERCE
RADIO DIVISION**

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UNITED STATES DEPARTMENT OF COMMERCE
RADIO DIVISION

COMMERCIAL AND GOVERNMENT
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UNITED STATES

foreign 1/2 on 207 London phone

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ADDITIONAL 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.

△=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 ¹	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 ¹	Egypt.
CZA-CZZ	Monaco.	SUA-SUZ	
D	Germany.	SVA-SZZ	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.
HIA-HIZ	Dominican Republic.	VHA-VMZ	Australia.
HJA-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-XFZ	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 ¹		YSA-YSZ	Republic of El Salvador.
OFA-OGZ ¹	Finland.	YVA-YVZ	Venezuela.
OHA-OHZ	Czechoslovakia.	ZAA-ZAZ	Albania.
OKA-OKZ	Belgium and colonies.	ZBA-ZDZ ¹	British colonies and protectorates.
ONA-OTZ		ZKA-ZMZ	New Zealand.
OUA-OZZ	Denmark.	ZPA-ZPZ	Paraguay.
PAA-PIZ	Netherlands.	ZSA-ZUZ	Union of South Africa.
PJA-PJZ	Curacao.		
PKA-POZ	Dutch East Indies.		

¹ 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 WVZ 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—Continued

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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	WPF	425 (705), 500 (600)	P	X	U. S. S. B.
Candle, Alaska	FX	KGF	414 (725), 430 (625), 500 (600)	PR	(19)	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	(9)	Do.
Catbalogan, P. I., radio (Samar)	FC	KAC	273 (1,100), 308 (975), 353 (850), 400 (750), 500 (600), 632 (475)	PG	(19)	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	(19)	Do.
Cebu, P. I.	FX	CTL	5434 (54.7)	PR	N	Radio Corporation of the Philippines.
Cebu, P. I. (KUI)	FX	KUI	0,383 (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), 3,010 (99.7), 3,286 (91.2), 4,188 (71.6), 5,585 (53.7), 5,990 (50.08)	P	X	Boeing Air Transport (Inc.).
Celba, 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), 5,238 (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 ²¹	FC, FX	WFL	154 (1,950), 165 (1,820), 410 (730), 425 (705)	PG, PR	(22)	I. R. T. Co.
Do. ²³	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), 430 (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.

RADIO DIVISION, DEPARTMENT OF COMMERCE

Clearwater, Calif. (Los Angeles)-----	FX	KNR	55.36 (5,420), 79.32 (3,782), 92.76 (32.34), 4,396 (63.243), 4,400.5 (63.18), 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 (720), 500 (600), 4,196 (71.496), 5,525 (54.3), 8,670 (34.60), 11,050 (27.15), 11,380 (26.36), 16,575 (18.099), 16,580 (18.094), 16,900 (17.751), 21,620 (13.876), 22,100 (13.575).	PG	N	Do.
Cleveland, Ohio, radio ²⁵ -----	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)-----	P	X	Western Air Express (Inc.).
Do.-----	FA, AB	KST	420 (714)-----	P		Transcontinental Air Transport (Inc.).
Columbus, Ohio-----	FX	WCL	165 (1,818), 171 (1,754)-----	PR	(26)	I. R. T. Co.
Do.-----	FA, AB	WHG	393 (763)-----	P		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	(13)	Philippine Insular Government.
Dapitan, P. I., radio (Zamboanga)-----	FC	KAD	214 (1,400) to 500 (600)-----	PG	(27)	Do.
Darlington, Md. (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 (94.3), 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.
Dearborn, 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	KQSL	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 ²⁵ -----	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 ²⁹ -----	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	(29)	I. R. T. Co.
Do. ³¹ -----	FC, FX	WRL	143 (2,100), 167 (1,795), 179 (1,675), 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	WSH	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

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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	KGIU	3,402 (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), 400 (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	KGSQ	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	X	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	KGIJ	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.
Guam, Guam.....	FX	KTA	6,815 (44.02), 6,875 (43.64), 7,655 (39.00), 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).....	PR	N	M. R. T. Co.

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Harrisburg, Pa.-----	FX	WBA	(20.35), 14,755 (20.335), 14,770 (20.31), 17,140 (17.503), 17,420 (17.222), 17,660 (16.989), 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).	P	X	Pennsylvania State Police.
Do-----	FX	WKB	250 (1,200)-----	P	X	Headquarters Troop, One hundred and fourth Cavalry, Pennsylvania Na- tional 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	(31)	Pennsylvania Power & Light Co.
Heceta Island, Alaska-----	FC, FX	KGG	180 (1,667), 414 (725), 500 (600)-----	P	X	Nakat Packing Corp.
Hialeah, Fla., radio-----	FC, FX	WAX	53.45 (5,612), 77 (3,900), 80.5 (3,725), 143 (2,100), 145 (2,070), 452 (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 (26.50), 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	34.50 (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), 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).	PR	(21)	Do.
Hilo, Hawaii-----	FX	KLN	442 (680), 4,212 (71.2), 5,720 (52.45)-----	PR	(36)	Mutual Telephone Co.
Hinatuan, P. I., radio (Surigao)-----	FC	KAH	306 (980), 414 (725), 500 (600)-----	PG	(9)	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 (40.33), 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	(37)	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	(38)	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), 429 (700), 500 (600)-----	P	X	Northwestern Fisheries Co.
Hydaburg, Alaska-----	FX	KGIP	179 (1,676), 191 (1,571)-----	PR	Y	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.

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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	KGJB	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	2,506 (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.).
Isabela de Basilan, P. I., radio (Zamboanga).-----	FX	KPN	1,500 (200)-----	PR	(30)	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 (1,905), 250 (1,200), 500 (600)-----	PG	(9)	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	KIE	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), 9,290 (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 (15.108), 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	Chilkat Oil Co.
Kaunapalapau, Hawaii-----	FX	KRQ	3,332 (90)-----	P	X	Hawaiian Pineapple Co.

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Kaunakakai, Hawaii (Molokai Island).	FX	KHO	442 (680), 4,212 (71.2), 4,455 (67.34), 5,720 (52.45)	PR	(28)	Mutual Telephone Co.
Kawaihae, Hawaii	FX	KHN	445 (675), 500 (600)	PR	(28)	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 (1,610), 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 (656.5)	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	(29)	Libby, McNeill & Libby.
Koko Kea, Hawaii. (See Kahuku)		KIE				
Kukak Bay, Alaska	FX	KJP	429 (700)	P	X	Hemrich Packing Co.
Kusilof, Alaska	FX	KZY	500 (600)	P	X	F. W. Williamson.
Kvichak, Alaska	FX	KHB	180 (1,667), 429 (700), 500 (600)	P	X	Alaska Packers Assn.
Kvichak (permanently moored scow in Koggiung River, Alaska).	FX	KVQ	do.	P	X	Do.
Kvichak, Alaska	FC, FX	KYM	500 (600), 3,490 (86)	P	X	Bristol Bay Packing Co.
Lake Bay, Alaska	FC, FX	KZO	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 (94.0), 3,178 (94.4), 3,184 (94.2), 3,238 (92.05), 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 (1,050), 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 (1,000), 500 (600), 5,742 (41.5)	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	2,508 (119.7), 3,010 (99.7), 3,286 (91.2), 4,188 (71.6), 5,585 (53.7), 5,990 (50.03).	P	X	Boeing Air Transport (Inc.).
Linden, N. J.	FX	WMU	7,775 (38.68), 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 (1,050), 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 (29.07).	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 (99.7), 3,286 (91.2), 5,990 (50.03)	P	X	Boeing Air Transport, (Inc.).
Los Angeles, Calif. (Rogers Field)	FA, FX	KGJV	3,492 (85.010), 6,230 (48.15)	P	X	Maddux Air Lines (Inc.).
Los Angeles, Calif.	FX	KG TI	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 (40.20), 9,410 (31.88), 10,930 (27.45), 14,860 (20.10), 14,890 (20.15), 18,820 (15.94), 22,040 (13.251).	PR	N	Robert Dollar Co.

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Station	Class	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Los Angeles, Calif. (See Clearwater, Calif.)		KOK				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), 8,930 (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 ⁴¹	FC, FX	WLD	174 (1,725), 410 (730), 425 (705), 454 (660)	PG, PR	N	Pere Marquette Railway Co.
Lumbarso, P. I.	FC	KBM	545 (550)	P		Hercules Lumber Co.
Mackinac Island, Mich., radio ⁴²	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	(4)	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), 5,535 (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.

RADIO DIVISION, DEPARTMENT OF COMMERCE

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 (69.4), 5,555 (53.97), 11,110 (26.98), 16,665 (17.99)	PG	N	Robert Dollar Co.
Manistique, Mich., radio ⁴⁴	FC, FX	WMX	174 (1,725), 410 (730), 425 (705)	PG, P	(45)	Ann Arbor R. R. Co.
Manitowoc, Wis., radio ⁴⁵	FC, FX	WMW	do.	PG, P	N	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)		X	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)	PG	N	Do.
Marion, Mass. (Matapoissett)	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	(47)	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	(45)	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	(46)	Carl G. Fisher Co.
Midway Island, Hawaii	FX	KTF	4,518 (66.4), 8,944 (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	(43)	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	(49)	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.).

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RADIO DIVISION, DEPARTMENT OF COMMERCE

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.
Nakcen, 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	WII	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 (40.20), 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.
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.....	FA, FX	KMR	2,508 (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 (625), 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 (44.41), 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), 8,690 (34.52), 11,050 (27.15), 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	(24)	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	(25)	Philippine Insular Government.
Panhandle City, Tex.....	FX	KEH	6,603.5 (45.43).....	P	X	Marland Pipe Line Co.
Pasay, P. I.....	FX	KAM	300 (1,000), 400 (750), 500 (600), 5,615 (53.395), 6,452 (46.5), 11,230 (26.69).....	PR	(25)	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	(25)	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	KGKO	6,350 (47.24).....	P	(25)	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).....	P	X	Alaska Packers Assn.
Pirate Cove, Alaska.....	FX	KOX	182 (1,650), 414 (725), 500 (600).....	PR	(33 34)	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 Warde, Alaska.....	FX	KLH	180 (1,667), 429 (700), 480 (625), 2,852 (105.2).....	P	X	Whitworth Fisheries.
Ponca City, Okla.....	FX	KFE	6,603.5 (45.43).....	P	X	Marland Pipe Line Co.
Do.....	FX	KSF	1,600 (187.5), 1,652 (181.6), 1,664 (180.20), 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 Hausen.
Port Althorp, Alaska.....	FC, FX	KLW	180 (1,667), 445 (675), 500 (600).....	P	X	Alaska Pacific Salmon Corp.
Port Armstrong, Alaska.....	FC, FX	KHH	180 (1,667), 462 (650), 500 (600).....	P	X	Buchan & Heinen Pkg. Co.
Port Arthur, Tex., radio.....	FC	WPA	131 (2,200), 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 (13.740), 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	KGL	445 (675), 500 (600).....	PG	X	The Warehouse Co.
Portland, Oreg. (See Hillsboro).....		KEK				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 (1,670), 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 Princessa, 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	(23a)	Alaska Consolidated Canneries.
Quadra, Alaska.....	FC, FX	KHD	do.....	P	(23a)	Do.
Do.....	FX	KOR	176 (1,704), 180 (1,667), 429 (700), 500 (600).....	P	X	Northwestern Fisheries Co.
Quincy, Mass. ³⁵	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).....	PG, PR	X	Joseph T. Bauer.
Raspberry Island, Alaska.....	FX	KMQ	414 (725), 500 (600).....	P	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), 5,990 (50.08).....	P	X	Boeing Air Transport (Inc.).
Reno, Nev.....	FA, FX	KJE	do.....	P	X	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 (89.7), 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	N	R. C. A. Communications (Inc.).
Do-----	FX	WBU	21,260 (14.111)	PR	N	Do.
Do-----	FX	WDS	18,900 (15.873)	PR	N	Do.
Do-----	FX	WEA	10,610 (28.275)	PR	N	Do.
Do-----	FX	WEB	6,935 (43.250)	PR	N	Do.
Do-----	FX	WEC	8,930 (33.594)	PR	N	Do.
Do-----	FX	WED	10,630 (28.222)	PR	N	Do.
Do-----	FX	WEE	6,920 (43.353)	PR	N	Do.
Do-----	FX	WEF	9,490 (31.612)	PR	N	Do.
Do-----	FX	WEG	7,415 (40.450)	PR	N	Do.
Do-----	FX	WEJ	6,740 (44.51)	PR	N	Do.
Do-----	FX	WEL	8,950 (33.52)	PR	N	Do.
Do-----	FX	WEM	7,400 (40.541)	PR	N	Do.
Do-----	FX	WEN	7,407.5 (40.500)	PR	N	Do.
Do-----	FX	WEO	6,957.5 (43.119)	PR	N	Do.
Do-----	FX	WER	6,710 (44.709)	PR	N	Do.
Do-----	FX	WES	9,450 (31.746)	PR	N	Do.
Do-----	FX	WET	9,470 (31.679)	PR	N	Do.
Do-----	FX	WEV	6,942.5 (43.212)	PR	N	Do.
Do-----	FX	WEX	13,450 (22.305)	PR	N	Do.
Do-----	FX	WEZ	6,927.5 (43.306)	PR	N	Do.
Do-----	FX	WFX	13,930 (15.806)	PR	N	Do.
Do-----	FX	WHR	13,420 (22.355)	PR	N	Do.
Do-----	FX	WIK	13,930 (21.536)	PR	N	Do.
Do-----	FX	WIR	4,054 (74)	PR	N	Do.
Do-----	FX	WIY	13,870 (21.629)	PR	N	Do.
Do-----	FX	WKC	13,465 (22.280)	PR	N	Do.
Do-----	FX	WKD	13,435 (22.330)	PR	N	Do.
Do-----	FX	WKJ	9,460 (31.712)	PR	N	Do.
Do-----	FX	WKL	8,940 (33.557)	PR	N	Do.
Do-----	FX	WKM	13,860 (15.907)	PR	N	Do.
Do-----	FX	WKO	15,970 (18.785)	PR	N	Do.
Do-----	FX	WKP	6,950 (43.165)	PR	N	Do.
Do-----	FX	WKQ	16,000 (18.75)	PR	N	Do.
Do-----	FX	WKU	14,830 (20.229)	PR	N	Do.
Do-----	FX	WKW	16,030 (18.715)	PR	N	Do.
Do-----	FX	WLL	17,900 (16.760)	PR	N	Do.
Do ⁵⁵ -----	FX	WNL	58.5 (5.125) to 61.53 (4.875)	PR	N	American Telephone & Telegraph Co.
Do-----	FX	WPE	13,480 (21.676)	PR	N	R. C. A. Communications (Inc.).
Do-----	FX	WQA	21,220 (14.138)	PR	N	Do.
Do-----	FX	WQB	17,940 (16.722)	PR	N	Do.
Do-----	FX	WQC	17,860 (16.797)	PR	N	Do.
Do-----	FX	WQD	18,960 (15.823)	PR	N	Do.
Do-----	FX	WQE	18,920 (18.856)	PR	N	Do.
Do-----	FX	WQF	17,920 (16.741)	PR	N	Do.
Do-----	FX	WQG	15,040 (19.947)	PR	N	Do.
Do-----	FX	WQH	18,880 (1.890)	PR	N	Do.
Do-----	FX	WQI	17,830 (16.779)	PR	N	Do.
Do-----	FX	WQJ	21,240 (14.124)	PR	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
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.
Do.	FX	WQM	170 (1.765)	PR	N	Do.
Do.	FX	WQN	5,263 (57), 5,505 (54.5), 5,825 (51.5)	PR	N	Do.
Do.	FX	WQO	6,725 (44.61)	PR	N	Do.
Do.	FX	WQP	13,900 (21.583)	PR	N	Do.
Do.	FX	WQQ	20,260 (14.808)	PR	N	Do.
Do.	FX	WQR	16,015 (18.732)	PR	N	Do.
Do.	FX	WQS	13,915 (21.559)	PR	N	Do.
Do.	FX	WQT	13,885 (21.606)	PR	N	Do.
Do.	FX	WQU	13,855 (21.653)	PR	N	Do.
Do.	FX	WQV	14,800 (20.27)	PR	N	Do.
Do.	FX	WQW	21,300 (14.085)	PR	N	Do.
Do.	FX	WQX	20,180 (14.866)	PR	N	Do.
Do.	FX	WQY	20,100 (14.925)	PR	N	Do.
Do.	FX	WSS	18,80 (15.957)	PR	N	Do.
Do.	FX	WTT	18,940 (15.830)	PR	N	Do.
Rogers, Mich., radio ⁸⁷	FC, FX	WLC	165 (1,820), 171 (1,755), 410 (730), 425 (705), 4,116 (72.9), 8,630 (34.76)	PG, PR, P	N	Michigan Limestone & Chemical Co.
Rose Inlet, Alaska	FX	KJC	180 (1,667), 190.11 (1,578), 500 (600)	P	(^{23a})	Alaska Pacific Salmon Corp.
Ruby, (permanently moored vessel in Kogging 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	(²⁸)	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.).
Saltehuick, Alaska	FX	KWQ	343 (875), 500 (600)	P	X	Alaska Palladium Co.
Salt Lake City, Utah	FX	KQTH	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	KQSS	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	KQJA	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	3,402 (85.910), 6,230 (48.15)	P	X	Maddux Air Lines (Inc.).
Do.	FX	KQSX	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				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).-----	P	X	State department of agriculture (Calif.).
San Francisco, Calif., radio. (See Mussell Rock.)-----						Robert Dollar Co.
San Francisco, Calif.-----	FC	KUP	5,585 (53.71), 6,530 (45.94), 8,230 (36.45), 11,170 (26.86), 16,460 (18.226).-----	P	N	Examiner Printing Co.
Do-----	FC, FX	KUO	435 (690), 500 (600)-----	P	N	Do.
San Francisco, P. I., radio (Camotes, Cebu).-----	FC	KPY	500 (600)-----	PG	(¹²)	Philippine Insular Government.
San Jose, P. I., radio (Mindoro Island).-----	FC	KIY	214 (1,400), 500 (600)-----	PG	(⁹)	Do.
San Jose, Calif.-----	FX	KRH	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.).
San Juan, P. R.-----	FX	WGT	13,730 (21.771)-----	PR	N	R. C. A. Communications (Inc.).
Do-----	FX	WGU	6,717.5 (44.659)-----	PR	N	Do.
Do-----	FX	WGX	6,890 (43.541)-----	PR	N	Do.
Do-----	FX	WGX	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)	Santa Maria Air Lines (Inc.).
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), 7,662.5 (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), 17,630 (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 (23.08), 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), 18,750 (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.
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	5,000 (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	(62)	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	WBZ	6,000 (50)	P	X	Westinghouse Electric & Mfg. Co.
Steamboat Bay, Alaska (Noyes Island).	FC, FX	KUU	500 (600), 3,304 (90.5)	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	KGSU	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.

Tonakee, Alaska.....	FX	KFD	179 (1,676), 428 (700).....	P	X	Superior Packing Co.
Do.....	FC, FX	KOU	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	(35)	Philippine Insular Government.
Torrance, Calif., radio (Los Angeles).....	FC	KSE	133 (2,250), 143 (2,100), 408 (735), 500 (600), 5,525 (54.3), 6,485 (46.20), 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	NN	Do.
Tuckerton, N. J., radio.....	FC	WSC	133 (2,250), 143 (2,100), 462 (650), 500 (600), 5,525 (54.3), 6,485 (46.20), 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, PR	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	3,160 (94.9), 3,166 (94.3), 3,172 (94.0), 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	KHV	180 (1,667), 414 (725), 500 (600).....	P	X	Northwestern Fisheries Co.
Uzinkii, 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 (188.41), 1,610 (186.3), 5,525 (54.298), 6,515 (46.04).....	PG, PR	(2)	Bureau of Insular Telegraph.
View Cove, Alaska.....	FX	KSJ	180 (1,665), 100 (1,575), 425 (705), 500 (600).....	P	(2)	Pacific Coast Cement Co.
Virac, P. I., radio (Albay).....	FC	KAV	316 (950), 400 (750), 500 (600).....	PG	(2)	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	(35)	Do.
Warm Springs Bay, Alaska.....	FX	KNH	180 (1,667), 445 (675), 500 (600).....	P	X	United States-Alaska Packing Co.
Warren, Alaska.....	FX	KIU	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 (94.0), 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	do.....	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), 21,020 (13.876), 22,100 (13.575).....	PG	N	M. R. T. Co.

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		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	(21 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 (1,060), 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	KHP	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	KHS	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	KTV	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.

No. 5.....	FX	WBH	do.	P	X	Do.
No. 6.....	FX	WBK	do.	P	X	Do.
No. 7.....	FX	WBN	do.	P	X	Do.
No. 8.....	FX	WBS	do.	P	X	Do.
No. 9.....	FX	WBX	do.	P	X	Do.
No. 10.....	FX	WCA	do.	P	X	Do.
No. 11.....	FX	WCB	do.	P	X	Do.
No. 12.....	FX	KJG	do.	P	X	Do.
No. 13.....	FX	WCD	do.	P	X	Do.
No. 14.....	FX	WCH	do.	P	X	Do.
Ninth radio district:						
No. 1.....	FX	WGC	do.	P	N	F. S. Chapman.
Do.....	FX	KMZ	do.	P	X	Humble Oil and Refining Co.
Do.....	FX	KJZ	do.	P	X	Marland Production Co.
Do.....	FX	KJO	do.	P	X	Geophysical Exploration Co.
Do.....	FX	KND	do.	P	X	Texas Co.
No. 2.....	FX	KMY	do.	P	X	Humble Oil and Refining Co.
Do.....	FX	KJN	do.	P	X	Geophysical Exploration Co.
Do.....	FX	KNC	do.	P	X	Texas Co.
No. 3.....	FX	KMX	do.	P	X	Humble Oil and Refining Co.
Do.....	FX	KJT	do.	P	X	Geophysical Exploration Co.
Do.....	FX	KNE	do.	P	X	Texas Co.
No. 4.....	FX	KMS	do.	P	X	Humble Oil and Refining Co.
Do.....	FX	KJW	do.	P	X	Geophysical Exploration Co.
Do.....	FX	KNF	do.	P	X	Texas Co.
No. 5.....	FX	KMI	do.	P	X	Humble Oil and Refining Co.
Do.....	FX	KJY	do.	P	X	Geophysical Exploration Co.
Do.....	FX	KNB	do.	P	X	Texas Co.
No. 6.....	FX	KMD	do.	P	X	Humble Oil and Refining Co.
No. 7.....	FX	KLY	do.	P	X	Do.
No. 8.....	FX	KLI	do.	P	X	Do.
No. 9.....	FX	KLG	do.	P	X	Do.
No. 10.....	FX	KLT	do.	P	X	Do.
No. 11.....	FX	KLE	do.	P	X	Do.
No. 12.....	FX	KLA	do.	P	X	Do.
No. 13.....	FX	KFF	do.	P	X	Do.
No. 14.....	FX	KFG	do.	P	X	Do.
No. 15.....	FX	KFY	do.	P	X	Do.
No. 16.....	FX	KGZ	do.	P	X	Do.
No. 17.....	FX	KJA	do.	P	X	Do.
No. 18.....	FX	KJD	do.	P	X	Do.
Seventh radio district.....	FX	KDL	do.	P	N	F. S. Chapman.
Sixth radio district.....	FX	KDE	do.	P	(5)	Do.
Texas, Louisiana, and New Mexico.....	FX	KOZ	do.	P	(5)	Interstate Geophysical Exploration Co.
Do.....	FX	KPF	do.	P	X	Do.
Do.....	FX	KPL	do.	P	X	Do.
Do.....	FX	KPT	do.	P	X	Do.
Do.....	FX	KPU	do.	P	X	Do.
Do.....	FX	KRR	do.	P	X	Do.
Do.....	FX	KRS	do.	P	X	Do.
Do.....	FX	KRT	do.	P	X	Do.
Do.....	FX	KRV	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:						Geophysical Research Corporation.
No. 1.....	FX	WFG	do.....	P	(67)	Do.
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	X	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	Do.
Do.	FX	WFY	do.	P	(⁶⁷)	Marland Production Co.
Do.	FX	WFZ	do.	P	(⁶⁷)	Geophysical Research Corp.
Do.	FX	WGB	do.	P	(⁶⁷)	Do.

¹ 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.

² 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.

³ 8 a. m. to 5 p. m. daily except Sunday.

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

⁵ 8 a. m. to 5 p. m.

⁶ 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.

⁷ 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.

⁸ 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.

⁹ 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.

¹⁰ 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.

¹¹ 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.

¹² 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.

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

¹⁴ 6 a. m. to 12 p. m.

¹⁵ 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.

¹⁶ 9 to 10 a. m.; 7 to 8 p. m.

¹⁷ 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.

¹⁸ 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.

¹⁹ 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.

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

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

²² 9 a. m. to 5 p. m.

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

²⁴ 7 a. m. to 12 p. m.

²⁵ 7 a. m. to 11 p. m. daily.

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

²⁷ 8 a. m. to 8 p. m.

²⁸ 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.

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

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

³⁰ 7 a. m. to 7 p. m.

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

³² 5 a. m. to 8 p. m. daily.

³³ 7 a. m. to 10 p. m. daily.

³⁴ 8 a. m. to 5 p. m. daily, except Sunday.

³⁵ 8 to 12 a. m. and 1 to 5 p. m. daily.

³⁶ 7.30 a. m. to 5.30 p. m.

³⁷ 7.30 a. m. to 11.30 p. m.

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

³⁹ 6.30 to 9.30 p. m. daily.

⁴⁰ 1 to 5 p. m.

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

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

⁴³ 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.

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

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

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

⁴⁷ 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.

⁴⁸ 8 to 11.30 a. m. and 2 to 5 p. m.

⁴⁹ 10 to 12 a. m.; 1 to 5 p. m.

⁵⁰ 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.

⁵¹ 7 a. m. to 8 p. m. daily; 7 a. m. to 7 p. m. Sundays and holidays.

⁵² 6 a. m. to 12 p. m. daily.

⁵³ 9 to 11 a. m.; 6 to 12 p. m.

⁵⁴ Communicates only with vessels on trial trips.

⁵⁵ The telephone band used by this station extends from 4,875 to 5,125 meters.

⁵⁶ Location (approximately), 83° 50' 00" W.; 45° 25' 00" N.

⁵⁷ 6.30 a. m. to 12 p. m.

⁵⁸ 8 a. m. to 4 p. m.

⁵⁹ 8 to 9 a. m., 6.30 to 7.30 p. m. daily.

⁶⁰ 9 to 11 a. m., 2 to 3 and 6 to 8 p. m.

⁶¹ Location (approximately), 87° 41' 30" W.; 43° 45' 00" N.

⁶² 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.

⁶³ 6 a. m. to 6 p. m.

⁶⁴ 8 to 12 a. m., 1 to 6 and 7 to 8 p. m.

⁶⁵ 8 a. m. to 12 p. m.

⁶⁶ 9 a. m. to 7 p. m. daily except Sunday.

⁶⁷ 8 a. m. to 6 p. m. daily except Sunday.

COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS

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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.....	KEBD	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.....	KDIT	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.
Afel.....	KISQ	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	R. M. C. A.
Afoundria.....	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.....	
Agwimars.....	KDMC	do.....	PG	X	do.....	Do.
Agwipond.....	KFKP	do.....	PG	X	do.....	Do.

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Agwistar.....	WEGR	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.....	KDOB	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	375 (800), 425 (705), 500 (600)	PG	X	Deep Sea Fisheries.	R. M. C. A.
Do.....	WSBL	500 (600)			James A. Ross.	
Albay.....	KZAK	375 (800), 400 (750), 425 (705), 469 (640), 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), 425 (705), 500 (600)	PG	X	Atlantic Refining Co.	Do.
Alden A. Mills.....	KGBQ	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	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.
Aloha.....	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.....	KIKQ	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. 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

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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.....△	WFDL	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.
Amoleco.....	WCCD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	Steamship Amoleco Corp.....	Do.
Anaconda.....	KOPD	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.....△	KENM	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	N	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.

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Aquilo.....	KOCJ	do	PG	X	H. F. Alexander.....	Owner.
Ara.....	KFBO	125 (2,400), 131 (2,260), 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.....	KGAA	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.....	WLQZ	375 (800), 425 (705), 500 (600).	PG	X	U. S. S. B.....	Do.
Arctic.....	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), 425 (705), 454 (660), 500 (600).	PG	X	American Seantic Line (Inc.).....	Do.
Ario.....	KULM	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.....	KUCV	375 (800), 425 (705), 500 (600).	PG	X	Williams S. S. Corp.....	Do.
Arizpa.....	KULN	do	PG	X	U. S. S. B.....	Do.
Arlyn.....	KEKQ	do	PG	X	A. H. Bull & Co.....	Do.
Arminda.....	KFZD	425 (705), 500 (600).	PG	X	William E. Hedger.....	I. R. T. Co.
Artemis.....	WEDL	375 (800), 425 (705), 500 (600).	PG	N	U. S. S. B.....	R. M. C. A.
Artigas.....	KURQ	do	PG	N	do.....	Do.
Aryan.....	KOLB	375 (800), 410 (750), 425 (705), 454 (660), 500 (600).	PG	N	Texas Co.....	Do.
Asher J. Hudson.....	KDWG	425 (705), 500 (600).	PG	N	Sabine Towing Co.....	Do.
Ashtabula.....	WBDD	375 (800), 394 (760), 410 (730).	PG	X	Pennsylvania & Ontario Nav. Co.....	R. C. A.
Astoria.....	KGEF	375 (800), 425 (705), 500 (600).	PG	X	Hammond Lumber Co.....	M. R. T. Co.
Do.....	WJDV	do	PG	N	Quincy S. S. Co.....	R. M. C. A.
Astral.....	WSCG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	N	Standard Transpn. Corp.....	Do.
Atenas.....	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), 468 (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), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).	PG	X	Gerard B. Lambert.....	Do.
Atlantic Refining Co.....	KGZZ	do	PG	N	Atlantic Refining Co.....	Do.
Atlantic Sun.....	KUMS	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 469 (640), 500 (600).	PG	N	Sun Oil Co.....	Do.
Atlas.....	WSCM	375 (800), 400 (750), 425 (705), 469 (640), 500 (600).	PG	N	Standard Transportation Co.....	Do.
Aurora.....	KERN	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).	PG	N	do.....	Do.
Australia.....	WQBV	137 (2,190), 143 (2,098), 151 (1,987), 160 (1,875), 375 (800), 426 (705), 500 (600).	PG	N	Texas S. S. Co.....	M. R. T. Co.
Avalon.....	WQCV	2,740 (109.5).	P	X	Wilmington Transportation Co.....	Owner.
Axel J. Byles.....	WPBJ	125 (2,400), 137 (2,190), 141 (2,130), 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	do	PG	X	Albert C. Burrage.....	Do.
Bafsho.....	KENX	375 (800), 425 (705), 500 (600).	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.

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—
Baldhill.....	KOBV	375 (800), 426 (705), 500 (600)	PG	X	Baldhill S. S. Co.	Owner.
Ballantrae.....	WJDS	2,740 (109.5), 3,420 (87.7)	P	X	Trenton Mercer Area Council, Boy Scouts of America.	
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.)	R. M. C. A.
Balsam.....	KIJC	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	U. S. S. B.	
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.....	KJOJ	do.	PG	X	Sudden and Christenson	M. R. T. Co.
Barlow.....	WLAE	143 (2,100), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	PG	X	Ford Motor Co.	R. C. A.
Barney, Jr.....	WOBY	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Bellingham Tug & Barge Co.	Owner.
Barralton.....	KIDT	do.	PG	X	Ford Motor Co.	R. C. A.
Barranca.....	KIFR	375 (800), 425 (705), 500 (600)	PG	X	New Orleans Coal & Bisso Towboat Co.	Owner.
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.	Do.
Barrenfork.....	KIJD	426 (705), 500 (600)	PG	X	S. A. Guilds.	
Barron F.....	WIDS	2,320 (129.3)	PG	X	Nakat Packing Co.	R. M. C. A.
Barryton.....	KIJF	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.)	Owner.
Bascoibel.....	KOFS	do.	PG	X	Tennessee Coal, Iron & Railroad Co.	Do.
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.....	KDQK	do.	PG	X	U. S. S. B.	Do.
Bayport.....	KUJC	do.	PG	X	do.	
Bay State Fishing Co. (general call for all vessels).	KFYF	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.
Beatrice.....	KFSO	do.	PG	X	A. H. Bull S. S. Co.	Do.
Bellast.....	WECA	do.	PG	X	Eastern Steamship Lines (Inc.)	Do.
Bellbuckle.....	KITK	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Bellepline.....	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.

Benjamin Brewster	WOCK	125 (2,400), 131 (2,260), 137 (2,190), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,935), 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	KFTC	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	KFIE	do	PG	N	Merchants & Miners Transp. Co.	R. M. C. A.
Do	KUVG	do	PG	X	Berkshire S. S. Co.	Do.
Berwindglen	WKDC	2,320 (129.3)	P	X	Wilmore S. S. Co.	Owner.
Beryle E.	WIDK	375 (800), 425 (705), 500 (600)	PG	X	Alaska Pacific Salmon Corp.	R. M. C. A.
Berury	KINR	375 (800), 400 (705), 425 (705), 468 (640)	PG	X	U. S. S. B.	Do.
Bessemer	KIGT	375 (800), 425 (705), 500 (600)	PG	X	Atlantic Refining Co.	Do.
Bessemer City	KDOF	do	PG	X	U. S. Steel Products Co.	Do.
Beta	WEDB	do	PG	X	Beta S. S. Corp.	Do.
Bethlehem Shipbuilding Corporation. ¹	KUPP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Bethlehem Shipbuilding Corp.	Owner.
Bethore	KDWW	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Ore S. S. Corp.	R. M. C. A.
Butterton	KUBG	500 (600), 2,740 (109.5), 3,420 (87.7), 5,525 (54.3), 5,555 (54)	PG	X	Associated Oil Co.	M. R. T. Co.
Betty R.	KDTF	410 (730), 425 (705)	P	X	Edward C. Crossett	Owner.
B. H. Taylor	KFLK	375 (800), 425 (705), 500 (600)	PG	X	Bradley Transp. Co.	Do.
Bibeco	KDHJ	131 (2,250), 137 (2,100), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 500 (600)	PG	X	Mississippi Shipping Co.	R. M. C. A.
Biboco	KUBM	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	U. S. S. B.	Do.
Bidwell	KESQ	500 (600), 1,500 (200), 1,714 (175), 2,000 (150), 2,856 (105)	P	X	Sun Oil Co.	Owner.
Big Bill	WBDX	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	South Seas Research Co.	R. M. C. A.
Billow	KFXU	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Bay State Fishing Co.	Do.
Bird City	KOBP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	American Seantic Line (Inc.)	Do.
Birkenhead	KDVL	273 (1,100)	P	X	Vacuum Oil Co.	Owner.
Birmingham	KFME	375 (800), 425 (705), 500 (600)	PG	X	Inland Waterways Corp.	R. M. C. A.
Birmingham City	KUTT	do	PG	X	U. S. Steel Products Co.	Do.
Black Point	WFDH	2,740 (109.5)	P	X	Black Point S. S. Co.	Owner.
Bhaine	WIIDY	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	E. V. Rideout Co.	R. M. C. A.
Bogota	KORQ	345 (870), 375 (800), 425 (705), 500 (600)	PG	X	Colombian S. S. Co.	Do.
Bohemia	KGBK	125 (2,400), 131 (2,260), 137 (2,160), 141 (2,130), 143 (2,100), 149 (2,015), 151 (1,935), 157 (1,910), 160 (1,875), 375 (800), 500 (600)	PG	X	Pathé Studios (Inc.)	Do.
Bohemian Club	KDTB	500 (600)	PG	X	Atlantic Refining Co.	Owner.
Bohol	KZCF	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Compania Maritima	R. M. C. A.
Bolivar	KIQP	375 (800), 425 (705), 500 (600)	PG	X	Colombian S. S. Co.	Do.
Bonnie Brook	KDGX	500 (600)	PG	X	U. S. S. B.	Owner.
Borongan	KZPD	143 (2,100), 151 (1,935), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Juan Sandoval Co. Juanco	R. M. C. A.
Boston	WECB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Eastern S. S. Lines (Inc.)	Do.
Boston College	WTBG	500 (600), 2,752 (109), 4,212 (69.56), 8,025 (34.78), 12,940 (23.18)	P	X	Trawler Boston College (Inc.)	Owner.
Bowdoin	WDEE	375 (800), 425 (705), 500 (600)	PG	X	MacMillan Arctic Assn.	R. M. C. A.
Braddock	KETG	375 (800), 410 (730), 425 (705)	PG	X	U. S. S. B.	Do.
Brandon	KFYI	375 (800), 425 (705), 500 (600)	PG	X	Rutland Lake Michigan Transit Co.	Do.
Brant	KUDB	do	PG	X	Portland Trawling Co.	Do.
Brave Coeur	KOGN	do	PG	X	U. S. S. B.	Do.
Brazos	WHCB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Mullory S. S. Co.	Do.
Breaker	KFXZ	do	PG	X	Bay State Fishing Co.	Do.
Breeze	WQBC	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do	Do.
Bridgetown	KUCZ	375 (800), 425 (705), 500 (600)	PG	X	Colombian S. S. Co.	Do.
Bristol	KEGC	do	PG	X	Coastwise Transp. Corp.	Do.

¹ Portable set placed on board vessels during trial trip.

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

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RADIO DIVISION, DEPARTMENT OF COMMERCE

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled 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.....	WFOA	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.....	KIJT	143 (2,100), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	PG	X	Ford Motor Co.....	R. C. A.
Bylayl.....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 & Transport 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.
Calawail.....	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	WMCM	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	WECC	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	WECD	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.
Cansumset	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	N	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	WOGB	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	KFPI	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	N	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		PG	X	J. A. Talbot	Do.
Carl D. Bradley	WOBK	410 (730), 425 (705)	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	WSBS	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, K	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.
Carrabelle	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.
Cassimir	KDDZ	375 (800), 425 (705), 500 (600)	PG	X	Cuba Distilling Co.	Do.
Castana	KDFF	do	PG	X	Steamer Castana Corp.	Do.
Catahoula	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 set- tled by—
Catherine	KTOI	375 (800), 425 (705)	PG	N	A. H. Bull	R. M. C. A.
Catherine D	KMAI	137 (2190), 143 (2100), 151 (1985), 160 (1875), 375 (800), 425 (705), 500 (600)	PG	X	Pacific American Fisheries	Owner.
Catherine G. Sudden	KFKR	375 (800), 425 (705), 500 (600)	PG	X	Sudden & Christenson	R. M. C. A.
Cathlamet	KOLP	do.	PG	X	American West African Line (Inc.)	M. R. T. Co.
Cathwood	KURC	375 (800), 425 (705), 500 (600)	PG	X	Union Oil Co. of California	R. M. C. A.
Cauto	WECU	375 (800), 410 (730), 425 (705), 454 (660)	PG	X	New York & Cuba Mail S. S. Co.	Do.
Cayo Mambi	KUZZ	do.	PG	X	Cayo Mambi S. S. Corp.	Do.
C. B. Watson	WFDI	375 (800), 425 (705), 500 (600)	P	X	Sabine Towing Co.	Owner.
C. C. Webber	WOBM	273 (1100), 500 (600)	PG	X	Inland Waterways Corp.	M. R. T. Co.
C. D. Johnson III	KDIT	375 (800), 425 (705), 500 (600)	PG	X	Pacific Spruce Corp.	Owner.
Cebu	KZAX	375 (800), 500 (600)	PG	X	Compania Maritima	R. M. C. A.
Cecil County	KERZ	375 (800), 425 (705), 500 (600)	PG	X	Oil Transport Co.	Do.
Cedarhurst	KDIQ	do.	PG	X	Steamer Cedarhurst Corp.	Owner.
Celilo	WCDU	375 (800), 425 (705), 500 (600)	PG	X	Chas. R. McCormick Lumber Co.	R. M. C. A.
Centaurus	KOPZ	375 (800), 400 (750), 425 (705), 468 (640)	PG	X	Planet S. S. Corp.	Owner.
Centurion	KDVZ	425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Cerro Azul	KDQY	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.	Do.
Cerro Ebano	KDQS	do.	PG	X	do.	Owner.
Cethana	KORG	426 (705), 500 (600)	PG	X	Pacific Motorship Co.	Do.
Chahunta	WTBK	375 (800), 425 (705), 500 (600)	PG	X	Lincoln County Tug & Barge Co.	R. M. C. A.
Challenger	WNII	do.	PG	X	Sun Shipbuilding & Drydock Co.	Do.
Charcas	KITZ	375 (800), 425 (705), 500 (600)	PG	X	Grace S. S. Co.	M. R. T. Co.
Charles Christenson	KINP	do.	PG	X	Christenson S. S. Co.	Owner.
Charles C. West	KFKK	375 (800), 410 (730), 425 (705)	PG	X	Rockport S. S. Co.	R. M. C. A.
Charles E. Harwood	WPCB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.	Do.
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	KDHH	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.	Do.
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.....	△	WTCT	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.
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).	PG	X	Standard Shipping Co.....	Do.
Chester Valley.....		KOST	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	Do.
Chester W. Chapin.....		WRQC	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	New England S. S. Co.....	Do.
Chickamauga.....		KFXA	425 (705), 500 (600)	PG	X	Pacific Tow Boat Co.....	Do.
Chickasaw.....		KOJR	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	Do.
Chickasaw City.....		KUNZ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	U. S. Steel Products Co.....	Do.
Chilbar.....		KENS	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Chile S. S. Co.....	Do.
Chilcop.....	△	KGGE	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do.....	Do.
Chilkat.....		KFFN	375 (800), 425 (705), 500 (600)	PG	X	Alaska Packers Assn.....	Owner.
Chiloil.....		KUPV	do	PG	X	Chile S. S. Co.....	R. M. C. A.
Chilore.....		KFIW	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Ore S. S. Corp.....	Do.
Chilsco.....	△	KDHU	375 (800), 425 (705), 500 (600)	PG	X	Chile S. S. Co.....	Do.
China Arrow.....	△	KDGV	375 (800), 400 (750), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Standard Transpn. Co.....	Do.
Chincha.....		WCCE	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	American South African Line.....	Do.
Chippewa.....		KDJS	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.....	Do.
Chirikof.....	△	WMCC	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Alaska Packers Assn.....	Owner.
Christopher Columbus.....		WPCW	375 (800), 410 (730), 425 (705)	PG	X	Goodrich Transit Co.....	R. C. A.
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).	PG	X	Standard Shipping Co.....	R. M. C. A.
Churruca.....		KZPC	396 (755), 500 (600)	PG		Ty Camco Sobrino.....	Owner.
Circinus.....		KOPK	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Planet S. S. Corp.....	R. M. C. A.
Cities Service Empire.....		KMAU	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Cities Service Transpn. Co.....	M. R. T. Co.
Cities Service Fuel.....		WHCP	375 (800), 425 (705), 500 (600)	PG	X	do.....	R. M. C. A.
Cities Service Kool motor.....		WGAO	125 (2,400), 143 (2,100), 151 (1,985), 159 (1,885), 375 (800), 425 (705), 500 (600).	PG	X	Cities Service Refining Transport Co.....	M. R. T. Co.
Cities Service Petrol.....	△	KDMB	375 (800), 425 (705), 500 (600)	PG	X	Cities Service Transpn. Co.....	R. M. C. A.
Cities Service Toledo.....		WOCS	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.....	M. R. T. Co.
City of Alton.....		KONZ	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	R. M. C. A.
City of Atlanta.....		WFCT	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Ocean S. S. Co. of Savannah.....	Do.
City of Bangor.....		WECM	375 (800), 425 (705), 500 (600)	PG	X	Eastern S. S. Line.....	Do.
City of Benton Harbor.....		WPCX	375 (800), 410 (730), 425 (705)	PG	X	Goodrich Transit Co.....	R. C. A.
City of Birmingham.....		WFCB	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	N	Ocean S. S. of Savannah.....	R. M. C. A.
City of Buffalo.....		WTCR	375 (800), 410 (730), 425 (705)	PG	X	Cleveland & Buffalo Transit Co.....	Do.
City of Chattanooga.....		WFCL	137 (2,190), 141 (2,130), 142 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 469 (640), 500 (600).	PG	N	Ocean S. S. of Savannah.....	Do.
City of Cleveland III.....	△	WNCM	143 (2,100), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	PG	N	Detroit & Cleveland Nav. Co.....	R. C. A.
City of Columbus.....		WECM	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Ocean S. S. Co. of Savannah.....	R. M. C. A.
City of Dalhart.....		KDNF	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).	PG	X	U. S. S. B.....	Do.
City of Dallas.....		KOPV	375 (800), 425 (705), 500 (600)	PG	X	Southern S. S. Co.....	Owner.
City of Detroit III.....	△	WNCN	143 (2,100), 375 (800), 394 (760), 410 (730), 157 (1,910), 425 (705)	PG	N	Detroit & Cleveland Nav. Co.....	R. M. C. A.
City of Elwood.....		KDMV		PG	X	U. S. S. B.....	Do.
City of Erie.....		WTCS	375 (800), 410 (730), 425 (705)	PG	X	Cleveland & Buffalo Transit Co.....	Do.
City of Fairbury.....	△	KISR	375 (800), 425 (705), 500 (600)	PG	X	American Scantic Line (Inc.).....	M. R. T. Co.
City of Flint.....		KUCV	do	PG	X	U. S. S. B.....	R. M. C. A.
City of Fort Worth.....		KONAM	do	PG	X	Southern S. S. Co.....	Owner.

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—
City of Grand Rapids	KFIS	375 (800), 410 (730), 425 (705)	PG	X	Goodrich Transit Co.	R. C. A.
City of Holland	KFES	do.	PG	X	do.	Do.
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), 454 (660), 468 (640), 500 (600)	PG	N	Los Angeles S. S. Co.	R. M. C. A.
City of Houston	KONS	375 (800), 425 (705), 500 (600)	PG	X	Southern S. S. Co.	Owner.
City of Lorient	KUIR	do.	PG	X	U. S. S. B.	R. M. C. A.
City of Los Angeles	KOZC	125 (2,400), 143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600)	PG	X	Los Angeles S. S. Co.	Do.
City of Lowell	WRCB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	New England S. S. Co.	Do.
City of Montgomery	WFCN	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Ocean S. S. Co. of Savannah	Do.
City of New York	WFBT	375 (800), 400 (750), 425 (705), 500 (600), 3,290 (91.2), 4,405 (68.1), 5,650 (53.1), 6,850 (45.50), 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 (13.753)	PG	X, N	Commander R. E. Byrd	Owner.
City of Omaha	KOZB	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
City of Philadelphia	KONT	do.	PG	X	Southern S. S. Co.	Do.
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	X	U. S. S. B.	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	N	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.	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	X	Hartwood Lumber Co.	Owner.
Claudeus	KQBB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Planet S. S. Corp.	R. M. C. A.
Clavarrack	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.	Do.
Cleveland Cliffs S. S. Co. (general call for all vessels)	KDYY	do.			Cleveland Cliffs S. S. Co.	Do.
Clifford F. Moll	KDWA	375 (800), 410 (730), 425 (705)	PG	X	American S. S. Co.	Owner.
Cliffwood	KORX	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Coahoma County	KOMP	do.	PG	X	do.	Do.
Coamo	WKCW	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	Coamo S. S. Corp.	Do.
Coastwise	WK CZ	375 (800), 425 (705), 500 (600)	PG	X	Coastwise Transportation Corp.	Do.
Coaxet	WPUU	do.	PG	X	U. S. S. B.	Do.

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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 (1,835), 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.
Colrairie.....	WGDT	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.
Columbine.....	WQBF	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Union Shipbuilding Co.	R. M. C. A.
Comal.....	WHCD	375 (800), 425 (705), 500 (600)	PG	N	Mallory S. S. Co.	Do.
Comber.....	KFKK	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.....	WLCP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Commercial Courier S. S. Co.	Do.
Commercial Guide.....	WCDD	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.
Commodore.....	WOBJ	do	PG	X	Lewers & Cooke	Do.
Commonwealth.....	WRCC	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.
Concor.....	KDCF	375 (800), 425 (705), 500 (600)	PG	X	Grace S. S. Co.	Do.
Conehatta.....	KUQQ	do	PG	X	U. S. S. B.	
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.....	WFEI	do	PG		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.
Coppenname.....	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.

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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.
Cornorant	WGDV	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	KOPL	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.
Courageous	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), 469 (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	N	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	Calmar 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.

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Dakotan.....	△	WACD	do	PG	X	American Hawaiian S. S. Co.	Owner.
Daniel Kern.....		KDXG	do	PG	X	Bellingham Tug & Barge Co.	Do.
Dannedaike.....		KOPD	do	PG	X	Dannedaike 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.
Defecto.....		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.
Delfina.....		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.....		KDBA	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Derblay.....		KDDT	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.....		KFHG	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.....	△	KEGM	375 (800), 425 (705), 500 (600)	PG	X	Texas Co.	Do.
District 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), 468 (640), 500 (600)	PG		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.

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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	Pinkbine-Guild Transpn. Co.	R. M. C. A.
Dodeca	WLOR	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	WGCG	143 (2,100), 151 (1,985), 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	KJLJ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Luckenbach S. S. Co.	R. M. C. A.
Dorothy Wintemote	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)			Texas Co.	Do.
Duquesne	KECS	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Durango	KDBT	125 (2,400), 137 (2,130), 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.	
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).....	PG	N	do.....	Do.
Eastern Guide.....Δ	KUCN	375 (800), 425 (705), 500 (600).....	PG	X	Pacific Coast S. S. Co.....	M. R. T. Co.
Eastern Knight.....	KUFB	do.....	PG	X	Pacific Atlantic S. S. Co.....	Owner.
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).....	PG	X	U. S. S. B.....	
Eastern States.....Δ	WTCB	375 (800), 157 (1,910), 394 (750), 410 (730), 425 (705), 143 (2,100).....	PG	N	Detroit & Cleveland Nav. Co.....	R. C. A.
Eastern Temple.....	KDEZ	375 (800), 425 (705), 500 (600).....	PG	X	High Seas Transportation Co.....	R. M. C. A.
East Indian.....Δ	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).....	PG	X	Ford Motor Co.....	R. C. A.
East Side.....	KIMQ	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	
Eclipse.....	KEGF	do.....	PG	X	do.....	R. M. C. A.
Ecuador.....Δ	WNCW	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,935), 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	Panama Mail S. S. Co.....	Do.
Edenton.....	KECB	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	Do.
Edgar F. Coney.....	KDED	425 (705), 500 (600).....	PG	X	Philip Shore.....	Owner.
Edgar F. Luckenbach.....Δ	WLCA	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	X	Luckenbach S. S. Co.....	R. M. C. A.
Edgefield.....	KEBF	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	Do.
Edgehill.....	KETN	do.....	PG	X	do.....	Do.
Edgemont.....	KETP	do.....	PG	X	do.....	
Edgemore.....	KEVF	do.....	PG	X	do.....	
Edith.....	WKOD	do.....	PG	X	A. H. Bull S. S. Co.....	Do.
Editor.....	KOBG	do.....	PG	X	U. S. S. B.....	
Edna.....	KIPT	do.....	PG	X	Sudden & Christenson.....	Owner.
Edna Christenson.....	WEDV	do.....	PG	X	do.....	Do.
Edward L. Doheny.....Δ	WPCP	375 (800), 400 (750), 425 (705), 469 (640), 500 (600).....	PG	X	Pan American Petroleum & Transpn. Co.....	R. M. C. A.
Edward L. Shea.....	KFSE	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	Tide Water Associated Transport Corp.....	Do.
Edward Luckenbach.....Δ	WLCB	375 (800), 425 (705), 500 (600).....	PG	X	Luckenbach S. S. Co.....	Do.
Edward Pierce.....	KMOU	do.....	PG	X	Mystic S. S. Co.....	Do.
Edwin Christenson.....	WCCG	do.....	PG	X	Christenson S. S. Co.....	M. R. T. Co.
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).....	PG	X	U. S. S. B.....	R. M. C. A.
Effingham.....	KOLT	375 (800), 425 (705), 500 (600).....	PG	X	do.....	Do.
Efina.....	KOMT	do.....	PG	X	do.....	
Eglantine.....	KOPT	do.....	PG	X	do.....	Do.
E. G. Mathiott.....Δ	KFUB	375 (800), 410 (730), 425 (705).....	PG	X	Valley Camp S. S. Co.....	R. C. A.
Egremont.....	KOQS	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	R. M. C. A.
E. J. Sadler.....Δ	KGAC	375 (800), 400 (750), 425 (705), 469 (640), 500 (600).....	PG	X	Standard Shipping Co.....	Do.
El Alba.....	WICD	375 (800), 425 (705), 500 (600).....	PG	X	Southern Pacific Co.....	Owner.
El Almirante.....	WICE	do.....	PG	X	do.....	Do.
El Capitan.....	WICF	do.....	PG	X	do.....	Do.
Do.....	KILP	do.....	PG	X	E. K. Wood Lumber Co.....	Do.
El Cedro.....	WVOE	do.....	PG	X	James Griffiths & Sons.....	R. M. C. A.
El Cid.....	WICG	do.....	PG	X	Southern Pacific Co.....	Owner.
El Coston.....	WICH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	do.....	Do.
Eldena.....	KEVG	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	R. M. C. A.
El Dia.....	WICI	do.....	PG	X	Southern Pacific Co.....	Owner.

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

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RADIO DIVISION, DEPARTMENT OF COMMERCE

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.	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 (45.02), 8,670 (34.60), 11,290 (26.57), 12,820 (23.40), 16,700 (17.964), 21,820 (13.749).	P	X	Commander Richard E. Byrd	
Eleanor Christenson	KOTL	375 (800), 425 (705), 500 (600)	PG	X	Christenson S. S. Co.	R. M. C. A.
Elena	WSBE	125 (2,400), 137 (2,150), 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	W. B. Bell	Do.
El Estero	WICJ	375 (800), 425 (705), 500 (600)	PG	X	Southern Pacific Co.	Owner.
Elieu	WJDH	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Interisland Steam Nav. Co.	R. M. C. A.
Elia	KFNE	375 (800), 425 (705), 500 (600)	PG	X	George Whittell, jr.	Owner.
Elisha Walker	KDQQ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transpn. Co.	R. M. C. A.
El Isleo	WICK	375 (800), 425 (705), 500 (600)	PG	X	Southern Pacific Co.	Owner.
Elizabeth	KORC	do.	PG	X	A. H. Bull S. S. Co.	R. M. C. A.
Elkhorn	KOCL	135 (2,222), 137 (2,190), 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.	Owner.
Elleanor	KUGX	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	A. H. Bull S. S. Co.	R. M. C. A.
Elmore	KFFG	425 (705), 500 (600)	PG	X	American Tug Boat Co.	Owner.
Elmsport	KILF	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
El Mundo	WICM	do.	PG	X	Southern Pacific Co.	Owner.
El Norte	WICN	do.	PG	X	do.	Do.
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	KFVT	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 (2,280), 133 (2,250), 135 (2,222), 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	U. S. S. B.	
Emidio	KD TJ	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.	Do.
Emilia	KREA	425 (705), 500 (600)	PG	X	A. H. Bull S. S. Co.	
Emma Alexander	WGCN	125 (2,400), 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.

Emma H. Coppage	KUJZ	375 (800), 425 (705), 500 (600)	PG	X	California Petroleum S. S. Corp.	R. M. C. A.
Emma R. S.	WGDR	4,148 (72.3), 8,250 (36.45)	P	X	Guy H. Silva	Owner.
Empire	KFIR	375 (800), 425 (705), 500 (600)	PG	X	Sabine Towing Co.	R. M. C. A.
Empire Arrow	△ KDUG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transpn. Co.	Do.
Enchantress	WPBN	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	P	X	Alymar Johnson	Do.
Endicott	KODN	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Ensley City	KUZS	do.	PG	X	U. S. Steel Products Co.	Do.
Enterprise	WMCB	do.	PG	N	Matson Nav. Co.	
Eocene	WSCO	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Standard Transpn. Co.	
E. P. Co. No. 4	WIDY	2,320 (129.3)	P	X	Farwest Fisheries (Inc.)	Owner.
Equator	KDWI	375 (800), 425 (705), 500 (600)	PG	X	Cary Davis Tug & Barge Co.	Do.
E. R. Kemp	KDQD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sinclair Nav. Co.	R. M. C. A.
Ernest H. Meyer	KJUI	375 (800), 425 (705), 500 (600)	PG	X	Broughton & Wiggins Nav. Co.	Do.
Ervina V	KGDF	2,727 (110)	P	X	William E. Antony	Owner.
Esparta	△ KDAO	375 (800), 400 (750), 410 (730)	PG	N, X	United Fruit S. S. Corp.	T. R. T. Co.
Esperanza	KZBK	316 (952), 500 (600)	PG	X	Visayan Stevedore-Transpn. Co.	Owner.
Essex	WMCS	375 (800), 425 (705), 500 (600)	PG	N, X	Merchants & Miners Transpn. Co.	R. M. C. A.
Estrada Palma	KDMG	do.	PG	N	Florida East Coast Car Ferry Co.	Do.
E. T. Bedford	△ KDSB	375 (800), 400 (750), 425 (705), 468 (640)	PG	X	Standard Shipping Co.	Do.
Ethan Allen	KUJ	125 (2,400), 131 (2,290), 137 (2,190), 1(2,130), 143 (2,100), 149 (2,015), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 500 (600).	PG	X	U. S. S. B.	Do.
		375 (800), 425 (705), 500 (600)	PG	X	Ethyl Gasoline Corp.	
Ethyl	KUNB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sinclair Nav. Co.	Do.
Eugene V. R. Thayer	KDMA	do.	PG	X	Planet S. S. Corp.	Do.
Eurana	WCCF	do.	PG	N	Nova Scotia S. S. Corp.	Do.
Evangeline	△ KGAZ	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	Deep Water Fish & Exploration Co.	
Do	WIDW	375 (800), 425 (705), 500 (600)	PG	X	M. & J. Tracy (Inc.)	Do.
Evansville	KIKT	do.	PG	X	A. H. Bull S. S. Co.	Do.
Evlyn	WECE	do.	PG	X	Tacoma Oriental S. S. Co.	
Everett	KINN	do.	PG	X	Mystic S. S. Co.	Do.
Do	WJCG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sinclair Nav. Co.	Do.
E. W. Sinclair	KDRN	do.	PG	X	Export S. S. Corp.	Do.
Examelia	KOVT	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N, X	do.	Do.
Examiner	KOJD	do.	PG	X	do.	Do.
Exanthia	KUVX	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Exarch	KDNE	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	do.	Do.
		375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do.	Do.
Exbrook	KUFZ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do.	Do.
Excellency	KISS	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Excello	KIPV	do.	PG	X	do.	Do.
Exchange	KIGR	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do.	Do.
Exchester	KUNV	do.	PG	N	do.	Do.
Executive	KDDM	do.	PG	X	do.	Do.
Exermont	KUDP	do.	PG	X	do.	Do.
Exford	KEFC	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Exhibitor	WCDE	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	do.	
Exilona	KOTN	do.	PG	X	do.	Do.
Exiria	KIQV	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Exminster	KIBQ	do.	PG	X	do.	Do.
Exmoor	KODB	do.	PG	X	do.	Do.
Exmouth	KUGS	do.	PG	X	do.	Do.
Explorer	KEFT	do.	PG	X	do.	Do.
Do	KEBZ	do.	PG	X	do.	Do.

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

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RADIO DIVISION, DEPARTMENT OF COMMERCE

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.
Extol	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. Dooty	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	N	Merchants & Miners Transpn. Co.	R. M. C. A.
Fairfield	WIIDM	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), 500 (600)	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	WMEO	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	KDWY	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	WQCU	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. Wickett	WROO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transpn. 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.
Floridian	KJH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Strachan's Southern S. S. Co.	R. M. C. A.
Fluor 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.	Do.
Forest King	KDBH	375 (800), 425 (705), 500 (600)	PG	X	Traders Transport Co.	Owner.
Fortuna	KDWU	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Richmond Talbot	R. M. C. A.
Do	KZDV	500 (600)	PG	X	Rio y Olabarrieta	Owner.
Foss No. 21	KGAX	375 (800), 425 (705), 500 (600)	PG	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 (18.094), 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 Billings	KDXM	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.	Do.
Frank G. Drum	KDQZ	375 (800), 426 (705), 500 (600)	PG	X	Associated Oil Co.	M. R. T. Co.
Frank H. Buck	WQCQ	125 (2,400), 143 (2,100), 151 (1,935), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Frank H. Goodyear	KFEG	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	Pocahontas S. S. Co.	Do.
Freeport Sulphur No. 2	WHCY	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	Do.
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.
Gargoyle	KDPE	375 (800), 400 (750), 425 (705)	PG	X	Vacuum Oil Co.	Do.
Garnet Hulings	KUZQ	375 (800), 425 (705), 500 (600)	PG	X	Gladstone Transpn. Co.	Do.
Gar, Sr.	WHDD	2590 (115.3)	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	WHC W	375 (800), 400 (700), 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 (660), 500 (600)	PG	X	Gladstone Transpn. Co.	M. R. T. Co.

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

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RADIO DIVISION, DEPARTMENT OF COMMERCE

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 & Transport 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	WTBH	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 & Transport 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	KFTR	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.
Glendoyla	KFAO	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Leonard C. Hammond	Do.
Glenpool	WOCP	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 & Miners 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.....	KENJ	125 (2,400), 143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705) 500 (600).	PG	X	do.....	Do.
Golden Harvest.....	KUAM	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.
Goliath.....	KFDI	500 (600), 425 (705), 375 (800).	PG	X	Wood Towing Corp.....	R. M. C. A.
Do.....	WTBP	375 (800), 425 (705), 500 (600).	PG	X	Cary Davis Tug & Barge Co.....	Owner.
Goodtime.....	WTCU	375 (800), 410 (730), 425 (705).	PG	X	Cleveland & Buffalo Transit Co.....	
Good Will.....	KFGI	375 (800), 425 (705), 500 (600), 394 (750), 410 (730).	PG	X	Keith Spalding.....	R. M. C., A.
Gorgona.....	KDNZ	375 (800), 425 (705), 500 (600).	P	N	Panama Canal.....	Owner.
Governor Cobb.....	WHCX	do.....	PG	N	Peninsular & Occidental S. S. Co.....	R. M. C. A.
Governor Dingley.....	WECE	do.....	PG	N	Eastern S. S. Lines (Inc.).....	Do.
Governor John Lind.....	WREU	do.....	PG	X	Baltimore Insular Line.....	Do.
Grand Island.....	KFNA	375 (800), 410 (730), 425 (705).	PG	X	Cleveland Cliffs S. S. Co.....	
Grays Harbor.....	KILJ	375 (800), 425 (705), 500 (600).	PG	X	Tacoma Oriental S. S. Co.....	Owner.
Greater Buffalo.....	WSBH	375 (800), 394 (760), 410 (730), 143 (2,100), 157 (1,910), 425 (705).	PG	N, Y	Detroit & Cleveland Nav. Co.....	R. C. A.
Greater Detroit.....	WSBI	375 (800), 394 (760), 410 (730).	PG	N, Y	do.....	Do.
Grecian.....	WMCU	375 (800), 410 (730), 425 (705), 500 (600).	PG	N, Y	Merchants & Miners Transportn. Co.....	R. M. C. A.
Greylock.....	KDTV	125 (2,400), 137 (2,190), 141 (2,130), 143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 454 (660), 500 (600).	PG	X	Greylock S. S. Corp.....	Do.
Guardian.....	WBDP	375 (800), 425 (705), 500 (600).	P	X	All America Cable Co.....	Owner.
Guatemala.....	WADT	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	N	Grace S. S. Co.....	R. M. C. A.
Guayaquil.....	KEEN	375 (800), 425 (705), 500 (600).	PG	X	Panama R. R.....	Do.
Guinevere.....	KDUP	375 (800), 400 (750), 500 (600).	P	X	Edgar Palmer.....	Owner.
Gulfbird.....	WRBF	125 (2,400), 137 (2,190), 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), 469 (640), 500 (600).	PG	X	Gulf Refining Co.....	R. M. C. A.
Gulfbreeze.....	KFDW	375 (800), 425 (705), 500 (600).	PG	X	do.....	Do.
Gulfoast.....	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), 463 (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.
Gulfmaid.....	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.

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.
Gulfpont.....	KUPF	375 (800), 425 (705), 500 (600)-----	PG	X	do.....	Do.
Gulfport.....	KFMD	273 (1,100)-----	P	X	Inland Waterways Corp.....	Owner.
Gulfpride.....Δ	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.....			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.....	KOVJ	do.....	PG	X	do.....	Do.
Gulfwax.....	KDUQ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)-----	PG	X	do.....	Do.
Gulfwing.....Δ	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 (800), 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.....	KUFC	375 (800), 425 (705), 500 (600)-----	PG	X	Ocean Dominion S. S. Corp.....	Do.
Halcyon.....	WHDZ	2740 (109.5)-----	P	X	E. V. Rideout Co.....	Owner.
Haleakala.....	KFEU	375 (800), 425 (705), 500 (600)-----	PG	X	Interisland Steam Nav. Co.....	Do.
Haligonian.....	KGAW	4,188 (71.66), 8, 670 (34.6)-----	P	X	Houstonn 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.....Δ	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), 400 (750), 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), 46S (640), 500 (600)-----	PG	X	Pan American Petroleum & Trans- port Co.	R. M. C. A.
Harry Coulby.....	△	WPBF	375 (800), 410 (730), 425 (705)-----	PG	X	Interlake S. S. Co.	R. C. A.
Harry Farnum.....	△	WHCU	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 46S (640), 500 (600)-----	PG	X	Sinclair Nav. Co.	R. M. C. A.
Harry Luckenbach.....	△	KIGS	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)-----	PG	X	Luckenbach S. S. Co.	Do.
Harry W. Croft.....	△	WEDD	375 (800), 410 (730), 425 (705)-----	PG	X	Stewart Furnace Co.	R. C. A.
Harry Yates.....	△	KDUB	do.	PG	X	American S. S. Co.	Owner.
Hartford.....	△	KEVR	375 (800), 425 (705), 500 (600)-----	PG	X	Hart-Wood Lumber Co.	Do.
Harvard.....	△	WSCR	do.	PG	N	Los Angeles S. S. Co.	M. R. T. Co.
Do.....	△	WTBY	375 (800), 400 (750), 425 (705), 500 (600)-----	PG	X	Whitman, Ward & Lee Co.	R. M. C. A.
Harvester.....	△	KDHC	375 (800), 425 (705), 500 (600)-----	PG	X	Texas Co.	Do.
Harvey E. Brown.....	△	WEDA	375 (800), 410 (730), 425 (705)-----	PG	X	Stewart Furnace Co.	R. C. A.
Hastings.....	△	KDDL	375 (800), 425 (705), 500 (600)-----	PG	X	U. S. S. B.	R. M. C. A.
Hatteras.....	△	WDDF	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)-----	PG	X	do.	Do.
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)-----	PG	N	Atlantic Gulf & West Indies S. S. Lines.	Do.
Hawaiian.....	△	WACG	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)-----	PG	X	American-Hawaiian S. S. Co.	Owner.
Hawaiian Standard.....	△	WOOD	375 (800), 425 (705), 500 (600)-----	PG	X	Standard Oil Co. of California	R. M. C. A.
Hazel Robb.....	△	WIDR	2,320 (129.3)-----	P	X	Nakat Packing Corp.	Owner.
H. C. Cadmus.....	△	WQBL	375 (800), 425 (705), 500 (600)-----	PG	X	New Orleans Coal & Bisso Towboat Co.	R. M. C. A.
H. C. Folger.....	△	WFCW	375 (800), 400 (750), 425 (705), 46S (640), 500 (600)-----	PG	X	Atlantic Refining Co.	Do.
Heber.....	△	KDDU	do.	PG	X	Los Angeles S. S. Co.	M. R. T. Co.
Heffron.....	△	WBAI	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)-----	PG	X	Heffron S. S. Co.	R. M. C. A.
Hegira.....	△	KIDF	do.	PG	X	Hegira S. S. Co.	Do.
Heigh-Ho.....	△	WPBX	do.	PG	X	A. E. Walbridge	Do.
Helen.....	△	WKCF	375 (800), 425 (705), 500 (600)-----	PG	X	A. H. Bull S. S. Co.	Do.
Do.....	△	WHDX	3,230 (36.45), 3,570 (35.01)-----	P	X	John J. Matheson	Owner.
Helen Whittier.....	△	KJAO	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)-----	PG	X	Los Angeles S. S. Co.	R. M. C. A.
Henry D. Whiton.....	△	KDRM	375 (800), 425 (705), 500 (600)-----	PG	X	Union Sulphur Co.	Owner.
Henry Ford II.....	△	KFTD	375 (800), 394 (760), 410 (730), 425 (705)-----	PG	X	Ford Motor Co.	R. C. A.
Henry G. Dalton.....	△	KGAE	375 (800), 410 (730), 425 (705)-----	PG	X	Interlake S. S. Co.	Do.
Henry M. Flagler.....	△	WOCK	375 (800), 425 (705), 500 (600)-----	PG	X	Florida East Coast Car Ferry Co.	R. M. C. A.
Henry P. Werner.....	△	KFTN	375 (800), 410 (730), 425 (705)-----	PG	X	Eastern S. S. Corp.	Owner.
Henry R. Mallory.....	△	WHCF	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)-----	PG	N	Mallory S. S. Co.	R. M. C. A.
Henry S. Grove.....	△	KDLN	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	Nautilus S. S. Corp.	Do.
Herbert G. Wylie.....	△	WTBK	375 (800), 400 (750), 425 (705), 46S (640), 500 (600)-----	PG	X	Pan American Petroleum & Trans- port Co.	Do.
Herbert L. Pratt.....	△	WFCX	do.	PG	X	Atlantic Refining Co.	Do.
Heredia.....	△	KDAH	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), 46S (640), 500 (600), 3,42S (87.51), 5,52S (54.3), 8,490 (35.34), 11,230 (26.71)-----	PG	N	United Fruit S. S. Corp.	T. R. T. Co.
Herman Falk.....	△	KDPQ	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	Oil Transport Co.	R. M. C. A.
Herman Frasch.....	△	KDLW	375 (800), 425 (705), 500 (600)-----	PG	X	Union Sulphur Co.	Owner.
Heron.....	△	KUDF	do.	PG	X	Portland Trawling Co.	R. M. C. A.
H. F. Alexander.....	△	WGCO	125 (2,400), 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.
H. H. Rogers.....	△	WOCQ	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 46S (640), 500 (600)-----	PG	X	Standard Shipping Co.	R. M. C. A.
Hies-Marco.....	△	WJDY	do.	PG	X	H. E. Manville	Do.
Higbo.....	△	KUBV	375 (800), 425 (705), 500 (600)-----	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.....Δ	KGCK	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Charles Boldt.....	M. R. T. Co.
Hilton.....	WKCG	do.....	PG	X	A. H. Bull S. S. Co.....	R. M. C. A.
H. M. Flagler.....Δ	WOOR	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.....Δ	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.
Homer.....	KUMG	375 (800), 400 (750), 410 (730), 454 (660), 500 (600)	PG	X	Merritt Chapman & Scott Corp.....	Do.
Horace Luckenbach.....Δ	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.
Hoxic.....	KEMK	do.....	PG	X	U. S. S. B.....	Do.
H. T. Harper.....Δ	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.....Δ	KFCJ	410 (730), 425 (705)	PG	X	American S. S. Co.....	Owner.
Hugotob.....	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.....	Do.
Humaconna.....	KIGC	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	Merrill & Ring Lumber Co.....	Owner.
Humboldt.....	WBDZ	375 (800), 425 (705), 500 (600)	PG	N	Los Angeles-San Francisco Nav. Co.....	Do.
Humrick.....	KIFN	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	Ford Motor Co.....	R. C. A.
Huron.....Δ	WBCC	143 (2,100), 159 (1,585), 394 (760), 410 (730), 425 (705)	P	X	Wyandotte Transportation Co.....	Owner.
Do.....	WADQ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Clyde S. S. Co.....	R. M. C. A.
Hussar.....	KFZV	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.....Δ	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. Pieper.....	Do.
I. J. Merritt.....	KOVZ	375 (800), 425 (705), 500 (600)	PG	X	Merritt, Chapman & Scott Corp.....	R. M. C. A.
Illinois.....Δ	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.....Δ	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).	PG	X	Cornelius Crane.....	R. M. C. A.
Imlay.....	KIZV	375 (800), 425 (705), 500 (600)	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.....△	KDHP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transportation Co.....	Do.
Indiana.....	WPCZ	375 (800), 410 (730), 425 (705)	PG	X	Goodrich Transit Co.....	R. C. A.
Innoko.....	KITJ	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	R. M. C. A.
Interlake S. S. Co. (general call for all vessels).	WPAA	do			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.....	WCH	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.
Iolanthe.....	KGGL	2,311 (129.8), 4,312 (69.56), 8,625 (34.78)	P	X	John S. Phipps.....	Owner.
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.....	Do.
Ipswich.....	KILV	do	PG	X	Lancaster S. S. Corp.....	R. M. C. A.
Irene.....	KOKT	do	PG	X	A. H. Bull S. S. Co.....	Do.
Do.....	WQBE	do	PG	X	American Tow Boat Co.....	Owner.
Irene L.....	WGDG	2,265 (132.4), 5,600 (53.57)	P	X	Crosby Fisheries.....	Do.
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)	PG	N	New York & Miami S. S. Co.....	R. M. C. A.
Do.....	KGYY	375 (800), 425 (705), 500 (600)	PG	N	do	Do.
Isaac T. Mann.....△	WBCJ	do	PG	X	Bellingham Barge & Tug Co.....	Owner.
Ishpeming.....△	KFLL	375 (800), 410 (730), 425 (705)	PG	X	Pocahontas S. S. Co.....	R. M. C. A.
Isidoro Pons.....	KZDT	500 (600)	PG	X	Cleveland Cliffs S. S. Co.....	
Isas Filipinas.....	KZBX	do	PG	X	Compania General de Tabacos de Filipinas.	Owner.
Isas Visayas.....	KZEV	425 (705), 500 (600)	PG		Compania Maritima.....	Do.
Isthmian S. S. Co. (general call for all vessels).	KFWV	do			Cebu Navigation Co.....	Do.
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.....△	KDXX	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.....	
James Ellwood Jones.....△	KESA	375 (800), 425 (705), 500 (600)	PG	X	Pocahontas S. S. Co.....	Do.
James Griffiths.....	KUTE	do	PG	X	Coastwise S. S. & Barge Co.....	Do.
James MacNaughton.....△	KFCN	375 (800), 410 (730), 425 (705)	PG	X	Wilson Transit Co.....	
James McGee.....△	WOCT	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.....	Do.
James P. Walsh.....△	KDXW	375 (800), 410 (730), 425 (705)	PG	X	Pioneer 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 settled by—
J. A. Moffett.....Δ	WOCI	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.....Δ	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.....Δ	KDHO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transpn. Co.....	R. M. C. A.
Java Arrow.....Δ	KDHQ	do.....	PG	X	do.....	Do.
J. C. Donnell.....	WFCY	do.....	PG	X	Atlantic Refining Co.....	Do.
J. C. Fitzsimmons.....Δ	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.
Jeannette E.....	KGJK	454 (660), 500 (600)	PG	X	do.....	Do.
Jeannette Skinner.....	WEDM	2,320 (129.3)	P	X	Alaska Pacific Salmon Corp.....	Do.
Jeff Davis.....	KDQF	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	R. M. C. A.
Jefferson.....	WECL	125 (2,400), 142 (2,100), 151 (1,985), 159 (1,885), 375 (800), 425 (705), 500 (600).	PG	X	do.....	Do.
Jefferson Myers.....	KDFR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Eastern S. S. Lines, (Inc.).....	Do.
J. E. O'Neil.....	WFCZ	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. Savage.....Δ	KFNU	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Atlantic Refining Co.....	R. M. C. A.
Jessie Fay.....	KFTH	375 (800), 410 (730), 425 (705)	PG	X	Morrow S. S. Co.....	R. C. A.
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	Hollywood Boat & Transpn. Co.....	R. M. C. A.
J. Fletcher Farrell.....	KDHR	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. H. Sheadle.....Δ	KKUI	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sinclair Navigation Co.....	Do.
Jitney.....	WJDA	375 (800), 410 (730), 425 (705)	PG	X	Cleveland Cliffs S. S. Co.....	Owner.
J. J. Sullivan.....Δ	KDXV	143 (2,100), 151 (1,985), 375 (800), 468 (640), 500 (600), 2,320 (129.3)	PG	X	Farwest Fisheries, (Inc.).....	Owner.
J. L. Luckenbach.....Δ	KEXQ	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.....	R. M. C. A.
J. L. Reiss.....	KURJ	375 (800), 425 (705), 500 (600)	PG	X	Luckenbach S. S. Co.....	R. M. C. A.
J. M. Danziger.....Δ	WPCI	375 (800), 410 (730), 425 (705)	PG	X	Reiss S. S. Co.....	Owner.
J. N. Pew.....	KDTP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.....	R. M. C. A.
John A. Donaldson.....	KFTT	do.....	PG	X	Sun Oil Co.....	Do.
John A. Kling.....Δ	KFEI	375 (800), 410 (730), 425 (705)	PG	X	Becker S. S. Co.....	Owner.
John Anderson.....Δ	WDDZ	do.....	PG	X	Rockport S. S. Co.....	R. C. A.
John A. Topping.....Δ	KFXG	do.....	PG	X	Morrow S. S. Co.....	Do.
John C. Kirkpatrick.....	KDQR	do.....	PG	X	Columbia S. S. Co.....	M. R. T. Co.
John Cudahy.....	KFWG	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	P	X	Andrew F. Mahony.....	Owner.
John D. Archbold.....Δ	KDUM	375 (800), 425 (705), 500 (600)	PG	X	Hubble Towing Co.....	R. M. C. A.
John F. Cushing.....	WGDV	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.....	Do.
John G. Munson.....Δ	KFSI	375 (800), 410 (730), 425 (705)	PG	X	Great Lakes Dredge & Dock Co.....	Owner.
		410 (730), 425 (705)	PG	X	Bradley Transpn. Co.....	Owner.

John J. Boland.....	KDWB	375 (800), 410 (730), 425 (705).....	PG	X	American S. S. Co.....	Do.
John Kendall.....	WJDP	1,596 (13,797).....	P	X	City of Detroit.....	Do.
John McCartney Kennedy.....	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 (1,537), 394 (760), 425 (705).....	P	X	Huron Transpn. Co.....	R. M. C. A.
John Worthington.....	KDMN	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	Standard Shipping Co.....	Owner.
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.
Jonar.....	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.....	Owner.
Joseph G. Butler, Jr.....	KDXU	375 (800), 410 (730), 425 (705).....	PG	X	Pioneer S. S. Co.....	R. C. A.
Joseph H. Frantz.....	WIDF	do.....	PG	X	Columbia S. S. Co.....	R. M. C. A.
Josephine.....	KFZS	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	Uzal H. McCarter.....	Do.
Joseph M. Cudahy.....	KDMT	do.....	PG	X	Sinclair Nav. Co.....	Do.
Joseph R. Parrott.....	WOCJ	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.....	Owner.
J. R. Gordon.....	KOML	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	X	Union Sulphur Co.....	R. M. C. A.
Julia Luckenbach.....	WLCD	375 (800), 425 (705), 500 (600).....	PG	X	Luckenbach S. S. Co.....	Do.
Junia.....	WMCW	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.
Kaimiloa.....	KFUH	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.....	R. M. C. A.
K. I. Luckenbach.....	WLCE	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	X	Luckenbach S. S. Co.....	Do.
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.
Koyoia.....	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), 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	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.
Lafcom	KIXK	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Lagonda	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	KVAB	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 Flatonis	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 Hemlock	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 Kytile	WCOU	410 (730), 425 (705)	PG	X	Ford Motor Co.	Do.
Lake Louise	KGGK	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	do	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)	PG	X	Ford Motor Co.	R. C. A.
Lake Treba	KOSQ	375 (800), 425 (705), 500 (600)	PG	X	Lake Treba Transpn. Co.	Do.
Lakina	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	WTBU	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	WFDA	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 Purissima	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.....	KOXS	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.	
Lebore.....	KFAIP	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.....	EDVD	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 (\$7,514), 5,615 (\$3,428), 8,350 (\$5.93), 8,450 (\$5.50), 11,140 (\$6.93), 12,370 (\$4.25), 12,520 (\$3.96), 12,820 (\$3.40)	PG	X	United States Lines	
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	N	Luckenbach S. S. Co.	Do.
Lexington.....	WRCZ	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.	
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.....	KUGZ	do	PG	X	A. H. Bull S. S. Co.	Do.
Lillian Luckenbach.....	WLGG	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.....	WJDG		PG	X	George G. Bourne	Do.
Loon.....	KUGJ	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Portland Trawling Co.	Do.
Lorain.....	KIFZ	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	
Lorraine Cross.....	KDDE	do	PG	X	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.....	WSCP	375 (800), 425 (705), 500 (600).....	PG	X	Standard Transpn. Co.....	R. M. C. A.
Los Angeles.....	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.
Louis Black.....	WQBS	2,750 (100).....	P	X	Wilmington Transpn. Co.....	Owner.
Louise.....	KFYF	375 (800), 425 (705), 500 (600).....	P	X	Marine Products, (Inc.).....	Do.
Louisiana.....	WBCF	do.....	PG	X	Texas Co.....	R. M. C. A.
Louis M. Winslow.....	KGBR	do.....	PG	X	Ocean Trawling Co.....	Do.
Louis R. Davidson.....	KDUH	375 (800), 410 (730), 425 (705).....	PG	X	American S. S. Co.....	Owner.
Lubrico.....	KDUC	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600).....	PG	X	Standard Oil Co. of California.....	M. R. T. Co.
Luzon.....	KZAL	500 (600).....	PG	X	Fernandez Hermanes.....	Owner.
Lyndonia.....	KULZ	375 (800), 425 (705), 500 (600).....	PG	X	C. H. K. Curtis.....	Do.
Lynford E. Geer.....	WADF	375 (800), 410 (730), 425 (705).....	PG	X	Reiss S. S. Co.....	Do.
M. A. Bradley.....	WEDG	do.....	PG	X	Stewart Furnace Co.....	R. C. A.
Mackay Radio & Telegraph Co. (general call for all vessels).....	KGMM	.....	.....	.....	Mackay Radio & Telegraph Co.....	.....
Macaria.....	KZBQ	500 (600).....	.....	.....	Vicente Madrigal.....	Owner.
Macon.....	WBCD	375 (800), 410 (730), 425 (705), 500 (600).....	PG	X	City of New York, Department of Plant & Structures.....	Do.
Mactan.....	KZDW	396 (755), 500 (600).....	PG	.....	Compania Maritima.....	.....
Madison.....	KGBN	375 (800), 400 (750), 425 (705), 500 (600).....	PG	N	Eastern S. S. Lines, (Inc.).....	R. M. C. A.
Magallanes.....	KZDM	396 (755), 500 (600).....	PG	.....	Gutierrez Hermanos.....	Owner.
Magmeric.....	KOJS	375 (800), 425 (705), 500 (600).....	PG	X	South Atlantic S. S. Co.....	R. M. C. A.
Mahoe.....	WNCR	do.....	PG	X	Young Brothers, Ltd.....	Owner.
Mahukoma.....	KENM	375 (800), 500 (600).....	PG	X	Matson Nav. Co.....	.....
Maiden Creek.....	KIPX	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	R. M. C. A.
Maine.....	WKCX	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	X	Fairfield S. S. Corp.....	Do.
Maitland No. 1.....	WCDJ	375 (800), 410 (730), 425 (705).....	PG	X	Toronto, Hamilton & Buffalo Navigation Co.....	R. C. A.
Major Wheeler.....	WFII	375 (800), 425 (705), 500 (600).....	PG	X	Baltimore Insular Line.....	R. M. C. A.
Makawao.....	KDNH	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	X	Matson Nav. Co.....	.....
Makaweli.....	WMAO	375 (800), 425 (705), 500 (600).....	PG	X	do.....	.....
Makona.....	WMAI	do.....	PG	X	do.....	.....
Makiki.....	WMCD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	do.....	.....
Makua.....	KUZF	375 (800), 425 (705), 500 (600).....	PG	X	do.....	.....
Mala.....	KUKL	do.....	PG	X	do.....	Do.
Malabar.....	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.....	KERT	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	X	Malacca S. S. Co.....	Do.
Malama.....	KIBF	375 (800), 425 (705), 500 (600).....	PG	X	Matson Nav. Co.....	Owner.
Malang.....	KDHY	.....	PG	X	Malco S. S. Co.....	R. M. C. A.
Malchace.....	KULC	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).....	PG	X	Malsah S. S. Co.....	Do.
Malibu.....	WQBN	375 (800), 400 (750), 425 (705), 454 (660), 463 (640), 500 (600).....	PG	X	Mrs. May K. Rindge.....	Do.
Maliko.....	WDOI	375 (800), 425 (705), 500 (600).....	PG	X	Matson Nav. Co.....	M. R. T. Co.

Mallema	KIXN	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 (2,100), 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	KILA				do	Do.
Do	KIIB				do	Do.
Maltran	KULB	375 (800), 425 (705), 500 (600)	PG	X	Maltran 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	WMBV	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.	
Manistique	KFRS	375 (800), 410 (730), 425 (705)	PG	X	Reid Towing & Wrecking Co.	Do.
Manitou	WBDH	do	PG	N, X	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	N	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.	
Margaret	WKCH	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	A. H. Bull S. S. Co.	Do.
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	Owner.
Margaret F. Sterling	KFZR	375 (800), 425 (705), 500 (600)	PG	X	Arcade Shipping Co.	Do.
Margo	WKDI		PG	X	B. A. Massee	
Marian Otis Chandler	WBCV	410 (730), 425 (705), 454 (660), 500 (600), 375 (800)	PG	X	Los Angeles S. S. Co.	R. M. C. A.
Mariposa	WTBZ				George D. Rosengarten	
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	R. C. A.
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.	
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.	
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.	
Mary	KTOE	375 (800), 425 (705), 500 (600)	PG	X	A. H. Bull S. S. Co.	Do.
Mary D	KUZN	do	PG	X	Pacific American Fisheries	Do.
Mary Ellen	WIDZ	2,320 (129.3)	P	X	Farvest Fisheries (Inc.)	Owner.
Mary Luckenbach	KDLX	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Luckenbach S. S. Co.	R. M. C. A.
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.
Matinicoek	WBCT	375 (800), 425 (705), 500 (600)	PG	X	Matinicoek S. S. Co.	Do.

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

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RADIO DIVISION, DEPARTMENT OF COMMERCE

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Matsonia.....△	WMCG	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 Genderal de Tabacns de Filipinas.	Owner
Maui.....△	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	M. & J. Tracy (Inc.).....	R. M. C. A.
Mayan.....	KERM	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Gulf Caribbean S. S. Line.....	Do.
Mazama.....	KNUO	375 (800), 425 (705), 500 (600)	PG	X	Mazama S. S. Co.....	Do.
McKeesport.....	KEXB	375 (800) 410 (730) 425 (705), 454 (660), 500 (600)	PG	X	U. S. S. B.....	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	do.....	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.....	KDXI	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				A. E. Fitkin.....	Do.
Memphis.....	KDVY	273 (1,100)	P	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.....	KODI	500 (600)	PG	X	Southern Transpn. Co.....	
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	Mulston 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	N	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	X	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.....	KFST	375 (800), 410 (730), 425 (705)	PG	X	Becker S. S. Co.....	
Michael Tracy.....	WMEE	375 (800), 425 (705), 500 (600)	PG	X	M. & J. Tracy (Inc.).....	Do.
Michigan.....	KEGS	do.....	PG	X	States S. S. Co.....	
Do.....△	KFLN	375 (800), 410 (730), 425 (705)	PG	X	Cleveland Cliffs S. S. Co.....	

Mid-West	WPBU	2750 (109.1)	P	X	Benjamin G. Brinkman	Owner.
Migrant	WJDF		PG	X	Carl Tucker	R. M. C. A.
Mikimiki	WIDI	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600), 2,320 (129.3)	P	X	Young Brothers (Ltd.)	Owner.
Millinocket	WKCI	375 (800), 425 (705), 500 (600)	PG	X	A. H. Buil S. S. Co.	R. M. C. A.
Milton S. Patrick	KGEB	2,750 (109.1)	P	X	Wilmington Transpn. Co.	Owner.
Mimi	WOBZ	2,740 (109.5)	P	X	Bernard S. Shields	Do.
Mineola	KSEE	375 (800), 400 (750), 425 (705), 469 (640), 500 (600)	PG	X	New Orleans & South American S. S. Co.	R. M. C. A.
Minnekahda	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	N	Atlantic Transport Co.	Do.
Minnequa	KIVB	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	American Seantic Line (Inc.)	Do.
Minnesota	WQCY	273 (1,099)	P	X	Inland Waterways Corp.	Owner.
Minnesota	WACL	375 (800), 425 (705), 500 (600)	PG	X	American-Hawaiian S. S. Co.	Do.
Missoula	WJAO	do	PG	X	Hammond Lumber Co.	R. M. C. A.
Missouri	WFDT	273 (1,100)	P	X	Inland Waterways Corp.	Owner.
Missourian	WACM	375 (800) 425 (705) 500 (600)	PG	X	American Hawaiian S. S. Co.	Do.
Mist	WSBZ	375 (800) 400 (750) 425 (705) 468 (640) 500 (600)	PG	X	Bay State Fishing Co.	R. M. C. A.
Mitchell	KOTF	375 (800) 410 (730) 425 (705) 454 (660) 500 (600)	PG	X	U. S. S. B.	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	Eugene F. MacDonald	Do.
Mobile	KFMJ	273 (1,100)	P	X	Inland Waterways Corp.	Owner.
Mobile City	KDCE	375 (800) 425 (705) 500 (600)	PG	X	U. S. Steel Products Co.	R. M. C. A.
Mohawk	WRCE	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	New England S. S. Co.	Do.
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	N	Clyde S. S. Co.	Do.
Mohegan	WRCM	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	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	Standard Transpn. Co.	Do.
Momus	WICT	375 (800), 425 (705), 500 (600)	PG	X	Southern Pacific Co.	Owner.
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	N	Atlantic Transport Co.	R. M. C. A.
Montana	KOJF	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Montanan	WACN	do	PG	X	American Hawaiian S. S. Co.	Owner.
Montanes	KZCQ	630 (475), 500 (600)	PG	X	Todoro R. Yangco	Do.
Montauk	KIXV	375 (800), 425 (705), 500 (600)	PG	X	Atlantic Transport Co.	R. M. C. A.
Montebello	KDPR	375 (800), 400 (750), 425 (705), 454 (660), 500 (600)	PG	X	Union Oil Co. of California	Do.
Monterey	WECW	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	New York & Cuba Mail S. S. Co.	Do.
Montgomery City	KDJZ	375 (800), 425 (705), 500 (600)	PG	X	U. S. Steel Products Co.	Do.
Moody	KDYT	do	PG	X	Astoria Co.	Owner.
Morris S. Tremaine	KFTB	375 (800), 410 (730), 425 (705)	PG	X	Eastern S. S. Corp.	Do.
Mosella	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	U. S. S. B.	
Mount Baker	WQCN	375 (800), 425 (705), 500 (600)	PG	X	Red Salmon Canning Co.	Do.
Mount Clay	KDBX	143 (2,100), 151 (1,985), 425 (705), 500 (600)	PG	N	American Ship & Commerce Nav. corp.	Do.
Mount Evans	KIMT	375 (800), 425 (705), 500 (600)	PO	X	U. S. S. B.	
Mount Hope	WHCQ	375 (800), 500 (600)	PG	X	Providence, Fall River & Newport Steamboat Co.	Do.
Multnomah	WCDD	375 (800), 425 (705), 500 (600)	PG	N	Chas. R. McCormick Lumber Co.	Do.
Munaires	WNCA	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Munaires S. S. Corp.	R. M. C. A.
Munabro	WNCB	375 (800), 425 (705), 500 (600)	PG	X	Munson S. S. Lines	Do.

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—
Munamar.....	WNCC	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), 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.....	Do.
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.
Muncova.....	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	Cleveland Cliffs S. S. Co.....	Do.
Munista.....	WNCF	375 (800), 425 (705), 500 (600)	PG	X	Munson S. S. Line.....	Do.
Munleon.....	KINJ	do	PG	X	Chas. R. McCormick Lumber Co.....	Do.
Munlisto.....	KORT	375 (800), 425 (705), 500 (600)	PG	X	Munson S. S. Lines.....	Do.
Munloyal.....	KOFP	do	PG	X	do	Do.
Munmotor.....	WVOI	do	PG	X	do	Do.
Munorleans.....	WNCG	do	PG	X	do	Do.
Munplace.....	WNCH	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	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), 463 (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.....	Do.
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.
Nakeen.....	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.....	Do.
Nautucket.....	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.....	Do.
Narcissus.....	KDIH	343 (875), 375 (800), 425 (705), 500 (600)	PG	X	do	Owner.
Narwhal.....	KDVP	425 (705), 500 (600)	PG	X	Phillip Shore.....	Do.
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.....	Do.
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.....	Do.
Negros.....	KZEN	400 (750), 500 (600)	PG	X	Compania Maritima.....	Do.
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.

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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.....	WJCV	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	X	Texas Co.....	Do.
Do.....	WECF	141 (2,130), 143 (2,100), 151 (1,985), 160 (1,875), 425 (705), 500 (600).....	PG	N	Eastern S. S. Lines (Inc.).....	Owner.
Niliraga.....	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.....	R. M. C. A.
Nishmaha.....	KEVM	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	X	U. S. S. B.....	M. R. T. Co.
Nizina.....	WCCV	375 (800), 425 (705), 500 (600).....	PG	X	Alaska S. S. Co.....	R. M. C. A.
Nomad.....	WHDC	425 (705), 469 (640), 500 (600), 5,615 (53.43), 8,370 (35.84), 12,550 (23.90).....	P	X	Damon (Inc.).....	Do.
Nora.....	KDQZ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	Grace S. S. Co.....	Do.
Norco.....	KFYB	375 (800), 425 (705), 500 (600).....	PG	X	Northland Transpn. Co.....	Do.
Nor'easter.....	WOB	do.....	PG	X	E. M. Chance.....	Do.
Norfolk.....	WZUA	375 (800), 425 (705), 500 (600).....	PG	X	Coastwise Transpn. Corp.....	Do.
Norma.....	KEKC	do.....	PG	X	Norma S. S. Corp.....	Do.
Norman Bridge.....	WPCJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	Pan-American Petroleum & Transport Co.....	Do.
North American.....	WTBA	375 (800), 410 (730), 425 (705).....	PG	N, X	Chicago Duluth & Georgian Bay Transit Co.....	R. C. A.
North Dakota.....	WRBZ	8,250 (36.36).....	P	X	Utopian Fisheries Co.....	Owner.
Northern Light.....	KGEG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	John Borden.....	R. M. C. A.
North King.....	KFEW	500 (600), 425 (705), 375 (800).....	PG	X	Alaska-Portland Packers Assn.....	Do.
Northland.....	WECG	375 (800), 425 (705), 500 (600).....	PG	N	Eastern S. S. Lines (Inc.).....	Do.
Northwestern.....	WCCW	do.....	PG	N	Alaska S. S. Co.....	M. R. T. Co.
Norwood.....	WEDT	do.....	PG	X	Pacific American Fisheries.....	R. M. C. A.
Nosa Chief.....	WQOE	do.....	PG	X	New Orleans & South American S. S. Co.....	Do.
Nosa King.....	KUSF	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).....	PG	X	do.....	Do.
Nosa Prince.....	KUML	do.....	PG	X	do.....	Do.
Nosa Queen.....	KDCN	do.....	PG	X	do.....	Do.
Nourmahal.....	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), 469 (640), 500 (600).....	PG	N, X	Vincent Astor.....	Do.
Noyo.....	WEDR	375 (800), 425 (705), 500 (600).....	PG	X	National S. S. Co.....	Owner.
Ntra. Sra. De Alba.....	KZAS	500 (600).....	PG	X	Hercules Lumber Co.....	Do.
Ntra. Sra. Del Carmen.....	KZCR	do.....	PG	X	Compania Maritima.....	Do.
Ntra. Sra. de la Paz.....	KZMD	500 (600), 375 (800), 315 (950).....	PG	X	Genato & Co.....	Do.
Oakey L. Alexander.....	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.
Oakman.....	KUGG	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	Do.
Oakmar.....	KDAZ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	X	Calmar S. S. Corp.....	Do.
Oakpark.....	KUNN	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	Do.
Oakspring.....	KOVN	do.....	PG	X	do.....	Do.

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—
Oakwood	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	KGCJ	do	PG	X	Halfhill Packing Corp.	
Octorara	△ WADO	375 (800), 410 (730), 425 (705)	PG	N	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	Carll 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	△ WFDQ	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	WMCZ	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. Dobbeetin	Do.
Oran	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	KFZI	375 (800), 425 (705), 500 (600)	PG	X	do	
Orizaba	WECX	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	WBDL	410 (730), 425 (705)	PG	X	Gravel Motorship Corp.	Owner.
Oscar D. Bennett	△ WPCX	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	WQCT	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.
Ouaganiche	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.
Padnsay	KUQG	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	KDWJ	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	KZBG	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	WPBQ	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	Vicente 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	WHCH	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Mallory S. S. Co.	Do.
Penguin	WHDS	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	Catmar 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

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RADIO DIVISION, DEPARTMENT OF COMMERCE

Name	Cnll signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account set- tled by—
Pennsylvania.....Δ	WKCX	375 (800), 425 (705), 500 (600)	PQ	X	Texas Co.	R. M. C. A.
Pennsylvanian.....Δ	WACT	425 (705), 500 (600)	PQ	X	American Hawaiian S. S. Co.	Owner.
Pennsylvania Sun.....Δ	KFTC	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PQ	X	Sun Oil Co.	R. M. C. A.
Penobscot.....	WXOI	375 (800), 425 (705), 500 (600)	PQ	X	Penobscot S. S. Co.	Do.
Pequonnock.....	WRCP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PQ	X	New England S. S. Co.	Do.
Pere Marquette 15.....Δ	WDCA	375 (800), 410 (730), 425 (705), 394 (760)	PQ	X	Pere Marquette Ry. Co.	Owner.
Pere Marquette 17.....Δ	WDCC	375 (800), 410 (730), 394 (760), 425 (705)	PQ	X	do.	Do.
Pere Marquette 18.....Δ	WDCC	do.	PQ	X	do.	Do.
Pere Marquette 19.....Δ	WDCB	375 (800), 410 (730), 425 (705), 394 (760)	PQ	X	do.	Do.
Pere Marquette 20.....Δ	WDCE	375 (800), 410 (730), 394 (760), 425 (705)	PQ	X	do.	Do.
Pere Marquette 21.....Δ	WDCF	do.	PQ	X	do.	Do.
Pere Marquette 22.....Δ	WDCG	do.	PQ	X	do.	Do.
Perry L. Smithers.....	KUDZ	375 (800), 400 (750), 425 (705), 500 (600)	PQ	X	Booth Fisheries Co.	R. M. C. A.
Peru.....	WKDJ	do.	PQ	X	Jahagan Construction Co.	Do.
Peter H. Crowell.....	KEXT	375 (800), 425 (705), 500 (600)	PQ	X	Mystic S. S. Co.	Do.
Peter Holms.....	KUIP	do.	PQ	X	Chas. R. McCormick Lumber Co.	Owner.
Peter Kerr.....	KUZI	375 (800), 425 (705), 500 (600)	PQ	X	Pacific-Atlantic S. S. Co.	Do.
Peter Reiss.....Δ	WADG	375 (800), 410 (730), 425 (705)	PQ	X	Reiss S. S. Co.	Do.
Peter White.....Δ	KFLO	do.	PQ	X	Presque Isle Transpn. Co.	Do.
Petrel.....	KFDG	375 (800), 425 (705), 500 (600)	PQ	X	Portland Trawling Co.	R. M. C. A.
Do.....	WRBS	2,420 (129.3)	P	X	Nakat Packing Corp.	Owner.
Phantom.....	WHDV	5,525 (54.3), 5,555 (54)	P	X	Thorne Donnelly	Do.
Phillip D. Block.....Δ	WCDG	375 (800), 410 (730), 425 (705)	PQ	X	Pioneer S. S. Co.	Do.
Phoenix.....	WJEO	375 (800), 425 (705), 500 (600)	PQ	X	American Tankers Corp.	R. M. C. A.
Pioneer.....Δ	WOCW	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PQ	X	Standard Shipping Co.	Do.
Do.....	KFMK	375 (800), 410 (730), 425 (705)	PQ	X	Cleveland Cliffs S. S. Co.	Do.
Pipestone County.....	KIMZ	375 (800), 410 (730), 425 (705), 455 (660), 500 (600)	PQ	X	U. S. S. B.	Do.
Plover.....	KUFT	375 (800), 400 (750), 425 (705), 500 (600)	PQ	X	Portland Trawling Co.	Do.
Plymouth.....Δ	WCCX	375 (800), 425 (705), 500 (600)	PQ	X	Plymouth S. S. Co.	Do.
Do.....	WRCH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PQ	X	New England S. S. Co.	Do.
Poinsettia.....	KFIW	425 (705), 500 (600), 8,108 (37)	PQ	X	Walter W. Horne	Owner.
Point Arena.....	KUCD	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PQ	X	Gulf Pacific Line	M. R. T. Co.
Point Bonita.....	KIFQ	375 (800), 425 (705), 500 (600)	PQ	X	do.	Do.
Point Breeze.....Δ	KJEI	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PQ	X	Atlantic Refining Co.	R. M. C. A.
Point Fernin.....	KOCP	375 (800), 425 (705), 500 (600)	PQ	X	Gulf Pacific Line	M. R. T. Co.
Point Gorda.....	WSBK	375 (800), 425 (705), 500 (600), 410 (730), 454 (660)	PQ	X	Swayne & Hoyt	Do.
Point Judith.....	KPAA	375 (800), 425 (705), 500 (600)	PQ	X	Chas. R. McCormick Lumber Co.	Do.
Point Montara.....	KOCN	do.	PQ	X	Gulf Pacific Line	Do.
Point Reyes.....	KUCJ	do.	PQ	X	do.	Do.
Point San Pablo.....	KOZN	do.	PQ	X	do.	Do.
Point San Pedro.....	KDCO	do.	PQ	X	do.	Do.
Point Sur.....	KUKD	375 (800), 425 (705), 500 (600)	PQ	X	do.	Do.
Polarine.....Δ	WOCX	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PQ	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 (1,935), 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 (26.43), 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	N, X	Michigan Transit Corp.....	R. C. A.
Quaker City.....	KOZL	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	R. M. C. A.
Queen.....	WGGR	do.....	PG	N	Pacific S. S. Co.....	M. R. T. Co.
Queen Anne.....Δ	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.....	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.....	KPEF	375 (800), 400 (750), 425 (705), 469 (640), 500 (600).....	PG	X	Quincy S. S. Co.....	R. M. C. A.
Quistconek.....	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.....			do.....	Do.
Radnor.....	KJUE	375 (800), 425 (705), 500 (600).....	PG	X	U. S. S. B.....	
Rajah.....	WNCZ	do.....	PG	X	Munson S. S. Corp.....	Do.
Rawleigh Warner.....Δ	WSCQ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	Sabine Towing Co.....	Do.
Reaper.....	KDLQ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).....	PG	X	Texas Co.....	Do.
Redbird.....Δ	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	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), 468 (640), 500 (600).....	PG	X	All America Cable Co.....	M. R. T. Co.
Relief.....Δ	WHCZ	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), 468 (640), 500 (600).....	PG	X	Merritt, Chapman & Scott Corp.....	R. M. C. A.
Republie.....Δ	KUBJ	375 (800), 450 (750), 425 (705), 468 (640), 500 (600).....	PG	X	Petroleum Nav. Co.....	Do.
Do.....Δ	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.
Republie Lifeboat No. 1.	KSNA	375 (800), 425 (705), 500 (600).....	PG	X	do.....	Do.
Republie Lifeboat No. 2.	KSNB	do.....	PG	X	do.....	Do.
Resolute.....Δ	WKCX	do.....	PG	X	Merritt-Chapman & Scott Corp.....	Do.
Resource.....	WIDP	do.....			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.....Δ	WADH	375 (800), 410 (730), 425 (705).....	PG	X	Reiss S. S. Co.....	Do.
Richard Peck.....Δ	WRCR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).....	PG	X	New England S. S. Co.....	R. M. C. A.
Richfield.....Δ	WKCF	do.....	PG	X	Richfield Oil Co.....	Do.
Richmond.....Δ	WOOF	do.....	PG	X	Standard Oil Co. of California.....	Do.

Do.....	KDOQ	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	P	X	Aiken Tow Boat & Barge Co.....	Owner.
Ripple.....	KFKN	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Bay State Fishing Co.....	R. M. C. A.
Do.....	KFLF	375 (800), 425 (705), 500 (600), 5,525 (54.3), 5,555 (54), 8,590 (36.19)	PG	X	E. E. Bishop.....	Do.
R. J. Hanna.....Δ	KDRD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California.....	Do.
Roanoke.....Δ	KOXV	375 (800), 425 (705), 500 (600)	PG	X	Texas Co.....	Do.
Robert E. Hopkins.....	KDVE	375 (800), 400 (750), 525 (705), 468 (640), 500 (600)	PG	X	Tide Water Oil Co.....	Do.
Robert E. Lee.....Δ	WTCH	137 (2,190), 141 (2,130), 143 (2,100), 151 (1,935), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	N	Robert E. Lee S. S. Corp.....	Do.
Robert Hohson.....	WPBA	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 153 (1,960), 155 (1,935), 394 (760), 410 (730), 425 (705)	PG	X	Interlake S. S. Co.....	R. C. A.
Robert Johnson.....	KLUE	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Pacific Spruce Corp.....	M. R. T. Co.
Robert J. Paisley.....	KFNT	375 (800), 410 (730), 425 (705)	PG	X	Paisley S. S. Co.....	Do.
Robert Luckenbach.....Δ	KUKS	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Luckenbach S. S. Co.....	R. M. C. A.
Robert P. Clark.....	WJCN	375 (800), 425 (705), 500 (600)	PG	X	Gulf Refining Co.....	Do.
Robin Adair.....	KOVM	do	PG	X	Seas Shipping Co.....	Do.
Robin Goodfellow.....	KUBN	do	PG	X	Robin Line S. S. Co.....	Do.
Robin Gray.....	KOXT	do	PG	X	do	Do.
Robin Hood.....	KOTM	do	PG	X	Seas Shipping Co.....	Do.
Rochester.....Δ	KUTZ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Vacuum Oil Co.....	Do.
Roland.....	WGDY	2,740 (109.5)	P	X	Harbor Tug & Barge Co.....	Owner.
Romulus.....	KIDR	375 (800), 425 (705), 500 (600)	PG	X	Steamer Romulus Corp.....	R. M. C. A.
Roosevelt.....	KFHN	do	PG	X	Washington Tug & Barge Co.....	Owner.
Rosamond.....	WNCU	do	PG	X	North American Fisheries	R. M. C. A.
Rosaria.....	WOBU				Louis Bradbury.....	
Rose City.....Δ	WFDG	375 (800), 425 (705), 500 (600)	PG	N	Rose City S. S. Co.....	Owner.
Royal Arrow.....Δ	WSCU	137 (2,190), 143 (2,100), 151 (1,935), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transpn. Co.....	R. M. C. A.
Rudolf N.....	WIDQ	2,320 (129.3)	PG	X	Nakat Packing Corp.....	Owner.
Ruth.....	WKCI	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	A. H. Bull S. S. Co.....	R. M. C. A.
Ruth Alexander.....Δ	WADW	167 (1,796), 375 (800), 425 (705), 500 (600)	PG	X	Robert Dollar Co.....	M. R. T. Co.
Ruth Lykes.....	KOKS	375 (800), 425 (705), 500 (600)	PG	X	Lykes Bros S. S. Co.....	R. M. C. A.
R. W. Stewart.....Δ	WPCL	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Trans- port Co.....	Do.
Sabine Sun.....	WCDO	do	PG	X	Sun Oil Co.....	Do.
Sabotawan.....	KIJJ	375 (800), 425 (705), 500 (600)	PG	X	Finkbine-Guild Transpn. Co.....	Do.
Sacandaga.....	KECS	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	U. S. S. B.....	Do.
Saccarappa.....	WGOI	375 (800), 425 (705), 500 (600)	PG	X	South Atlantic S. S. Co.....	Do.
Sac City.....	KEFB	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	U. S. S. B.....	Do.
Sacco.....	WIDT	2,320 (129.3)	P	X	Nakat Packing Corp.....	Owner.
Saco.....	KEPT	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	U. S. S. B.....	R. M. C. A.
Sagadahoc.....	KTUO	375 (800), 425 (705), 500 (600)	PG	X	Sagadahoc S. S. Corp.....	Do.
Sagaporack.....Δ	KZIU	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	American Scantic Line, (Inc.).....	Do.
Sage Brush.....Δ	WJDJ		PG	X	Shepard S. S. Co.....	Do.
Saguache.....Δ	KEKL	375 (800), 425 (705), 500 (600)	PG	X	American Scantic Line, (Inc.).....	M. R. T. Co.
Sahale.....	KEPR	do	PG	X	U. S. S. B.....	R. M. C. A.
St. Louis.....	KDQX	273 (1,099)	P	X	Inland Waterways Corp.....	Owner.
Sally S.....	WIDM	2,320 (129.3)	P	X	Alaska Pacific Salmon Corp.....	Do.
Salmon King.....	KGBA	375 (800), 425 (705), 500 (600)	PG	X	Crosby Fisheries.....	Do.
Salvador.....	KZBJ	500 (600)	PG	X	Visayan Stevedore-Transpn. Co.....	Do.
Salvager.....	KZBD	do	PG	X	Atlantic, Gulf & Pacific Co.....	Do.
Salvation Lass.....	KIMN	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	R. M. C. A.
Samoa.....	KTUI	do	PG	X	Hammond Lumber Co.....	M. R. T. Co.

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

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RADIO DIVISION, DEPARTMENT OF COMMERCE

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	Mallory 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	WFCD	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), 454 (660), 500 (600)	PG	N	Grace S. S. Co.	Do.
Santa Cecelia	WBDW	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	KIGQ	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.

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.
Santora.....	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 (30.19), 11,050 (27.15), 11,110 (27)	P	X	Benjamin Clayton.....	Owner.
Satoco.....	KOQM	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.....	△ WPBY	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.
Savokla.....	KDBW	125 (2,400), 131 (2,260), 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.....	△ WJLU	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.....	△ KDM L	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. Howe.....	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

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Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Seattle Spirit	KISD	575 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Seaward	KFEH	590 (600), 2,609 (115)	P	X	C. B. De Mills Productions (Inc.)	Owner.
Secandbee	WTCT	375 (800), 410 (730), 425 (705)	PG	X	Cleveland & Buffalo Transit Co.	
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	WNEX	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 Upperco	
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 (69.50), 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	KUFY	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.	
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	WGDY	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				U. S. S. B.	
Sialia	WBDI	137 (2,190), 143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600)	PG	X	A. M. Andrews	Do.
Siboney	WECZ	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	KOJG	do.	PG	X	Clegg Shipbuilding Corp.	R. M. C. A.
Silverspruce	KIGZ	do.	PG	X	do.	Do.
Sinaloa	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 (1,835), 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
KDGK	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
KDGG	Nora.....b	KDMC	Agwimars.....b
KDH	Third Radio Zone (portable).....fx	KDMD	Agwiworld.....b
KDHA	Surichco.....b	KDMG	Estrada Palma.....b
KDHB	Suremico.....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
KDHH	Charles H. Cramp.....b	KDMP	W. H. Libby.....b
KDHI	Intrepid.....b	KDMQ	President Harrison.....b
KDHJ	Bibbco.....b	KDMR	W. S. Miller.....b
KDHK	Yapalaga.....b	KDMS	Samuel L. Fuller.....b
KDHL	Argosy.....b	KDMT	Joseph M. Cudahy.....b
KDHO	Japan Arrow.....b	KDMU	Wichita.....b
KDHP	India Arrow.....b	KDMV	City of Elwood.....b
KDHQ	Java Arrow.....b	KDMZ	District of Columbia.....b
KDHR	J. Fletcher Farrell.....b	KDND	Quinault.....b
KDHS	Wm. Boyce Thompson.....b	KDNE	Exarch.....b
KDHT	Santa Veronica.....b	KDNG	Swiftsure.....b
KDHU	Chilseo.....b	KDNH	Makawao.....b
KDHY	Malang.....b	KDNI	Sunewarkoo.....b
KDID	Oduua.....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	Sunugentco.....b
KDIQ	Cedarhurst.....b	KDNY	Favorite.....b
KDIS	Cascade.....b	KDNZ	Gorgona.....b
KDIT	C. D. Johnson III.....b	KDOB	Ala.....b
KDIV	Olympic.....b	KDOD	Livingstone Roe.....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 Emanuele III.....b	KDOK	Albert E. Watts.....b
KDJG	Pacific Redwood.....b	KDOL	F. C. Latrobe.....b
KDJH	Jane Christenson.....b	KDOM	Annapolis.....b
KDIJ	Nipsic.....b	KDOQ	Richmond.....b
KDJK	Yalza.....b	KDOR	Thomas H. Wheeler.....b
KDJL	Steel Inventor.....b	KDOS	Swift Arrow.....b
KDJO	Oneida.....b	KDOT	President Jefferson.....b
KDJR	Onondaga.....b	KDOW	America.....b
KDJS	Chippewa.....b	KDOZ	President Polk.....b
KDJV	Joseph Seep.....b	KDP	Chomly, Alaska.....fx, fx
KDJY	Natchez.....b	KDPA	President Jackson.....b
KDJZ	Montgomery City.....b	KDPC	Suspearco.....b
KDKB	Eastern Sword.....b	KDPE	Gargoyles.....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	Natlar.....b	KDPR	Montebello.....b
KDKR	Warbler.....b	KDPX	La Placenta.....b
KDKS	Willet.....b	KDPY	Fairfield City.....b
KDKX	W. J. Hanna.....b	KDQB	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	Suameco.....b	KDQL	Sucubaco.....b
KDLG	Reaper.....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	Munnwill.....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	KDKV	F. H. Hillman.....b
KDRJ	Selma City.....b	KDVL	Birkenhead.....b
KDRK	Swiftagle.....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	KDVG	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	KDWD	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 McKinley.....b	KDWL	Steel Navigator.....b
KDSM	Nashaba.....b	KDWN	Byron D. Benson.....b
KDSO	Lio.....b	KDWP	W. S. Rheem.....b
KDSP	Dixiano.....b	KDWQ	Delaware Sun.....b
KDSQ	Sea Ranger.....b	KDWS	President Roosevelt.....b
KDSR	William F. Humphrey.....b	KDWU	Fortuna.....b
KDSS	W. W. Mills.....b	KDWV	Arbutus.....b
KDSU	Toteco.....b	KDWV	Bethore.....b
KDSV	President Wilson.....b	KDWX	Diana Dollar.....b
KDSW	Atlanta City.....b	KDWY	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
KDTP	Thomas P. Beal.....b	KDXS	W. D. Calverley, jr.....b
KDTP	J. N. Pew.....b	KDXT	John Stanton.....b
KDTR	Memphis City.....b	KDXU	Joseph G. Butler, jr.....b
KDTS	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. Paine.....b
KDTZ	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	Maroro.....b
KDUL	Theodore H. Wickwire, jr.....b	KDZV	Pacific.....b
KDUM	John D. Archbold.....b	KEA	Seldovia, Alaska Radio.....fc, fx
KDUP	Guinevere.....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	Baracon.....b	KEVD	West Corum.....b
KEDQ	West Maximus.....b	KEVF	Edgemoor.....b
KEDR	Willwollo.....b	KEVG	Eldena.....b
KEDT	West Quecheo.....b	KEVM	Nishmaha.....b
KEDV	West Nosska.....b	KEVR	Hartwood.....b
KEDX	West Hardaway.....b	KEVT	Schodack.....b
KEE	Bolinas, Calif.....fx	KEVV	Scholario.....b
KEFB	Sac City.....b	KEW	Balabac, P. I., radio (Palawan).....fc
KEFC	Exford.....b	KEXB	McKeesport.....b
KEFR	Ossining.....b	KEXG	West Nohno.....b
KEFT	Explorer.....b	KEXJ	Golden Forest.....b
KEFX	West Harsbaw.....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 Harcuvar.....b
KEJP	Lake Faulk.....b	KEZN	Pacific Oak.....b
KEJS	West Amargosa.....b	KEZP	West Hematito.....b
KEJX	Transportation.....b	KEZR	West Colina.....b
KEK	Hillsboro, Oreg., radio (Portland).....fc	KFA	Annette Island, Alaska Radio.....fc, fx
KEKC	Norma.....b	KFAG	Bayonne.....b
KEKD	West Cobalt.....b	KFAL	Dolly C.....b
KEKL	Saguache.....b	KFAO	Glendoylo.....b
KEKN	Lake Fanquier.....b	KFBO	Ara.....b
KEKQ	Arlyn.....b	KFBW	Tamarack IV.....b
KEL	Bolinas, Calif.....fx	KFBX	Stephen M. Clement.....b
KELD	Albatross.....b	KFC	Pybus Bay, Alaska.....fx
KEIK	Golden Kauri.....b	KFCG	Steeleore.....b
KELM	Munam.....b	KFCI	Steel Traveler.....b
KELQ	Prusa.....b	KFCJ	Hugh Kennedy.....b
KEM	Bolinas, Calif.....fx	KFCN	James MacNaughton.....b
KEMJ	Panay.....b	KFCS	Walucia III.....b
KEMK	Hoxie.....b	KFCT	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	Petrol.....b
KEMZ	Ballenas.....b	KFDI	Goliath.....b
KEN	Bolinas, Calif.....fx	KFDT	Calawali.....b
KEND	Triumph.....b	KFDW	Gulfbreeze.....b
KENK	West Modus.....b	KFE	Ponca 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	KFEH	Seaward.....b
KENV	Ballcamp.....b	KFEI	John A. Kling.....b
KENX	Balshe.....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. Douy.....b
KERX	Aurora.....b	KFGI	Good Will.....b
KERZ	Cecil County.....b	KFGK	Leroy.....b
KES	Bolinas, Calif.....fx	KFGS	Whitney Olson.....b
KESC	Sacandaga.....b	KFGT	Waimea.....b
KESD	Hamlin F. McCormick.....b	KFGU	George L. Olson.....b
KESG	Sapinero.....b	KFHG	Dickenson.....b
KESQ	Bidwell.....b	KFHN	Roosevelt.....b
KESR	Hampton Roads.....b	KFHW	Poinsettia.....b
KESV	Pueblo.....b	KFIE	Berkshire.....b
KESX	Warwick.....b	KFIG	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 signal	Station	Call signal	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	Tusitala.....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
KFLI	Ishpeming.....b	KFUE	Foam.....b
KFLN	Michigan.....b	KFUG	Thalassa.....b
KPLO	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 Cudahy.....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
KFMM	Douglas.....b	KFXA	Chickamauga.....b
KFMN	John W. Boardman.....b	KFXG	John A. Topping.....b
KFMP	Lebore.....b	KFXI	Wynoka.....b
KFMV	Tiger.....b	KFXK	Charles C. West.....b
KFN	Cape Chacon, Alaska.....fc, fx	KFXP	Tyee.....b
KFNA	Grand Island.....b	KFXQ	J. A. Campbell.....b
KFNB	Richard Holyoke.....b	KFXT	Shadow K.....b
KFNE	Elia.....b	KFXU	Billow.....b
KFNM	Angeline.....b	KFXX	General call for all vessels of Gulf Re- fining Co.....b
KFNN	Cadillac.....b	KFXZ	Breaker.....b
KFNO	Steelmotor.....b	KFY	No. 15 (portable).....fx
KFNP	Marquette.....b	KFYA	Wave.....b
KFNQ	Munising.....b	KFYB	Norco.....b
KFNR	Negaunee.....b	KFYC	Oceanus.....b
KFNS	Presque Isle.....b	KFYE	Thomas Tracy.....b
KFNT	Robert J. Paisley.....b	KFYL	Brandon.....b
KFNU	J. E. Savage.....b	KFYP	Louise.....b
KFNW	Steelevendor.....b	KFYQ	Gloucester.....b
KFO	Oakland, Calif.....fa, fx	KFYU	Mohawk.....b
KFOE	Star of England.....b	KFYX	Seaborn.....b
KFOK	Star of Alaska.....b	KFYY	General call for all vessels of Bay State Fishing Co.....b
KFOM	Sea Salvor.....b	KFYZ	Walucia.....b
KFOW	William K. Field.....b	KFZD	Arminda.....b
KFP	Todd, Alaska.....fx	KFZE	Pawnee.....b
KFPA	Fire Boat No. 31.....b	KFZF	Torrent.....b
KFPC	Fire Boat No. 44.....b	KFZI	Oritani.....b
KFPD	Fire Boat No. 47.....b	KFZJ	Ormes.....b
KFPE	El Paso.....b	KFZL	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	Gulferest.....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
KGAA	Ouananiche.....b	KGJK	Jeannette E.....b
KGAS	Lagonda.....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	Volador.....b	KGJO	Third Radio Zone No. 44 (portable).....fx
KGAX	Haligonian.....b	KGJP	Third Radio Zone No. 43 (portable).....fx
KGAY	Foss No. 21.....b	KGJQ	Third Radio Zone No. 42 (portable).....fx
KGAZ	Yarmouth.....b	KGJR	Phoenix, Ariz.....fa, fx
KGBA	Evangeline.....b	KGJS	San Diego, Calif.....fa, fx
KGBB	Salmon King.....b	KGJT	Mills Field (San Bruno), Calif.....fa, fx
KGBC	Ungava.....b	KGJU	El Paso, Tex.....fa, fx
KGBC	Samona.....b	KGJV	Rogers Field (Los Angeles), Calif.....fa, fx
KGBC	Dorchester.....b	KGJW	Brownsville, Tex.....fa, fx
KGBC	La Merced.....b	KGKA	El Paso, Tex.....fa, fx
KGBC	Brooks-Scanlon.....b	KGKC	Phoenix, Ariz.....fa, fx
KGBC	John N. Stewart.....b	KGKD	Santa Maria, Calif.....fa, fx
KGBC	Bohemia.....b	KGKE	Texas and Louisiana (portable).....fa
KGBC	Madison.....b	KGL	Port Hobron, Alaska.....fc
KGBO	Elton Hoyt II.....b	KGMM	General call for all vessels the radio stations of which are operated by M. R. T. Co.....b
KGBP	David P. Thompson.....b	KGNN	North Bend, Oreg., radio.....fc
KGBC	Alden A. Mills.....b	KGPP	Kake, Alaska.....fc, fx
KGBC	Louis M. Winslow.....b	KGPT	General call for all vessels of Portland Trawling Co.....b
KGBC	Maurice Tracy.....b	KGQ	San Francisco, Calif.....fx
KGCC	Wm. A. Lydon.....b	KGK	Seattle, Wash.....fx
KGCE	Fairfax.....b	KGK	Honolulu, Hawaii.....fx
KGCF	Sumar.....b	KGSA	Williams, Ariz.....fx
KGCF	Oceania Vance.....b	KGSR	Oakland, Calif.....fx, fa
KGCK	Hilda.....b	KGSC	Oklahoma City, Okla.....fx
KGCP	Sea Rover.....b	KGSD	Albuquerque, N. Mex.....fx
KGCC	Sunoco.....b	KGSE	Amarillo, Tex.....fx
KGCV	The Old Timer No. 3.....b	KGST	Tucson, Ariz.....fx
KGCV	Fan Kwai.....b	KGSO	Flagstaff, Ariz.....fx
KGCV	Samson.....b	KGSH	Yuma, Ariz.....fx
KGDC	Sphinx.....b	KGSI	Phoenix, Ariz.....fx
KGDD	Charles G. Black.....b	KGSI	Austin, Tex.....fx
KGDF	Ervina V.....b	KGSK	Dallas, Tex.....fx
KGDG	Absaroka.....b	KGSL	Del Rio, Tex.....fx
KGDE	Western Queen.....b	KGSM	El Paso, Tex.....fx
KGDL	Algonquin.....b	KGSN	Fort Worth, Tex.....fx
KGDN	Cottoneva.....b	KGSO	Houston, Tex.....fx
KGDD	Faith.....b	KGSP	Lordsburg, N. Mex.....fx
KGDS	Vigilant.....b	KGSS	Marfa, Tex.....fx
KGDT	Jezebel.....b	KGSS	Pueblo, Colo.....fx
KGDU	Four Winds.....b	KGST	San Antonio, Tex.....fx
KGDV	Bering.....b	KGST	St. Louis, Mo.....fx
KGDX	Bonnie Brook.....b	KGST	Sweetwater, Tex.....fx
KGEE	Medford, Oreg.....fx, fa	KGST	Wichita Falls, Tex.....fx
KGEB	Milton S. Patrick.....b	KGST	Muskogee, Okla.....fx
KGEC	D. M. Renton.....b	KGST	San Diego, Calif.....fx
KGEE	Northern Light.....b	KGST	Barstow, Calif.....fx
KGEG	Gulf Pride.....b	KGST	Ashfork, Ariz.....fx
KGEP	Astoria.....b	KGST	Fresno, Calif.....fx, fa
KGF	Candle, Alaska.....fx	KGTA	Hollbrook, Ariz.....fx
KGFC	Crusader.....b	KGTB	Gallup, N. Mex.....fx
KGFD	Iroquois.....b	KGTC	Clovis, N. Mex.....fx
KGFE	L. E. Block.....b	KGTD	Wichita, Kans.....fx
KGFG	A. & P. Nakeen No. 7.....b	KGTE	Needles, Calif.....fx
KGFV	Theodore Roosevelt.....b	KGTF	Winslow, Ariz.....fx
KGFZ	Yoroda.....b	KGTH	Kansas City, Mo.....fx
KGG	Heeta Island, Alaska.....fc, fx	KGTH	Salt Lake City, Utah.....fx
KGGE	Chilcop.....b	KGTH	Los Angeles, Calif.....fx
KGGK	Lake Louise.....b	KGTH	Las Vegas, Nev.....fx
KGGL	Iolanthe.....b	KGTK	San Francisco, Calif. (Mills Field).....fa
KGGY	Iroquois.....b	KGTL	Kingman, Ariz.....fx
KGH	Hillshoro, Oreg.....fx	KGX	Los Angeles, Calif.....fx
KGI	Kahuku, Hawaii (Oahu Station).....fx	KGZ	No. 16 (portable).....fx
KGIN	Chatham, Alaska.....fc, fx	KGZZ	General call for all vessels of the Atlantic Refining Co.....b
KGIP	Hydaburg, Alaska.....fx		
KGIS	Excursion Inlet, Alaska.....fc, fx		
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	Uyak, Alaska.....fc, fx	KIKM	Cuzco.....b
KHB	Kvichak, Alaska.....fx	KIKQ	Ambridge.....b
KHC	Chignik, 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	Elmsport.....b
KHH	Port Armstrong, Alaska.....fc, fx	KILJ	Grays Harbor.....b
KHK	Wahiawa, Hawaii, radio (Island of Oahu).....fc	KILK	Colorado Springs.....b
KHL	Wailuku, Hawaii.....fx	KILL	Olympia.....b
KHM	Lihue, Hawaii (Island of Kauai).....fx	KILP	El Capitan.....b
KHN	Kawaihae, Hawaii.....fx	KILR	Seantie.....b
KHO	Kaunakakai, Hawaii (Island of Molokai).....fx	KILT	West Calumb.....b
KHP	Fifth Radio Zone (portable).....fx	KILV	Inswich.....b
KHR	Santa Barbara, Calif.....fx	KILZ	West Cawthon.....b
KHS	Fifth Radio Zone (portable).....fx	KIM	Latouche, Alaska, radio.....fc, fx
KHT	Naknek, Alaska.....fc, fx	KIMC	Tripp.....b
KHU	Warren, Alaska.....fx	KIMD	Deerlodge.....b
KHV	Uyak, Alaska.....fx	KIMG	West Chetac.....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	Shenaneoa.....b	KIMT	Mount Evans.....b
KIBF	Malama.....b	KIMX	Orinoro.....b
KIBQ	Exminster.....b	KIMZ	Pipestone County.....b
KIC	Third Radio Zone (portable).....fx	KINB	Ogontz.....b
KICM	Edgewood.....b	KIND	Falcon.....b
KICN	Tacoma.....b	KINQ	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	Belbeck.....b
KIDF	Hegira.....b	KINR	Berury.....b
KIDQ	Schoodic.....b	KIO	Kahuku, Hawaii.....fx
KIDR	Romulus.....b	KIPG	Doylertown.....b
KIDT	Barrallton.....b	KIPJ	West Chatala.....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	KIPX	Maiden Creek.....b
KIFG	Favorite.....b	KIOC	Westmoreland.....b
KIFJ	Kishacoquillas.....b	KIOD	Cansumset.....b
KIFL	Stellaris.....b	KIQP	Rolivar.....b
KIFN	Humrick.....b	KIOR	Hugoton.....b
KIFP	Golden Eagle.....b	KIOV	Exiria.....b
KIFQ	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	Willmotto.....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	KISJ	Stanley.....b
KIGT	Bessemer.....b	KISK	West Keene.....b
KIGZ	Silverspruce.....b	KISM	Baldbutte.....b
KIH	Skellytown, Tex.....fx	KISQ	Afel.....b
KIHA	Malolo lifeboat.....b	KISR	City of Fairbury.....b
KIIB	do.....b	KISS	Excellency.....b
KIJ	Third Radio Zone (portable).....fx	KISX	Lake Farrar.....b
KIJC	Balsam.....b	KITJ	Innoko.....b
KIJD	Barrenfork.....b	KITK	Bellbuckle.....b
KIJF	Barryton.....b	KITL	Wytheville.....b
KIJJ	Sabotawan.....b	KITP	Genevieve Lykes.....b
KIJL	Dorothy Luckenbach.....b	KITQ	International.....b
KIJM	Brush.....b	KITX	Willfarro.....b
KIJQ	Hoxbar.....b	KITZ	Charcas.....b
KIJT	Buttercup.....b	KIU	Guadalupe, Calif.....fx
		KIV	Puerto Princessa, P. I., radio (Palawan).....fc
		KIVB	Minnequa.....b
		KIVC	Kewanee.....b
		KIVF	Lightburne.....b

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

Call sig- nal	Station	Call sig- nal	Station
KIVQ	Huguenot.....b	KKY	Thrd Radio Zone (portable).....fx
KIVR	Beaconoll.....b	KKZ	Bollinas, Calif.....fx
KIVS	Delfina.....b	KLA	No. 12 (portable).....fx
KIVT	Delisle.....b	KLAO	Lake Crystal.....b
KIVV	West Cactus.....b	KLB	Portland, Oreg.....fx
KIW	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	Lafecoma.....b	KLEI	Lake Allen.....b
KIXR	Tulsa.....b	KLG	No. 9 (portable).....fx
KIXV	Montauk.....b	KLI	Point Warde, Alaska.....fx
KIXX	Mallinak.....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 (Mindanno Island).....fc	KLL	Bollinas, Calif.....fx
KIZB	Domino.....b	KLN	Hilo, 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	Vincen.....b	KLUE	Robert Johnson.....b
KIZV	Imlay.....b	KLUI	Dorothy Wintermote.....b
KIZX	Labette.....b	KLV	Flagstaff, Ariz. (portable).....fx
KJA	No. 17 (portable).....fx	KLW	Port Althorp, 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	KMEF	Cletus Schneider.....b
KJEI	Point Brezo.....b	KMF	Fgegik, Alaska.....fx
KJEU	El Salvador.....b	KMG	Ekuk, Alaska.....fx
KJG	Louisiana, Mississippi, and Texas No. 12 (portable).....fx	KMI	No. 5 (portable).....fx
KJI	Nakeen, Alaska (Bristol Bay).....fc, fa	KMIU	W. M. Burton.....b
KJIE	Walter A. Luckenbach.....b	KMK	Naknek, Alaska.....fx
KJII	Muscataine.....b	KML	Lockanok, Alaska.....fx
KJIO	Paul H. Harwood.....b	KMM	Bollinas, Calif.....fx
KJJ	Mary Island Lighthouse, Alaska.....fc	KMN	San Francisco, Calif.....fx
KJK	King Cove, Alaska, radio.....fc, fx	KMOI	Eldorado.....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	Rasperry 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.....b	KNAE	West Cohas.....b
KJUO	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.....fx
KKD	Thrd 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	Bollinas, Calif.....fx	KNL	Thrd Radio Zone No. 21 (portable).....fx
KKO	Elko, Nev.....fa, fx	KNM	Thrd Radio Zone No. 20 (portable).....fx
KKOA	Dorothy.....b	KNN	Kailua (Honolulu), Hawaii.....fx
KKP	Kahuku, Hawaii.....fx	KNO	Nushagak, Alaska.....fx
KKQ	Bollinas, Calif.....fx	KNP	Chignik, Alaska.....fc, fx
KKR	do.....fx	KNQ	Thrd Radio Zone No. 19 (portable).....fx
KKU	Thrd Radio Zone (portable).....fx	KNR	Clearwater, Calif.....fx
KKUI	J. H. Sheadle.....b	KNS	Thrd Radio Zone No. 18 (portable).....fx
KKV	Thrd Radio Zone (portable).....fx	KNT	Thrd Radio Zone No. 17 (portable).....fx
KKW	Bollinas, Calif.....fx	KNU	Thrd Radio Zone No. 16 (portable).....fx
KKX	Thrd Radio Zone (portable).....fx	KNUO	Mazama.....b
		KNW	Palo Alto, Calif. (near).....fx
		KNY	Thrd Radio Zone No. 12 (portable).....fx
		KNZ	Thrd 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	Dannedake.....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	Hagood.....b
KODF	West Caddoa.....b	KOQF	Trimountain.....b
KODL	Menominee.....b	KOQJ	Cascy.....b
KODN	Endicott.....b	KOQK	Coldbrook.....b
KODQ	Mericos 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 Ellithorpe.....b	KORK	Dryden.....b
KOFN	Cockaponset.....b	KORM	Jadden.....b
KOFP	Munloyal.....b	KORQ	Bogota.....b
KOFS	Bascombel.....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	Curlew.....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	Magmerie.....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	Belleplaine.....b	KOV	Port Herbert, Alaska.....fx
KOKP	Golden Horn.....b	KOVb	Gulftide.....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	Coelleda.....b
KOLL	Clavarack.....b	KOVX	Tampa.....b
KOLP	Cathlamet.....b	KOVZ	I. J. Merritt.....b
KOLT	Effingham.....b	KOX	Pirate Cove, Alaska.....fx
KOLX	Cranford.....b	KOXd	Tashmoo.....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	KOZZ	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	Efina.....b	KOZJ	Nevada.....b
KOMV	Golden Tide.....b	KOZK	West Hika.....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).....fx
KOZN	Point San Pablo.....b	KSA	Seattle, Wash.....fc
KOZP	Vigilant.....b	KSB	Third Radio Zone (portable).....fx
KOZR	Culburra.....b	KSBV	General call for all vessels of U. S. Shipping Board.....b
KOZS	Golden West.....b	KSC	Katalla, Alaska, radio.....fc, fx
KOZZ	Collamer.....b	KSE	Torrence, Calif. (Los Angeles), radio.....fc
KPA	Seattle, Wash.....fx	KSEA	James Ellwood Jones.....b
KPAA	Point Judith.....b	KSEE	Mincola.....b
KPB	Naknek, Alaska (Ilyades moored vessel).....fx	KSEU	Jonaney.....b
KPC	Batangas, P. I. (Batangas), radio.....fc	KSF	Ponca City, Okla.....fx
KPD	Hawk Inlet, Alaska.....fc, fx	KSI	Albuquerque, N. Mex.....fa, ab
KPE	Seattle, Wash., radio.....fc, fx	KSIE	Glen White.....b
KPF	Texas, Louisiana, and New Mexico (portable).....fx	KSIU	Lake Benton.....b
KPH	Bolinas, Calif., radio.....fc	KSIJ	View Cove, Alaska.....fx
KPI	Cebu, P. I., radio.....fc	KSM	Los Angeles, Calif., radio.....fc
KPJ	Culion, P. I. (Palawan), radio.....fc	KSNA	Republic Lifeboat No. 1.....b
KPL	Texas, Louisiana, and New Mexico (portable).....fx	KSNB	Republic Lifeboat No. 2.....b
KPM	Iloilo, P. I., radio (Iloilo).....fc	KSOC	General call for all vessels of Standard Oil Co.....b
KPN	Isabela de Basilan, radio, P. I. (Zamboanga).....fx	KSOI	Contoy.....b
KPR	Port Alexander, Alaska.....fc, fx	KSOU	Bylayl.....b
KPS	Lazy Bay, Alaska.....fx	KSP	Gallup, N. Mex.....fa, ab
KPT	Texas, Louisiana, and New Mexico (portable).....fx	KSR	Tyce, Alaska.....fx
KPU	do.....fx	KSS	Bolinas, Calif.....fx
KPV	Big Port Walter, Alaska.....fx	KST	Clovis, N. Mex.....fa, ab
KPW	Malita, P. I., radio (Davao).....fc	KSU	Breckenridge, Tex.....fx
KPX	Lebak, P. I., radio.....fc	KSV	Winslow, Ariz.....fa, ab
KPY	San Francisco, radio, P. I. (Carnotes-Cebu).....fc	KSW	Berkeley, Calif.....fx
KPZ	Mati, P. I., radio (Davao).....fc	KSX	Kingman, Ariz.....fa, ab
KQC	Rock Springs, Wyo.....fa, fx	KSY	Waynoka, Okla.....fa, ab
KQD	Salt Lake City, Utah.....fa, fx	KSZ	McCamey, Tex.....fx
KQG	Bolinas, Calif.....fx	KTA	Guam, Guam.....fx
KQH	Kahuku, Hawaii.....fx	KTAO	Lake Frances.....b
KQI	Hunters Bay, Alaska.....fx	KTF	Midway Island, Hawaii.....fx
KQIU	West Ekonk.....b	KTI	Iloilo, P. I.....fx
KQJ	Bolinas, Calif.....fx	KTK	Mussell Rock, Calif., radio.....fc
KQL	Hidden Inlet, Alaska.....fc, fx	KTL	Cebu, P. I.....fx
KQM	Des Moines, Iowa.....fa, fx	KTN	Manila, P. I.....fx
KQOA	Anacortes.....b	KTO	do.....fx
KQOE	Delight.....b	KTOE	Mary.....b
KQP	Minneapolis, Minn.....fc	KTOI	Catherine.....b
KQQ	Iowa City, Iowa.....fa, fx	KTP	Manila, P. I.....fx
KQR	Bolinas, Calif.....fx	KTQ	L. & McN. & L. V. No. 1, (permanently moored vessel in Kvichak River, Bristol Bay, Alaska).....fc, fx
KQS	Independence, Calif.....fx	KTR	Manila, P. I.....fx
KQT	Los Angeles, Calif.....fx	KTS	Tolong, P. I.....fx
KQU	Killisnoo, Alaska.....fx	KTT	Drier Bay, Alaska.....fx
KQUE	Lancaster.....b	KTU	Redding, Calif.....fa, fx
KQUU	West Gambo.....b	KTUI	Samoa.....b
KQX	Bakersfield, Calif.....fa	KTUO	Sagadahoc.....b
KQZ	Bolinas, Calif.....fx	KTX	Camiguin Island, P. I.....fx
KRA	Cedar Rapids, Iowa.....fa, fx	KTY	Manila, P. I., radio.....fc, fx
KRB	California (portable).....fx	KTZ	Naknek, Alaska.....fx
KRD	Sebastopol, Calif.....fx	KUA	Manila, P. I.....fx
KREA	Emilia.....b	KUB	Koggiung (permanently moored scow in Koggiung River, Alaska).....fx
KRF	Lincoln, Nebr.....fa, fx	KUBB	Cold Harbor.....b
KRG	San Francisco, Calif.....fx	KUBD	Claremont.....b
KRH	San Jose, Calif.....fx	KUBF	San Diego.....b
KRI	Loring, Alaska.....fc, fx	KUBG	Betterton.....b
KRIU	Liberator.....b	KUBJ	Republic.....b
KRJ	Sacramento, Calif.....fx	KUBK	Golden Mountain.....b
KRM	Los Angeles, Calif.....fx	KUBL	Golden Wall.....b
KRN	California (portable).....fx	KUBM	Biboco.....b
KRO	Kahuku, Hawaii.....fx	KUBN	Robin Goodfellow.....b
KRQ	Kaunapalapa, Hawaii.....fx	KUBV	Higo.....b
KRR	Texas, Louisiana, and New Mexico (portable).....fx	KUC	Panabutan, P. I.....fx
KRS	do.....fx	KUCD	Point Arena.....b
KRT	do.....fx	KUCJ	Holyoke Bridge.....b
KRU	Yes Bay, Alaska.....fc, fx	KUCM	San Antonio.....b
KRUI	Santa Flavia.....b	KUCN	Eastern Guide.....b
KRUU	Socony 88.....b	KUCQ	W. F. Burdell.....b
KRV	Texas, Louisiana, and New Mexico (portable).....fx	KUCR	Lake Giddings.....b
KRW	do.....fx	KUCV	City of Flint.....b
KRX	Chichagof, Alaska, radio.....fc, fx	KUCX	Coldwater.....b
		KUCZ	Bridge town.....b
		KUD	Bacharof, Alaska.....fx

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	Bolinas, 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.....b	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	S. E. do. EYEWITNESS.....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	KUPI	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	Chiloli.....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	Arcturus.....b
KUGZ	Lillian.....b	KURG	Artigas.....b
KUH	Manila, P. I.....fx	KURJ	J. L. Reiss.....b
KUI	Cebu, P. I.....fx	KURM	Willboro.....b
KUIB	The Angeles.....b	KURS	Wisconsin.....b
KUJC	Bayport.....b	KURV	Ohonkara.....b
KUJF	Kerhonkson.....b	KURX	Diamond Cement.....b
KUJM	Coot.....b	KURZ	Suboateco.....b
KJN	Osprey.....b	KUS	Manila, P. I.....fx
KUJP	Peter Helms.....b	KUSB	Suedco.....b
KUJQ	Ethan Allen.....b	KUSC	Sundseco.....b
KUJR	City of Joliet.....b	KUSF	Nosa King.....b
KUJS	Winston-Salem.....b	KUSG	Pennsylvania.....b
KUJX	Liberty Bell.....b	KUSJ	Occidental.....b
KUJZ	Emma H. Coppage.....b	KUSK	Tejon.....b
KUK	Davao, P. I.....fx	KUSL	General call for all vessels of United States Lines.....b
KUKD	Point Sur.....b	KUSN	Aquarius.....b
KUKJ	Oriole.....b	KUSP	Crown City.....b
KUKL	Mala.....b	KUSQ	Massmar.....b
KUKS	Robert Luckenbach.....b	KUSR	Nemaha.....b
KUKV	California.....b	KUST	West Camak.....b
KUKX	Collingsworth.....b	KUTC	West Mahwah.....b
KUL	Pilot Point, Alaska.....fx	KUTD	Oregon.....b
KULB	Maltran.....b	KUTG	Tanana.....b
KULC	Malchace.....b	KUTJ	S. A. Perkins.....b
KULK	Horace Luckenbach.....b	KUTK	James Griffiths.....b
KULM	Ario.....b	KUTM	John P. Reiss.....b
KULN	Arizpa.....b	KUTS	Vacuum.....b
KULT	Commack.....b	KUTT	Birmingham City.....b
KULX	Otho.....b	KUTX	Beaconlight.....b
KULZ	Lyndonia.....b	KUTZ	Rochester.....b
KUM	Mambajao, P. I., radio.....fc	KUU	Steamboat Bay, Alaska (Noyes Island).....fc, fx
KUMC	Utacarbon.....b	KUV	Manila, P. I.....fx
KUMG	Homer.....b	KUVB	Eastern Glen.....b
KUMK	Freeport Sulphur No. 5.....b	KUVC	City of Weatherford.....b
KUML	Nosa Prince.....b	KUVD	Sidney M. Hauptman.....b
KUMM	Golden Harvest.....b	KUVG	Berkshire.....b
KUMN	W. E. Hutton.....b	KUVK	Steel Mariner.....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	Mauban.....b
KUVX	Exanthia.....b	KZBQ	Macaria.....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	Supotco.....b	KZCF	Bohol.....b
KUZN	Mary D.....b	KZCG	Paz.....b
KUZQ	Garnet Hulings.....b	KZCH	Pollilo.....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	Yloilo.....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.....fx	KZDM	Magallanes.....b
KVP	Dallas, Tex.....fa	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.....fx	KZE	Aberdeen, Wash.....fc, fx
KWQ	Saltehuok, Alaska (Kasnan 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	Yusingco.....b
KXD	Signinaka Island, Alaska.....fx	KZEN	Negros.....b
KXX	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	Sagapornack.....b
KXV	Nelson Lagoon, Alaska.....fx	KZJ	Seattle, Wash.....fa, fx
KXW	Ikatan, Alaska, radio.....fc, fx	KZMD	Ntra. Sra. de la Paz.....b
KXB	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.....fx	KZPC	Churruca.....b
KYG	Honolulu, Hawaii, radio.....fx	KZPD	Borongan.....b
KYI	Kings Mill, Tex.....fc	KZS	Boca de Quadra, Alaska.....fx
KYK	Karluk, Alaska (Kodiak Island).....fx	KZU	Uzinki, Alaska.....fc, fx
KYL	Alltak, 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	Nell 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	Minnesotan.....b
KZAT	Vizcaya.....b	WACM	Missourian.....b
KZAV	Venus.....b	WACN	Montanan.....b
KZAW	Susana II.....b	WACP	Nevadan.....b
KZAX	Cebu.....b	WACO	Nebraskan.....b
KZAY	Florence D.....b	WACQ	Ohioan.....b
KZBC	Tong Yok.....b	WACR	Oregonian.....b
KZBD	Salvager.....b	WACS	Panamanian.....b
KZBF	Pompey.....b	WACT	Pennsylvanian.....b
KZBG	Panay.....b	WACU	Texan.....b
		WACV	Virginian.....b
		WACW	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	Charlevoix, 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
WAH	El Dorado, Kans.....fx	WCCD	Amoleo.....b
WAJ	Rocky Point, N. Y.....fx	WCCE	Chincha.....b
WAM	Buffalo, N. Y., radio.....fc, fx	WCCF	Eurana.....b
WAQ	Newark, N. J.....fx	WCCG	Edwin Christenson.....b
WAV	Dearborn, Mich.....fx	WCCJ	Christobal.....b
WAX	Hialeah, Fla., radio.....fc, fx	WCCK	Ancon.....b
WAZ	New Brunswick, N. J.....fx	WCCJ	Joseph R. Parrott.....b
WBA	Harrisburg, Pa.....fx	WCCM	Henry M. Flagler.....b
WBAI	Heffron.....b	WCCN	Plymouth.....b
WBB	Louisiana, Mississippi, and Texas No. 1 (portable).....fx	WCCM	President Johnson.....b
WBCC	Huron.....b	WCCO	Mongolia.....b
WBCE	Macom.....b	WCCQ	Alamada.....b
WBCE	Cambridge.....b	WCCS	Cordova.....b
WBCE	Louisiana.....b	WCCU	El Capitan.....b
WBCE	New York.....b	WCCV	Latoche.....b
WBCE	Texas.....b	WCCW	Ketchikan.....b
WBCE	Freeman.....b	WCCX	Northwestern.....b
WBCE	Isaac T. Mann.....b	WCCY	Redondo.....b
WBCE	Oakey L. Alexander.....b	WCCZ	Victoria.....b
WBCE	Wilson.....b	WCD	Yukon.....b
WBCE	Atlantic.....b	WCD	Louisiana, Mississippi, and Texas No. 13 (portable).....fx
WBCE	Mystic.....b	WCD	Restorer.....b
WBCE	Ardmore.....b	WCD	Fabia.....b
WBCE	Muscogee.....b	WCD	Commercial Guide.....b
WBCE	Westerner.....b	WCD	Philip D. Block.....b
WBCE	Matinicoek.....b	WCD	West Arrow.....b
WBCE	Waban.....b	WCD	Westward Ho.....b
WBCE	Marian Otis Chandler.....b	WCD	Maitland No. 1.....b
WBCE	Sea Thrush.....b	WCD	Exhibitor.....b
WBCE	Louisiana, Mississippi, and Texas No. 2 (portable).....fx	WCD	Willbabeo.....b
WBCE	American Banker.....b	WCD	Stanley Dollar.....b
WBCE	American Farmer.....b	WCD	Sabine Sun.....b
WBCE	Samuel Mitchell.....b	WCD	Multnomah.....b
WBCE	West Gotomaska.....b	WCD	Celilo.....b
WBCE	D. E. Callender.....b	WCD	Wapama.....b
WBCE	Ashtabula.....b	WCD	Willamette.....b
WBCE	Manitou.....b	WCD	Hyades.....b
WBCE	Sialia.....b	WCD	New York, N. Y.....fc
WBCE	Coronado.....b	WCD	Louisiana, Mississippi, and Texas No. 14 (portable).....fx
WBCE	City of Seattle.....b	WCD	Tuckerton, N. J.....fx
WBCE	Ormidale.....b	WCD	Invincible.....b
WBCE	W. F. White.....b	WCD	Hazelton, Pa.....fx
WBCE	Oregon.....b	WCD	Detroit, Mich.....fx
WBCE	Princess Montagu.....b	WCD	Columbus, Ohio.....fx
WBCE	Guardian.....b	WCD	Texas and Louisiana (portable).....fx
WBCE	S. B. Coolidge.....b	WCD	
WBCE	Sierra.....b	WCD	
WBCE	Ventura.....b	WCD	
WBCE	Sonoma.....b	WCD	
WBCE	Tillamook.....b	WCD	
WBCE	W. R. Chamberlain, jr.....b	WCD	
WBCE	Santa Cecilia.....b	WCD	
WBCE	Big Bill.....b	WCD	
WBCE	Velero II.....b	WCD	
WBCE	Humboldt.....b	WCD	

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.....fx	WECX	Orizaba.....b
WCOO	Liberty.....b	WECY	Panuco.....b
WCOU	Lake Kytile.....b	WECZ	Siboney.....b
WCP	Texas and Louisiana (portable).....fx	WED	Rocky Point, N. Y.....fx
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
WDCG	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.....b
WDGP	Ann Arbor No. 5.....b	WEE	Rocky Point, N. Y.....fx
WDCQ	Ann Arbor No. 6.....b	WEF	do.....fx
WDCU	Bantu.....b	WEG	do.....fx
WDCV	Charlton Hall.....b	WEH	Tulsa, Okla.....fx
WDCW	Crofton Hall.....b	WEJ	Rocky Point, N. Y.....fx
WDCX	Howick Hall.....b	VEL	do.....fx
WDCY	San Francisco.....b	WEM	do.....fx
WDCZ	Santa Rosalia.....b	WEN	do.....fx
WDDA	San Pedro.....b	WEO	do.....fx
Wddb	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.....fx
WDDL	Horace X. Baxter.....b	WEU	Marion, Ill.....fa
WDDM	William C. Atwater.....b	WEV	Rocky Point, N. Y.....fx
WDDN	Tyco.....b	WEX	do.....fx
WDDP	John McCartney Kennedy.....b	WEY	Boston, Mass.....fc
WDDR	S. B. Way.....b	WEZ	Rocky Point, N. Y.....fx
WDDS	Starr.....b	WFA	Main base (Byrd Expedition).....fc, fx
WDDT	Colonel.....b	WFAI	West Hobomac.....b
WDDU	Yosemite.....b	WFAO	Volunteer.....b
WDDX	Senator.....b	WFAT	Eleanor Boling.....b
WDDZ	Sea King.....b	WFBT	City of New York.....b
WDEO	John Anderson.....b	WFCA	Comerio.....b
WDH	Steadfast.....b	WFCB	Ponce.....b
WDI	Philadelphia, Pa.....fx	WFCC	Porto Rico.....b
WDIO	Detroit, Mich., radio.....fc, fx	WFCD	San Juan.....b
WDJ	Willangle.....b	WFCE	San Lorenzo.....b
WDM	Harrison, Ohio.....fx	WFCJ	City of Atlanta.....b
WDOI	Menominee, Mich., radio.....fc, fx	WFCK	City of Birmingham.....b
WDOO	Maliko.....b	WFCL	City of Chattanooga.....b
WDS	Federal.....b	WFCM	City of Columbus.....b
WDX	Rocky Point, N. Y.....fx	WFCN	City of Montgomery.....b
WEA	Wyoming, Pa.....fx	WFCO	Somerset.....b
WEB	Rocky Point, N. Y.....fx	WFCP	City of St. Louis.....b
WEC	do.....fx	WFCQ	City of Savannah.....b
WECA	Belfast.....b	WFCR	Commercial Orleanian.....b
WECB	Boston.....b	WFCV	Albert Hill.....b
WECC	Calvin Austin.....b	WFCW	H. C. Folger.....b
WECD	Camden.....b	WFCX	Herbert L. Pratt.....b
WECE	Governor Dingley.....b	WFCY	J. C. Donnell.....b
WECF	New York.....b	WFCZ	J. E. O'Neill.....b
WECG	North Land.....b	WFD	Sub-base (Byrd Expedition).....fc, fx
WECH	Virginia Express.....b	WFDA	Lansing.....b
WECI	Virginia Limited.....b	WFDC	American Trader.....b
WEJ	George Washington.....b	WFDE	San Juan.....b
WECK	Hamilton.....b	WFDG	Rose City.....b
WECL	Jefferson.....b	WFDI	Black Point.....b
WECM	City of Bangor.....b	WFDK	C. B. Watson.....b
WECR	Agwistar.....b	WFDL	Dorothy Bradford.....b
WECS	Antilla.....b	WFDM	American Merchant.....b
WECT	Camaguey.....b	WFDN	La Broa.....b
WECU	Cauto.....b	WFDO	Los Angeles.....b
WECV	Mexico.....b	WFDP	Olcum.....b
		WFDQ	General Markham.....b
		WFDT	Marquette & Bessomer No. 2.....b
			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
WFEI	Constance Chandler.....b	WHCD	Comal.....b
WFO	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. Connolly.....b
WFOO	William N. Page.....b	WHCW	Gene Crawley.....b
WFP	Third Radio Zone No. 9 (portable).....fx	WHCX	Governor Cobb.....b
WFPQ	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	Zelda.....b
WGB	Third Radio Zone (portable).....fx	WHDN	Fairfield.....b
WGBG	General call for any or all merchant vessels.....b	WHDO	Alabama.....b
WGC	Ninth Radio District (portable).....fx	WHDR	Warrior.....b
WGCA	Admiral Dewey.....b	WHDS	Ulua.....b
WGCB	Admiral Evans.....b	WHDT	Tolua.....b
WGCC	Admiral Farragut.....b	WHDV	Penguin.....b
WGCD	Admiral Fiske.....b	WHDW	William J. O'Brien.....b
WGCE	Admiral Moser.....b	WHDX	Phantom.....b
WGCF	Admiral Peary.....b	WHDY	Idler.....b
WGCG	Admiral Rodman.....b	WHDZ	Helena.....b
WGCH	Admiral Rogers.....b	WHF	Blaine.....b
WGCI	Admiral Schley.....b	WHG	Halcyon.....b
WGQJ	Admiral Sebree.....b	WHH	Williamsport, Md.....fx
WGCK	Admiral Watson.....b	WHI	Columbus, Ohio.....fa, ab
WGCL	Curaçao.....b	WHL	Cheat Haven, W. Va.....fx
WGCN	Emma Alexander.....b	WHM	Butler, Pa.....fx
WGCO	H. F. Alexander.....b	WHQ	Altoona, Pa.....fx
WGQQ	Dorothy Alexander.....b	WHR	Indianapolis, Ind.....fa, ab
WGCR	Queen.....b	WHU	Mackinac Island, Mich., radio.....fc, fx
WGCV	South American.....b	WHV	Rocky Point, N. Y.....fx
WGDC	Sinaloa.....b	WHW	Jersey City, N. J.....fx
WGDD	Queen Anne.....b	WICA	Newark, N. J.....fx
WGDF	Ansonia.....b	WICB	Highland Park, Ill.....fx
WGDG	Irene L.....b	WICD	Comus.....b
WGDK	Karluk.....b	WICE	Creole.....b
WGDL	Zodiac.....b	WICF	El Alba.....b
WGDN	Memory III.....b	WICG	El Almirante.....b
WGDP	Shenango.....b	WICH	El Capitan.....b
WGDQ	Martha Foss.....b	WICI	El Cid.....b
WGDR	Emma R. S.....b	WICJ	El Coston.....b
WGDS	Vanda.....b	WICK	El Dia.....b
WGDT	Colrairie.....b	WICL	El Estero.....b
WGDU	Cormorant.....b	WICM	El Isleo.....b
WGDV	John S. Cushing.....b	WICN	El Lago.....b
WGDX	Roland.....b	WICO	El Mundo.....b
WGDY	Niliaga.....b	WICP	El Norte.....b
WGdz	Queen of Scots.....b	WICQ	El Oceano.....b
WGEA	Easterner.....b	WICR	El Occidente.....b
WGEI	East Indian.....b	WICS	El Oriente.....b
WGG	Tuckerton, N. J.....fx	WICT	El Siglo.....b
WGI	Alpena, Mich., radio.....fc, fx	WICU	El Valle.....b
WGIA	West Grama.....b	WICV	Momus.....b
WGO	Chicago, Ill., radio.....fc, fx	WICW	Tamiahua.....b
WGOI	Saccarappa.....b	WICX	Topla.....b
WGOU	West Cressy.....b	WIDA	Torres.....b
WGT	San Juan, P. R.....fx	WIDB	Dixie.....b
WGU	do.....fx	WIDC	Santa Inez.....b
WGV	Galveston, Tex., radio.....fc, fx	WIDE	Harbor.....b
WGw	Vieques, P. R., radio.....fc, fx	WIDF	Abacena.....b
WGx	San Juan, P. R.....fx	WIDG	Dooddeen.....b
WGz	do.....fx		Kiska.....b
WHC	Allentown, Pa.....fx		Joseph H. Frantz.....b
			Santa Rita.....b

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

Call signal	Station	Call signal	Station
WIDH	Buccaneer.....b	WJH	Washington, D. C.....fx
WIDI	Mikimiki.....b	WJIO	Independence.....b
WIDJ	Temptress.....b	WJIU	Schenectady.....b
WIDK	Beryle E.....b	WJL	Greensburg, Pa.....fx
WIDL	Leonine.....b	WJOA	West Elcasco.....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.....fx
WIDY	E. P. Co. No. 4.....b	WKCA	Carolyn.....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	WKCE	Evelyn.....b
WIO	Fort Morgan, Ala., radio.....fc, fx	WKCF	Helen.....b
WIR	Rocky Point, N. Y.....fx	WKG	Hilton.....b
WIY	do.....fx	WKCH	Margaret.....b
WIZ	New Brunswick, N. J.....fx	WKCI	Millinocket.....b
WJAA	Exton.....b	WKCI	Ruth.....b
WJAO	Missoula.....b	WKCK	Jean.....b
WJCA	Currier.....b	WKCL	Paulsboro.....b
WJCB	Gulf of Mexico.....b	WKCM	Sierra.....b
WJCC	Gulfoast.....b	WKCN	Resolute.....b
WJCD	Gulfand.....b	WKKO	Munbeaver.....b
WJCE	Gulflight.....b	WKCP	Caloria.....b
WJCF	Gulfmaid.....b	WKKQ	Richfield.....b
WJCG	Gulfoil.....b	WKCR	Malabar.....b
WJCH	Gulfqueen.....b	WKCU	Dulcino.....b
WJCI	Gulfstream.....b	WKCX	Pennsylvania.....b
WJCL	Ligonier.....b	WKCX	Coamo.....b
WJCK	Trinidadian.....b	WKCX	Maine.....b
WJCL	Winfred.....b	WKCY	Virginia.....b
WJCM	Senator Bailey.....b	WKCZ	Coastwise.....b
WJCN	Robert P. Clark.....b	WKD	Rocky Point, N. Y.....fx
WJCO	Gulphawk.....b	WKDA	Seabeyville, N. J.....fc
WJCP	Gulfwing.....b	WKDB	Nanuk.....b
WJCQ	Everett.....b	WKDC	Berwindglon.....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	WKDH	Akutan.....b
WJCW	Sewalls Point.....b	WKDI	Margo.....b
WJCX	Stephen R. Jones.....b	WKDJ	Peru.....b
WJCY	Walter D. Noyes.....b	WKDK	Theo.....b
WJCZ	William A. McKenney.....b	WKDL	Miami, Fla.....fa, fx
WJD	New York, N. Y.....fx	WKDM	Violet Ray.....b
WJDA	Jitney.....b	WKDN	Buddy.....b
WJDB	Shenango.....b	WKDO	Koyoia.....b
WJDC	Seven Seas.....b	WKDP	Zalla.....b
WJDD	George W. Mead.....b	WKI	Sayville, N. Y.....fx
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	Celba, 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	Sartaria III.....b	WKQ	do.....fx
WJDN	Tidewater.....b	WKU	do.....fx
WJDO	Alce Cooke.....b	WKUU	West Zeda.....b
WJDP	John Kendall.....b	WKW	Rocky Point, N. Y.....fx
WJDQ	Lankal.....b	WKZ	Cumberland, Md.....fx
WJDR	Sobre Los Olas.....b	WLAA	Sarcxie.....b
WJDS	Ballantrae.....b	WLAE	Barlow.....b
WJDT	Hualalal.....b	WLC	Rogers, Mich.....fc, fx
WJDU	Dorothy Cahill.....b	WLCA	Edgar F. Luckenbach.....b
WJDV	Astoria.....b	WLCB	Edward Luckenbach.....b
WJDY	Hies-Mar.....b	WLOC	F. J. Luckenbach.....b
WJE	Rockport, Wash. (near).....fx	WLCD	Julia Luckenbach.....b
WJEI	Admiral Peoples.....b	WLCE	K. I. Luckenbach.....b
WJEO	Phoenix.....b	WLOF	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	Archer.....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
WLD	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.....fx
WMCB	Enterprise.....b	WNP	Palatka, Fla.....fx
WMCC	Chirikof.....b	WNQ	Fort Lauderdale, Fla.....fx
WMCD	Makiki.....b	WNS	Punta Gorda, Fla.....fx
WMCE	Malolo.....b	WNT	Sanford, Fla.....fx
WMCF	Manoa.....b	WNU	New Orleans, La., radio.....fc, fx
WMCG	Matsonia.....b	WNUO	Brookdale.....b
WMCH	Maui.....b	WNV	St. Augustine, Fla.....fx
WMCI	Wilhelmina.....b	WNW	Philadelphia, Pa., radio.....fc
WMCN	California.....b	WNX	Daytona Beach, Fla.....fx
WMCP	Santa Cruz.....b	WNY	New York, N. Y. (borough of Brook- lyn), radio.....fc
WMCQ	Cacique.....b	WNZ	Fort Pierce, Fla.....fx
WMCS	Essex.....b	WOB	Connellsville, Pa.....fx
WMCT	Gloucester.....b	WOBA	S. T. Crapo.....b
WMCU	Grecian.....b	WOBC	Zapala.....b
WMCV	Howard.....b	WOBE	Larry Doheny.....b
WMCW	Juniaia.....b	WOBG	Shawnee.....b
WMCY	Nantucket.....b	WOBH	Rosario.....b
WMCZ	Ontario.....b	WOBI	Nor'easter.....b
WMD	Fordson, Mich.....fx	WOBJ	Commodore.....b
WMDA	Chicago, Ill.....fx	WOBK	Carl D. Bradley.....b
WME	Duluth, Minn. Radio.....fc, fx	WOBL	General Ashburn.....b
WMEA	Charles L. O'Connor.....b	WOBM	C. C. Webber.....b
WMEE	Michael Tracy.....b	WOBN	Gar, Sr. II.....b
WMEO	F. A. Warner.....b	WOBP	Iolanda.....b
WMH	Baltimore, Md., radio.....fc	WOBY	Nippkontu.....b
WMI	Lawrenceville, N. J.....fx	WOBX	N. & K. No. 2.....b
WMIO	W. H. McGean.....b	WOBY	Barney, jr.....b
WMIU	Charles L. Hutchinson.....b	WOBZ	Mimi.....b
WMJ	Buffalo, N. Y.....fx	WOCA	D. G. Scofield.....b
WML	Sayville, N. Y.....fx	WOCE	Captain A. F. Lucas.....b
WMO	Highland Park, Mich.....fx	WOCC	El Segundo.....b
WMP	Boston, Mass.....fx	WOCD	Hawaiian Standard.....b
WMR	West Palm Beach, Fla.....fx	WOCE	J. C. Fitzsimmons.....b
WMU	Linden, N. J.....b	WOCE	Richmond.....b
WMUE	Cokato.....b	WOCH	S. O. Co. No. 95.....b
WMW	Manitowoc, Wis., radio.....fc, fx	WOCL	J. A. Moffett.....b
WMX	Manistique, Mich., radio.....fc, fx	WOCL	A. C. Bedford.....b
WNAI	Fred W. Green.....b	WOCL	Benjamin Brewster.....b
WNB	Elgin, Ill.....b	WOCM	Charles Pratt.....b
WNBQ	Cressida.....b	WOCN	F. Q. Barstow.....b
WNBG	S. S. Thorpe.....b	WOCO	Fred W. Weller.....b
WNBH	Katherine.....b	WOCP	Glenpool.....b
WNBK	Papoose.....b	WOCQ	H. H. Rogers.....b
WNBX	Xarifa.....b	WOCR	H. M. Flagler.....b
WNC	Ocean Township, N. J.....fx	WOCN	Cities Service Toledo.....b
WNCA	Munaires.....b	WOCT	James McGee.....b
WNCB	Munibro.....b	WOCU	L. J. Drake.....b
WNCC	Munamar.....b	WOCV	O. T. Waring.....b
WNCD	Mundelta.....b	WOCW	Pioneer.....b
WNCE	Munindies.....b	WOCX	Polarine.....b
WNCF	Munisia.....b	WOCY	Princeton.....b
WNCG	Munorleans.....b		

BROADCASTING STATIONS, ALPHABETICALLY BY STATES AND CITIES—Contd.

Location of trans- mitter	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Power (watts in an- tenna)	Location of trans- mitter	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Power (watts in an- tenna)
Hawaii:				Iowa:			
Honolulu.....	KGHB	1,320 (227.3)	250	Ames.....	WOI	560 (536)	3,500
Do.....	KGU	940 (319)	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)	2,500
Jerome.....	KFXD	1,420 (211.3)	50	Davenport.....	WOC	1,000 (300)	1,000
Pocatello.....	KSEI	900 (333)	250	Decorah.....	KWLC	1,270 (236.2)	100
Sandpoint.....	KGKX	1,420 (211.3)	15	Do.....	KGCA	1,270 (236.2)	50
Twin Falls.....	KGIQ	1,320 (227.3)	250	Des Moines.....	WHO	1,000 (300)	1,000
Illinois:				Fort Dodge.....	KFYJ	1,310 (229)	100
Addison 11.....	WMAQ	670 (448)	5,000	Iowa City.....	WSUI	580 (517)	500
Do.....	WMBI	1,080 (277.8)	5,000	Marshalltown.....	KFTB	1,200 (250)	100
Batavia 11.....	WORD	1,480 (202.7)	5,000	Muscatine.....	KTNT	1,170 (256.4)	5,000
Carthage.....	WCAZ	1,070 (280.4)	50	Ottumwa.....	WIAS	1,420 (211.3)	100
Chicago.....	KYW	1,020 (294.1)	8 5,000	Red Oak.....	KICK	1,420 (211.3)	100
Do.....	KFKX	1,020 (294.1)	10,000	Shenandoah.....	KFNF	890 (337)	2,000
Do.....	KYWA	1,020 (294.1)	500	Do.....	KMA	930 (323)	1,000
Do.....	WAAF	920 (326)	500	Sioux City.....	KSCJ	1,330 (225.0)	1,000
Do.....	WCFL	970 (309)	1,500	Waterloo.....	WMT	1,200 (250)	250
Do.....	WCRW	1,210 (247.0)	100				100
Do.....	WEDC	1,210 (247.0)	100	Kansas:			
Do.....	WENR	870 (345)	25,000	Concordia.....	KGCN	1,420 (211.3)	50
Do.....	WBCN	870 (345)	50,000	Kansas City.....	WLBF	1,420 (211.3)	100
Do.....	WGES	1,360 (220.0)	500	Lawrence.....	KFKU	1,220 (245.0)	500
Do.....	WKBI	1,310 (229)	50	Do.....	WREN	1,220 (245.0)	1,000
Do.....	WPCC	570 (529)	500	Manhattan.....	KSAC	580 (517)	1,000
Do.....	WSBC	1,210 (247.0)	100	Milford.....	KFKB	1,050 (285.7)	5,000
Cicero.....	WHFC	1,310 (229)	100	Topeka (near).....	WIBW	1,300 (230.8)	2,500
Cretu 11.....	WLS	870 (345)	5,000	Wichita.....	KFH	1,300 (230.8)	500
Decatur.....	WJBL	1,200 (250)	100	Kentucky:			
Deerfield 12.....	WSOA	1,480 (202.7)	5,000	Hopkinsville 13.....	WFIW	940 (319)	1,000
Desplaines 11.....	WIBO	570 (526)	1,500	Louisville.....	WHAS	820 (366)	5,000
Elgin.....	WGN	720 (417)	25,000	Do.....	WLAP	1,200 (250)	30
Evanston.....	WLBI	1,310 (229)	100	VillaMadonna 14.....	WCKY	1,480 (202.7)	5,000
Galesburg.....	WKBS	1,310 (229)	100	Louisiana:			
Glenview 11.....	WBBM	770 (300)	10,000	Kennerwood 15.....	KWKH	850 (353)	10,000
Harrisburg.....	WEBQ	1,210 (247.0)	100	New Orleans.....	WABZ	1,200 (250)	100
Joliet.....	WCLS	1,310 (229)	100	Do.....	WDSU	1,270 (236.2)	1,000
Do.....	WKBB	1,310 (229)	100	Do.....	WJBO	1,370 (219)	100
La Salle.....	WJBC	1,200 (250)	100	Do.....	WJBW	1,200 (250)	30
Mooseheart 11.....	WJJD	1,130 (265.6)	20,000	Do.....	WSMB	1,320 (227.3)	500
Mount Pros- pect.....	WJAZ	1,480 (202.7)	5,000	Do.....	WWL	850 (353)	5,000
Peoria Heights.....	WMBD	1,440 (208.3)	1,000	Shreveport.....	KTSL	1,310 (229)	100
Quincy.....	WTAD	1,440 (208.3)	500	Do.....	KRMD	1,310 (229)	50
Rockford.....	KFLV	1,410 (212.8)	500	Do.....	KTBS	1,450 (206.0)	500
Rock Island.....	WHBF	1,210 (247.0)	100	Do.....	KWEA	1,210 (247.0)	100
Springfield.....	WCBS	1,210 (247.0)	100	Maine:			
Streator.....	WTAX	1,210 (247.0)	50	Bangor.....	WABI	1,200 (250)	100
Tuscola.....	WDZ	1,070 (280.4)	100	Do.....	WLBZ	620 (484)	250
Urbana.....	WILL	800 (337)	250	Portland.....	WCSH	940 (319)	500
Zion.....	WCBD	1,080 (277.8)	5,000	Maryland:			
Indiana:				Baltimore.....	WCAO	600 (500)	250
Anderson.....	WIBU	1,210 (247.0)	100	Do.....	WCBM	1,370 (219)	100
Brookville.....	WKBV	1,500 (200)	100	Do.....	WFBR	1,270 (236.2)	250
Culver.....	WCMA	1,400 (214.3)	500	Cumberland.....	WTBO	1,420 (211.3)	50
Evansville.....	WGBF	930 (470)	500	Glen Morris (near) 10.....	WBAL	1,060 (283)	10,000
Fort Wayne.....	WGL	1,370 (219)	100	Sallsbury.....	WSMD	1,310 (229)	100
Do.....	WOWO	1,160 (258.0)	10,000	Massachusetts:			
Gary.....	WJKS	1,300 (220.0)	1,250	Boston.....	WBZA	990 (303)	500
Hammond.....	WWAE	1,200 (250)	100	Do.....	WBEI	600 (509)	500
Indianapolis (near).....	WFBM	1,230 (243.0)	1,000	Do.....	WMES	1,500 (200)	50
Indianapolis.....	WKBF	1,400 (214.3)	500	Do.....	WSSH	1,420 (211.3)	250
Laporte.....	WRAF	1,200 (250)	100	Chelsea 17.....	WLOE	1,500 (200)	100
Marion.....	WJAK	1,310 (229)	50	Dartmouth.....	WMAF	1,360 (220.0)	500
Muncie.....	WLBC	1,310 (229)	50	East Spring- field 18.....	WBZ	990 (303)	15,000
South Bend.....	WSBT	1,230 (243.0)	500	Fall River.....	WSAR	1,450 (206.0)	250
Terre Haute.....	WBOW	1,310 (229)	100	Gloucester.....	WEPS	1,200 (250)	100
Valparaiso.....	WRBC	1,240 (241.0)	500	Do.....	WHDH	830 (361)	1,000
West Lafayette.....	WRAA	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)	$\begin{cases} 250 \\ 100 \end{cases}$	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.....	$\begin{cases} \text{WNAC} \\ \text{WBIS} \end{cases}$	1,230 (243.9)	1,000	Kallispeil.....	KGBZ	1,310 (229)	100
Webster.....	WKBE	1,200 (250)	100	Missoula.....	KGHD	1,420 (211.3)	50
Wellesley Hills.....	WBOS	780 (385)	250	Do.....	KUOM	570 (526)	500
Worcester.....	WTAG	580 (517)	250	Vida.....	KGCM	1,420 (211.3)	10
Michigan:				Nebraska:			
Battle Creek.....	WKBP	1,420 (211.3)	50	Clay Center.....	KMMJ	740 (405)	1,000
Berrien Springs.....	WEMC	590 (509)	1,000	Lincoln.....	KFOR	1,210 (247.9)	$\begin{cases} 250 \\ 100 \end{cases}$
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.....	WWJ	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 (229)	50
Fraser ¹⁹	WGHP	1,240 (241.9)	750	York.....	KGBZ	930 (323)	$\begin{cases} 1,000 \\ 500 \end{cases}$
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
Hampton Township ²¹	WBCM	1,410 (212.8)	500	Reno.....	KOH	1,370 (219)	100
Jackson.....	WIBM	1,370 (219)	100	New Hampshire:			
Lapeer.....	WMPC	1,500 (200)	100	Laconia.....	WKAJ	1,310 (229)	100
Ludington.....	WKBB	1,500 (200)	50	Tilton.....	WBRL	1,430 (209.8)	500
Pontiac ¹⁹	WJR	750 (400)	5,000	New Jersey:			
Royal Oak.....	WAGM	1,310 (229)	50	Asbury Park.....	WCAP	1,280 (234.4)	500
Ypsilanti.....	WJBK	1,370 (219)	50	Atlantic City.....	WPG	1,100 (272.7)	$\begin{cases} 5,000 \\ 25,000 \end{cases}$
Minnesota:				Bound Brook ²⁶	WJZ	760 (395)	$\begin{cases} 30,000 \\ 25,000 \end{cases}$
Anoka ²²	WCCO	810 (370)	7,500	Camden.....	WCAM	1,280 (234.4)	500
Collegeville.....	WFBJ	1,370 (219)	100	Carlstadt ²⁶	WHAP	1,300 (230.8)	1,000
Fergus Falls.....	KGDE	1,200 (250)	50	Cliffside ²⁶	WCDA	1,350 (222.2)	250
Fridley.....	WRHM	1,250 (240)	1,000	Do.....	WPAP	1,010 (297)	250
Hallock.....	KGFK	1,200 (250)	50	Do. ²⁶	$\begin{cases} \text{WQAO} \\ \text{WPAP} \end{cases}$	1,010 (297)	250
Minneapolis.....	WHDI	1,180 (254.2)	500	Coytesville ²⁶	WRNY	1,010 (297)	250
Do.....	WDGY	1,180 (254.2)	1,000	Englewood Cliffs.....	WHPP	1,420 (211.3)	10
Do.....	$\begin{cases} \text{WLB} \\ \text{WGMS} \end{cases}$	1,250 (240)	500	Fort Lee.....	WBMS	1,450 (206.9)	250
Northfield.....	KFMX	1,250 (240)	1,000	Hoboken ²⁶	WPCH	810 (370)	500
Do.....	WCAL	1,250 (240)	1,000	Do. ²⁶	WMCA	570 (526)	500
Westcott ²³	KSTP	1,460 (205.5)	10,000	Jersey City.....	WAAT	1,070 (280.4)	300
Mississippi:				Do.....	WKBO	1,450 (206.9)	250
Columbus.....	WCOC	880 (341)	500	Kearny ²⁶	WLWL	1,100 (272.7)	5,000
Greenville.....	WRBQ	1,210 (247.9)	100	Do. ²⁷	WOR	710 (423)	5,000
Gulfport.....	WGCM	1,210 (247.9)	100	Kenilworth ²⁸	WIBS	1,450 (206.9)	250
Hattiesburg.....	WRBJ	1,500 (200)	10	Newark.....	WAAM	1,250 (240)	$\begin{cases} 2,000 \\ 1,000 \end{cases}$
Jackson.....	WJDX	1,270 (236.2)	$\begin{cases} 1,000 \\ 500 \end{cases}$	Do.....	WGCP	1,250 (240)	250
Utica.....	WQBC	1,360 (220.6)	300	Do.....	WNJ	1,450 (206.9)	250
Missouri:				Paterson.....	WODA	1,250 (240)	1,000
Cape Girardeau.....	KFVS	1,210 (247.9)	100	Red Bank.....	WJBI	1,210 (247.9)	100
Clayton.....	KFUO	550 (545)	$\begin{cases} 1,000 \\ 500 \end{cases}$	Secaucus ²⁶	WOV	1,130 (265.5)	1,000
Columbia.....	KFRU	630 (476)	500	Trenton.....	WOAX	1,280 (234.4)	500
Independence ²⁴	KMBC	950 (316)	$\begin{cases} 2,500 \\ 1,000 \end{cases}$	New Mexico:			
Jefferson City.....	WOS	630 (476)	$\begin{cases} 1,000 \\ 500 \end{cases}$	Albuquerque.....	KGGM	1,230 (243.9)	500
Joplin.....	WMBH	1,420 (211.3)	$\begin{cases} 250 \\ 100 \end{cases}$	Raton.....	KGFL	1,350 (222.2)	50
Kansas City.....	WHB	950 (316)	500	State College.....	KOB	1,130 (254.2)	10,000
Do.....	KWKC	1,370 (219)	100	New York:			
Do.....	WDAF	610 (492)	1,000	Amherst ²⁹	WKBW	1,470 (204.1)	5,000
Do.....	WOQ	610 (492)	1,000	Do.....	WGR	550 (545)	1,000
Kirksville.....	KFKZ	1,200 (250)	15	Astoria ²⁶	WGBS	1,180 (254.2)	500
Kirkwood ²⁶	$\begin{cases} \text{KMOX} \\ \text{KFQA} \end{cases}$	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 ²⁶	WEAF	660 (455)	$\begin{cases} 25,000 \\ 50,000 \end{cases}$
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)	$\begin{cases} 250 \\ 100 \end{cases}$	Do.....	$\begin{cases} \text{WSGH} \\ \text{WSDA} \end{cases}$	1,400 (214.3)	500
Do.....	WMAY	1,200 (250)	$\begin{cases} 250 \\ 100 \end{cases}$	Buffalo.....	WEBR	1,310 (229)	$\begin{cases} 200 \\ 100 \end{cases}$
				Do.....	WSVS	1,370 (219)	50
				Canton.....	WCAD	1,220 (245.9)	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)
New York—Con.				Oklahoma:			
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 ²⁹	WKEN	1,040 (288.5)	1,000	Oklahoma City.....	KFIJ	1,470 (204.1)	5,000
Greenville ³⁰	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 ²⁹	WMAK	900 (333)	750	Astoria.....	KFIJ	1,370 (219)	100
Mount Beacon ³¹	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.....	WBQO	1,350 (222.2)	250	Marshfield.....	KOOS	1,370 (219)	50
Do.....	WBNY	1,010 (297)	250	Medford.....	KMED	1,310 (229)	50
Do.....	WJN	1,350 (222.2)	250	Portland.....	KEX	1,180 (254.2)	5,000
Do.....	WKBB	1,350 (222.2)	250	Do.....	KFIJ	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)	100	Do.....	KTBR	1,300 (230.8)	500
Rochester.....	WHEC	1,440 (208.3)	500	Do.....	KWBS	1,500 (200)	15
Do.....	WABO	1,300 (230.8)	1,000	Do.....	KWJJ	1,060 (233)	500
Rossville.....	WBBR	1,200 (232.6)	50	Do.....	KXL	1,250 (240)	500
Saranac Lake.....	WNBZ	700 (380)	50,000	Sylvan.....	KOIN	940 (319)	1,000
South Schenectady.....	WGY	1,490 (201.3)	1,000	Pennsylvania: ³¹			
Syracuse.....	WFBL	900 (333)	750	Allentown.....	WCBA	1,440 (208.3)	250
Do.....	WSYR	570 (526)	250	Do.....	WSAN	1,440 (208.3)	250
Troy.....	WHAZ	1,300 (230.8)	500	Altoona.....	WFBG	1,310 (229)	100
Tupper Lake.....	WHDL	1,420 (211.3)	10	Byberry ³⁵	WCAU	1,170 (256.4)	10,000
Utica.....	WIBX	1,200 (250)	100	Carbondale.....	WNBW	1,200 (250)	5
Victor Township.....	WEAM	1,150 (260.9)	5,000	Elkins Park.....	WIBG	930 (323)	50
Woodside.....	WWRL	1,500 (200)	100	Erie.....	WEDH	1,420 (211.3)	30
North Carolina:				Do.....	WRAX	1,370 (219)	50
Asheville.....	WWNC	570 (526)	1,000	Grove City.....	WSAJ	1,310 (229)	110
Gastonia.....	WRBU	1,210 (247.9)	100	Harrisburg.....	WBAK	1,430 (209.8)	500
Charlotte.....	WBT	1,080 (277.8)	5,000	Do.....	WCOB	1,200 (250)	100
Greensboro.....	WNR	1,440 (208.3)	250	Johnstown.....	WJAC	1,310 (229)	100
Raleigh.....	WPTF	680 (441)	1,000	Lancaster.....	WGAL	1,310 (229)	15
Wilmington.....	WRBT	1,370 (219)	100	Do.....	WKJC	1,200 (250)	100
North Dakota:				Lemoine ³⁶	WHP	1,430 (209.8)	500
Bismarck.....	KFYR	550 (545)	500	Lewisburg.....	WJBU	1,210 (247.9)	100
Devils Lake.....	KDLR	1,210 (247.9)	100	Oil City.....	WLBW	1,260 (238.1)	500
Grand Forks.....	KDJM	1,370 (219)	100	Philadelphia.....	WABY	1,310 (229)	50
Mandan.....	KGCU	1,200 (250)	100	Do.....	WELK	1,370 (219)	100
West Fargo.....	WDAY	1,280 (234.4)	1,000	Do.....	WFAN	610 (492)	500
Ohio:				Do.....	WFI	560 (536)	500
Akron.....	WADC	1,320 (227.3)	1,000	Do.....	WHBW	1,500 (200)	100
Do.....	WFJC	1,450 (206.9)	500	Do.....	WIP	610 (492)	500
Bellefontaine.....	WHBD	1,370 (219)	100	Do.....	WLIT	560 (529)	500
Cambridge.....	WEBC	1,210 (247.9)	100	Do.....	WNAT	1,310 (229)	100
Canton.....	WHBC	1,200 (250)	10	Do.....	WPSW	1,500 (200)	50
Cincinnati.....	WEBC	1,200 (250)	100	Do.....	WRAX	1,020 (294.1)	250
Do.....	WKRC	550 (545)	500	Philadelphia (Frankfort).....	WFKD	1,310 (229)	50
Cleveland.....	WEAR	1,070 (280.4)	1,000	Pittsburgh.....	KQV	1,380 (217.4)	500
Do.....	WIK	1,390 (215.8)	1,000	Do.....	WCAE	1,220 (245.9)	500
Do.....	WJAY	620 (484)	500	Do.....	WJAS	1,290 (232.6)	1,000
Do.....	WTAM	1,070 (280.4)	3,500	Reading.....	WRAW	1,310 (229)	100
Columbus.....	WCAH	1,430 (209.8)	500	Scranton.....	WGBI	880 (341)	250
Do.....	WATU	640 (469)	500	Do.....	WQAN	880 (341)	250
Do.....	WEAO	570 (526)	750	State College.....	WFSC	1,230 (243.9)	500
Do.....	WMAN	1,210 (247.9)	50	Washington.....	WNBO	1,200 (250)	100
Dayton.....	WSMK	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 ³²	WSAI	1,330 (225.6)	500	Wilkinsburg ³⁷	WMBJ	1,500 (200)	100
Mansfield.....	WJW	1,210 (247.9)	100	Do.....	KDKA	980 (306)	25,000
Mason ³³	WLW	700 (420)	25,000	Philippine Islands:			
Springfield.....	WCOS	1,450 (206.9)	500	Manila.....	KZIB	1,153 (260)	20
Staubenville.....	WIBR	1,420 (211.3)	50	Do.....	KZKZ	1,110 (270.3)	100
Toledo.....	WSPD	1,340 (223.9)	500	Do.....	KZRM	726 (413)	1,000
Youngstown.....	WKBN	570 (526)	500	Porto Rico: San Juan.....	WKAQ	890 (337)	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)
Rhode Island:				Texas—Contd.			
Cranston ³⁵	WDWF WLSI	1,210 (247.9)	100	San Antonio.....	KTSA	1,290 (232.6)	³ 2,000 ⁴ 1,000
Newport.....	WMBA	1,500 (200)	100	Do.....	WOAI	1,190 (252.1)	5,000
Pawtucket.....	WPAW	1,210 (247.9)	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	Utah:			
South Carolina:				Ogden.....	KLO	1,370 (219)	³ 200 ⁴ 100
Charleston.....	WBBY	1,220 (250)	75	Salt Lake City.....	KDYL	1,290 (232.6)	1,000
South Dakota:				Do.....	KSL	1,130 (265.5)	5,000
Brookings.....	KFDY	550 (545)	³ 1,000 ⁴ 500	Vermont:			
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	Virginia:			
Rapid City.....	WCAT	1,200 (250)	100	Arlington.....	NAA	690 (435)	1,000
Sioux Falls.....	KSOO	1,110 (270.3)	2,000	Emory.....	WJDW	1,370 (219)	100
Vermillion.....	KUSD	890 (337)	³ 750 ⁴ 500	Ettrick ⁴⁰	WLBG	1,200 (250)	³ 250 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
Tennessee:				Norfolk.....	WBBW	1,270 (236.2)	100
Bristol.....	WOPI	1,500 (200)	100	Do.....	WTAR		
Chattanooga.....	WDOD	1,280 (234.4)	³ 2,500 ⁴ 1,000	Portsmouth.....	WPOR	780 (385)	500
Knoxville.....	WFBC	1,200 (250)	50	Richmond.....	WSEA	1,140 (263.2)	500
Do.....	WNOX	560 (536)	1,000	Do.....	WBBL	1,370 (219)	100
Do.....	WNBK	1,310 (229)	50	Do.....	WMBG	1,210 (247.9)	100
Lawrenceburg.....	WOAN	600 (500)	500	Do.....	WRVA	1,110 (270.3)	1,000
Memphis.....	WGBC	1,430 (209.8)	500	Roanoke.....	WDBJ	930 (323)	³ 500 ⁴ 250
Do.....	WHBQ	1,370 (219)	100	Washington:			
Do.....	WMC	780 (385)	³ 1,000 ⁴ 500	Aberdeen.....	KXRO	1,420 (211.3)	70
Do.....	WMBM	1,500 (200)	10	Bellingham.....	KVOS	1,200 (250)	100
Do.....	WNBR	1,430 (209.8)	500	Des Moines.....	KVI	760 (395)	1,000
Nashville.....	WTNT	1,490 (201.3)	5,000	(near) ⁴¹			
Do.....	WLAC	1,490 (201.3)	5,000	Everett.....	KFBL	1,370 (219)	50
Do.....	WSM	650 (462)	5,000	Lacey.....	KGJ	1,250 (250)	³ 50 ⁴ 10
Springfield.....	WSIX	1,210 (247.9)	100	Longview.....	KUJ	1,500 (200)	10
Union City.....	WOBT	1,310 (229)	15	Pullman.....	KWSC	1,390 (215.8)	500
Whitehaven ³⁹	WREC	600 (500)	³ 1,000 ⁴ 500	Seattle.....	KOL	1,270 (236.2)	1,000
Texas:				Do.....	KFQW	1,420 (211.3)	100
Abilene.....	KFYO	1,420 (211.3)	³ 250 ⁴ 100	Do.....	KJR	970 (309)	5,000
Amarillo.....	WDAG	1,410 (212.8)	250	Do.....	KOMO	920 (326)	1,000
Do.....	KGRS	1,410 (212.8)	1,000	Do.....	KPCB	1,210 (247.9)	50
Austin.....	KUT	1,120 (267.9)	500	Do.....	KPQ	1,210 (247.9)	100
Beaumont.....	KFDM	560 (536)	500	Do.....	KRSC	1,120 (267.9)	50
Brownsville.....	KWWG	1,260 (238.1)	500	Do.....	KTW	1,270 (236.2)	1,000
Brownwood.....	KGKB	1,500 (200)	100	Do.....	KVL	1,370 (219)	100
College Station.....	WTAW	1,120 (267.9)	500	Do.....	KXA	570 (526)	500
Corpus Christi.....	KGFI	1,550 (200)	100	Spokane.....	KFIO	1,230 (243.9)	100
Dallas.....	WFAA	800 (375)	500	Do.....	KFPY	1,390 (215.8)	500
Do.....	KRLD	1,040 (288.5)	10,000	Do.....	KGA	1,470 (204.1)	5,000
Do.....	WRR	1,280 (234.4)	500	Do.....	KHQ	590 (509)	1,000
Dublin.....	KFPL	1,310 (229)	15	Tacoma.....	KMO	1,340 (223.9)	500
El Paso.....	WDAH	1,310 (229)	100	Yakima.....	KIT	1,370 (219)	50
Do.....	KTSM	1,310 (229)	100	West Virginia:			
Fort Worth.....	KFJZ	1,370 (219)	100	Bluefield.....	WHIS	1,420 (211.3)	100
Do.....	KTAT	1,240 (241.9)	1,000	Charleston.....	WOBV	580 (517)	250
Do.....	WBAP	800 (375)	³ 25,000 ⁴ 50,000	Fairmont.....	WMMN	890 (337)	³ 500 ⁴ 250
Galveston.....	KFLX	1,370 (219)	100	Huntington.....	WSAZ	580 (617)	250
Do.....	KFUL	1,290 (232.6)	500	Weirton.....	WQBZ	1,420 (211.3)	60
Greenville.....	KPFM	1,310 (229)	15	Wheeling.....	WVVA	1,160 (253.6)	250
Harlingen.....	KRGV	1,260 (238.1)	500	Wisconsin:			
Houston.....	KPRC	920 (326)	1,000	Beloit.....	WEBW	600 (500)	350
Do.....	KTUE	1,420 (211.3)	5	Brookfield ⁴²	WTMJ	620 (484)	³ 2,500 ⁴ 1,000
Richmond.....	KGHX	1,500 (200)	50	Fond du Lac.....	KFIZ	1,420 (111.3)	100
San Angelo.....	KGKL	1,370 (219)	100	Kenosha.....	WCLO	1,200 (250)	100
San Antonio.....	KGCI	1,370 (219)	100	La Crosse.....	WKBH	1,380 (217.4)	1,000
Do.....	KGDR	1,500 (200)	100	Madison.....	WHA	940 (319)	750
Do.....	KTAP	1,420 (211.3)	100	Do.....	WIBA	1,210 (247.9)	100
Do.....	KGRC	1,370 (219)	100	Manitowoc.....	WOMT	1,210 (247.9)	100
				Milwaukee.....	WHAD	1,120 (267.9)	250
				Do.....	WISN	1,120 (267.9)	250

BROADCASTING STATIONS, ALPHABETICALLY BY STATES AND CITIES—Contd.

Location of trans- mitter	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Power (watts in an- tenna)	Location of trans- mitter	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Power (watts in an- tenna)
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..	WLBL	900 (333)	2, 000				
Superior ⁴³	WEBC	1, 280 (234.4)	1, 000				

¹ Studio at Hollywood.² Studio at Pomona.³ Day.⁴ Night.⁵ Studio at Los Angeles.⁶ Only Construction Permit issued.⁷ Studio at Hartford.⁸ Normally.⁹ Experimentally.¹⁰ Studio at Bridgeport.¹¹ Studio at Chicago.¹² Studio at Forest Park.¹³ Studio at Louisville.¹⁴ Studio at Covington.¹⁵ Additional studios at Shreveport.¹⁶ Studio at Baltimore.¹⁷ Studio at Boston.¹⁸ Studio at Springfield.¹⁹ Studio at Detroit.²⁰ Studio at Grand Rapids.²¹ Studio at Bay City.²² Studio at Minneapolis.²³ Studio at St. Paul.²⁴ Studio at Kansas City.²⁵ Studio at St. Louis.²⁶ Studio at New York.²⁷ Studio at Newark.²⁸ Studio at Elizabeth.²⁹ Studio at Buffalo.³⁰ Studio at Yonkers.³¹ Studio at Poughkeepsie.³² Studio at Rochester.³³ Studio at Cincinnati.³⁴ Studio at Portland.³⁵ Studio at Philadelphia.³⁶ Studio at Harrisburg.³⁷ Studio at Pittsburgh.³⁸ Studio at Providence.³⁹ Studio at Memphis.⁴⁰ Studio at Petersburg.⁴¹ Studio at Tacoma.⁴² Studio at Milwaukee.⁴³ Studio at Duluth.⁴⁴ 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.	930 (300)	{ 25,000 50,000
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 (260.4)	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.....	620 (484)	500
KFBB	Havre, Mont.....	Buttrey 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)	{ 1,000 500
KFEL	Denver, Colo.....	Eugene P. O'Fallon (Inc.).....	940 (319)	250
KFEQ	St. Joseph, Mo.....	Scroggin & Co. Bank.....	560 (536)	2,500
KFGQ	Boone, Iowa, 924 West Second St.....	Boone Biblical College.....	1,310 (229)	100
KFH	Wichita, Kans.....	Radio Station KFH Co.....	1,300 (230.8)	500
KFHA	Gunnison, Colo.....	Western State College of Colorado.	1,200 (250)	50
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
KJFF	Oklahoma City, Okla., Security Bldg.	National Radio Mfg. Co.....	1,470 (204.1)	5,000
KJFI	Astoria, Oreg.....	George Kincaid.....	1,370 (219)	100
KJFM	Grand Forks, N. Dak.....	University of North Dakota.....	1,370 (219)	100
KJFR	Portland, Oreg., 95 Fifth St.....	Ashley C. Dixon & Son.....	1,300 (230.8)	500
KJFY	Fort Dodge, Iowa.....	C. S. Tunwall.....	1,310 (229)	100
KJFZ	Fort Worth, Tex., 1214 M St.....	H. C. Meacham.....	1,370 (219)	100
KFKA	Greeley, Colo.....	Colorado State Teachers College.	880 (341)	{ 1,000 500
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 10,000
KFKZ	Kirksville, Mo.....	Northeast Missouri State Teachers College.	1,200 (250)	15
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)	{ 1,000 500
KFOR	Lincoln, Nebr.....	Howard A. Shuman.....	1,210 (247.9)	{ 250 100
KFOX	Long Beach, Calif., 220 East Anaheim St.	Nichols & Warriner (Inc.).....	1,250 (240)	1,000
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 (223.0)	50
KFPY	Spokane, Wash.....	Symons Broadcasting Co.....	1,300 (215.8)	500
KFQA	Kirkwood, Mo. 6.....	The Principia.....	1,090 (275.2)	5,000
KFQD	Anchorage, Alaska.....	Anchorage Radio Club.....	1,230 (243.0)	100
KFQU	Alma (Holy City), Calif.....	W. E. Riker.....	1,420 (211.3)	100
KFQW	Seattle, Wash., 315 Seneca St.....	KFQW, (Inc.).....	1,420 (211.3)	100
KFQZ	Hollywood, Calif., 1041 North Argyle Ave. 7.....	Taft Radio & Broadcasting Co. (Inc.)	860 (349)	250
KFRC	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)	{ 1,000 500
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	1,290 (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 (546)	{ 1,000 500
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
KFXV	Flagstaff, Ariz.	Mary M. Costigan	1,420 (211.3)	100
KFYO	Abilene, Tex.	{ Kirksey Bros. Battery & Electric Co. }	1,420 (211.3)	{ 250 100
KFYR	Bismarck, N. Dak., 200 Fourth St.	Hoskins-Meyer (Inc.)	550 (546)	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)	{ 1,000 500
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. Poffer	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.	Bechler Electrical Equipment Co.	1,200 (250)	50
KGER	Long Beach, Calif., 435 Pine Ave.	C. Merwin Dobyns	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 (220)	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
KGFI	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	Ravena, Nebr., 318 Grand Ave.	Otto F. Sothman	1,310 (229)	50
KGFX	Pierre, S. Dak., 510 Summit Ave.	Dana McNeill	580 (517)	200
KGGC	San Francisco, Calif.	Golden Gate Broadcasting Co.	1,420 (211.3)	50
KGGF	Picher, Okla.	Dr. D. L. Connell	1,010 (297)	500
KGGM	Albuquerque, N. Mex.	New Mexico Broadcasting Co.	1,230 (243.9)	500
KGIB	Honolulu, Hawaii, 1227 South Bereania 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
KGHF	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	1,500 (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 (212.8)	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)	50
KHJ	Los Angeles, Calif., 1076 W. Seventh St.	Don Lee (Inc.)	900 (333)	1,000
KHQ	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 Brunton & 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)	200
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.)	880 (341)	500
KLZ	Dupont, Colo.	Reynolds Radio Co.	560 (536)	1,000
KMA	Shenandoah, Iowa	May Seed & Nursery Co.	930 (323)	1,000
KMBC	Independence, Mo. ⁹	Midland Broadcasting Co. (Inc.)	950 (316)	2,500
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 ⁶	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. ¹⁰	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)	500
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)	2,500
KOIN	Sylvan, Oreg. ¹¹	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
KPFM	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. ¹²	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.	1,260 (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)	{ 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. ¹³	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. ¹	Pickwick Broadcasting Corp.	780 (385)	500
KTNT	Muscatine, Iowa	Norman Baker	1,170 (256.4)	5,000
KTSA	San Antonio, Tex.	Lone Star Broadcasting Co.	1,290 (232.6)	{ 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)	{ 750 500 }
KUT	Austin, Tex.	KUT Broadcasting Co.	1,120 (267.9)	500
KVI	Des Moines, Wash., Tacoma Hotel, Tacoma, Wash. ¹⁴	Puget Sound Broadcasting Co.	760 (395)	1,000
KVL	Seattle, Wash., Second Ave. and Virginia St.	Arthur C. Dalley	1,370 (219)	100
KVOA	Tucson, Ariz.	Robert M. Riculfi	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., 4005 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	Kennonwood, La., Spring and Fanning Sts. ¹⁵	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 (233.1)	500
KWYO	Laramie, Wyo. Third and Iverson 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)	25,000
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 Philippine.	726 (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)	2,000
WAAT	Jersey City, N. J., 91 Sip Ave.	Bremer Broadcasting Corp.	1,070 (280.4)	300
WAAW	Omaha, Nebr., 1900 Harney St.	Omaha Grain Exchange	660 (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
WAU	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 (209.8)	500
WBAL	Glen Morris, Md. ¹⁶	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
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. ¹⁷	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 (236.2)	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. ¹⁸	James E. Davidson	1,410 (212.8)	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. ¹⁹	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
WBOW	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 (209.8)	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. ²⁰	Westinghouse Electric & Mfg. Co.	990 (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. ²¹	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. Messter.	1,210 (247.9)	100
WCCO	Anoka, Minn. (St. Paul-Minneapolis). ²²	Washburn-Crosby Co.	810 (370)	7,500
WCDA	Cliffside, N. J., 27 Cleveland Place ²³	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. ²⁴	L. B. Wilson (Inc.)	1,480 (202.7)	5,000
WCLB	Long Beach, N. Y., Box 288.	Arthur Fasko	1,500 (200)	100
WCLO	Kenosha, Wis.	C. E. 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
WCOG	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. ²⁵	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
WCSO	Springfield, Ohio	Wittenberg College	1,450 (206.9)	500
WDAB	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., 100 Church Ave., West.	Richardson-Wayland Electrical Corp.	930 (323)	500
WDBO	Orlando, Fla., Winter Park, Fla.	Rollins College	620 (484)	1,000
WDEL	Wilmington, Del., Box 531.	WDEL (Inc.)	1,120 (267.9)	350
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
WDRC	New Haven, Conn., Hotel Taft.	Doolittle Radio Corp.	1,330 (225.6)	1,000
WDSU	New Orleans, La.	Joseph H. Uhalt	1,270 (236.2)	1,000
WDSW	Cranston, R. I. ²⁶	Dutco 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. ²⁷	National Broadcasting Co.	600 (455)	50,000
WEAI	Ithaca, N. Y.	Cornell University	1,270 (236.2)	25,000
WEAN	Providence, R. I.	Shepard Co.	550 (545)	500
WEAO	Columbus, Ohio	Ohio State University	570 (526)	500
WEAR	Cleveland, Ohio, 1100 Chester Ave.	WTAM & WEAR (Inc.)	1,070 (280.4)	750
WEBC	Superior, Wis., 1225 Tower St. ²⁷	Head of the Lakes Broadcasting Co.	1,280 (234.4)	1,070

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)	{ 200 100
WEBW	Beloit, Wis.	Beloit College	600 (509)	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. ²³	Debs Memorial Radio Fund	1, 300 (230.8)	500
WEW	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
WFB�	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)	{ 2, 500 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.)	880 (341)	250
WGBS	Astoria, N. Y., Forty-fourth St. and Eighth Ave. ²³	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., 1403 Macabee Bldg. ²³	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)	{ 1, 000 500
WGST	Atlanta, Ga.	Georgia School of Technology.	890 (337)	{ 500 250
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. ²⁹	Stromberg-Carlson Telephone Mfg. Co.	1, 150 (260.9)	5, 000
WHAP	Carlstadt, N. J., 154 West 57th St., New York, N. Y. ²³	Defenders of Truth Society (Inc.)	1, 300 (230.8)	1, 000
WHAS	Jeffersontown, Ky. ³⁰	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
WBBD	Bellefontaine, Ohio.....	F. P. Moler.....	1,370 (219)	100
WBFB	Rock Island, Ill., 217 Eighteenth St....	Beardsley Specialty Co.....	1,210 (247.9)	100
WBL	Sheboygan, Wis., 626 Center Ave.....	Press Publishing Co. and C. L. Carrell.....	1,410 (212.8)	500
WBQ	Memphis, Tenn., Dermon Bldg.....	Broadcasting Station WBQ (Inc.).....	1,370 (210)	100
WBU	Anderson, Ind., 815 Flat Iron Bldg.....	Citizens Bank.....	1,210 (247.9)	100
WBW	Philadelphia, Pa., 4916 Chestnut St....	D. R. Klenzie.....	1,500 (200)	100
WBYY	West De Pere, Wis.....	St. Norbert's College.....	1,200 (250.0)	100
WDF	Calumet, Mich.....	Upper Michigan Broadcasting Co.....	1,370 (219)	100
WDH	Gloucester, Mass.....	Matheson Radio Co.....	830 (361)	1,000
WDI	Minneapolis, Minn., 818 Superior Boulevard.....	William Hood Dunwoody Industrial Institute.....	1,180 (254.2)	500
WDL	Tupper Lake, N. Y.....	George F. Bissell.....	1,420 (211.3)	10
WEC	Rochester, N. Y., 40 Franklin St.....	Hickson Electric Co.....	1,440 (208.3)	500
WFC	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
WHK	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. ¹⁷	Nelson Bros. Bond & Mortgage Co.....	570 (526)	{ 1,500 1,000
WIBR	Steubenville, Ohio.....	George W. Robinson.....	1,420 (211.3)	50
WIBS	Kenilworth, N. J., 1155 East Jersey St. ³²	New Jersey Broadcasting Corp.....	1,450 (200.9)	250
WIBU	Poynette, Wis.....	William C. Forrest.....	1,310 (229)	100
WIBW	Topeka, Kans., 1100 Kansas Ave.....	Topeka Broadcasting Assn. (Inc.).....	1,300 (230.8)	{ 2,500 1,000
WIBX	Utica, N. Y., 187 Genesee St.....	WIBX (Inc.).....	1,200 (250)	100
WICC	Easton, Conn., 1044 Main St. ³³	Bridgeport Broadcasting Station (Inc.).....	1,190 (252.1)	500
WIL	St. Louis, Mo.....	Missouri Broadcasting Corp.....	1,200 (250)	{ 250 100 500 250
WILL	Urbana, Ill.....	University of Illinois.....	800 (337)	500
WILM	Wilmington, Del.....	Delaware Broadcasting Co. (Inc.).....	1,420 (211.3)	100
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.....	500 (536)	{ 1,000 500
WIP	Philadelphia, Pa., Market and Ninth Sts.....	Gimbel Brothers.....	610 (492)	500
WISN	Milwaukee, Wis., 15 Michigan St.....	Evening Wisconsin Co.....	1,120 (267.0)	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.....	800 (337)	{ 400 250
WJAS	Pittsburgh, Pa., Tenth and Pennsylvania Ave.....	Pittsburgh Radio Supply House.....	1,290 (232.6)	1,000
WJAX	Jacksonville, Fla.....	City of Jacksonville.....	1,200 (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. ¹⁷	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. ¹⁷	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)	{ 1,000 500
WJJD	Mooseheart, 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)	{ 1,250 500
WJR	Pontiac, Mich., twenty-eighth floor Fisher Bldg. ²⁵	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. ²⁵	{ R. C. A.	760 (395)	{ 25,000 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
WKBB	Joliet, Ill., 613 Jefferson St.	Sanders Bros.	1,310 (229)	100
WKBC	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
WKBF	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 Auburndale 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.	Permill N. Nelson	1,310 (229)	100
WKBV	Brookville, Ind., 658 Main St.	Knox Battery & Electric Co.	1,500 (200)	100
WKBW	Amherst, N. Y. ³⁴	Churchill Evangelistic Assn.	1,470 (204.1)	5,000
WKBZ	Ludington, Mich., 101 Ludington Ave.	Karl L. Ashbacher	1,500 (200)	50
WKEN	Grand Island, N. Y. ³⁴	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.	550 (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
WLBK	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	Ettrick, Va. ³⁵	Robert A. Gamble	1,200 (250)	{ 250 100
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)	{ 500 25
WLAI	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)	{ 250 100
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. ¹⁹	Boston Broadcasting Co.	1,500 (200)	{ 250 100
WLS	Crete, Ill., 1230 W. Wash. B'vd., Chicago, Ill. ¹⁷	Agricultural Broadcasting Co.	870 (345)	5,000
WLSI	Cranston, R. I. ²⁶	Dutec 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. ³⁶	Crosley Radio Corp.	700 (429)	{ 25,000 50,000
WLWL	Kearney, N. J., 415 West Fifty-ninth St., New York, N. Y. ²³	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 (520)	250
WMAF	Dartmouth, Mass.	Round Hills Radio Corp.	1,360 (220.6)	500
WMAK	Martinsville, N. Y. ³¹	WMAK Broadcasting System (Inc.).	900 (333)	750
WMAL	Washington, D. C., 712 Eleventh St.	M. A. Leese	630 (476)	4 500 5 250
WMAN	Columbus, Ohio, 1167 East Broad St.	W. E. Heskett	1,210 (247.9)	50
WMAQ	Addison, Ill. ¹⁷	Chicago Daily News Co.	670 (448)	5,000
WMAY	St. Louis, Mo.	Kingshighway Presbyterian Church.	1,200 (250)	4 250 5 100
WMAZ	Macon, Ga.	Macon Junior Chamber of Commerce.	800 (337)	4 500 5 250
WMBA	Newport, R. I., 19 Broadway	Le Roy J. Beebe	1,500 (100)	200
WMBC	Detroit, Mich., Hotel Savoy	Michigan Broadcasting Co. (Inc.).	1,420 (211.3)	100
WMBD	Peoria Heights, Ill., 107 East Glen Ave.	Peoria Heights Radio Laboratory.	1,440 (208.3)	4 1,000 5 500
WMBF	Miami Beach, Fla.	Fleetwood Hotel Corp.	560 (536)	500
WMBG	Richmond, Va., 914 West Broad St.	Havens & Martin	1,210 (247.9)	100
WMBH	Joplin, Mo.	Edwin D. Aber	1,420 (211.3)	4 250 5 100
WMBI	Addison, Ill., 153 Institute Place ¹⁷	Moody Bible Institute Radio Station.	1,080 (277.8)	5,000
WMBJ	Wilkinsburg, 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)	100
WMBM	Memphis, Tenn.	Seven Day Adventist Church.	1,500 (200)	10
WMBO	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)	100
WMC	Memphis, Tenn.	Memphis Commercial Appeal.	780 (385)	4 1,000 5 500
WMCA	Hoboken, N. J. ²³	Knickerbocker Broadcasting Co. (Inc.).	570 (526)	500
WMES	Boston, Mass.	Massachusetts Educational Society, Barristers Hall.	1,500 (200)	50
WMMN	Fairmont, W. Va.	Holt-Rowe Novelty Co.	890 (337)	4 500 5 250
WMPC	Lapeer, Mich.	First Methodist Protestant Church.	1,500 (200)	100
WMRJ	Jamaica, N. Y., 10 New York Blvd.	Peter J. Prinz	1,420 (211.3)	10
WMSG	New York, N. Y., 319 West Fortyninth St.	Madison Square Garden Broadcast Corp.	1,350 (222.2)	250
WMT	Waterloo, Iowa	Waterloo Broadcasting Co.	1,200 (250)	4 250 5 100
WNAC	Quincy, Mass., 30 Winter St., Boston, Mass. ¹⁹	Shepard Norwell Co.	1,230 (243.9)	1,000
WNAD	Norman, Okla.	University of Oklahoma.	1,010 (297)	500
WNAT	Philadelphia, Pa., 827 Spring Garden.	Lennig Bros. Co.	1,310 (229)	100
WNAZ	Yankton, S. Dak.	Gurney Seed & Nursery Co.	570 (526)	1,000
WNBF	Binghamton, N. Y., corner Chenango and Lewis Sts.	Howitt-Wood Radio Co.	1,500 (200)	50
WNBH	New Bedford, Mass., 725 Pleasant St.	New Bedford Broadcasting Co.	1,310 (229)	100
WNBJ	Knoxville, Tenn.	Lonsdale Baptist Church.	1,310 (229)	50
WNBO	Washington, Pa., 319 West Beau St.	John B. Spriggs	1,200 (250)	100
WNBR	Memphis, Tenn., 883 Poplar Ave.	John Ulrich	1,430 (209.8)	500
WNBW	Carbondale, Pa., 21 Salem Ave.	Home Cut Glass & China Co.	1,200 (250)	5
WNBX	Springfield, Vt.	First Congregational Church.	1,200 (250)	10
WNBZ	Saranac Lake, N. Y., 70 Broadway	Smith and Maco	1,200 (232.6)	50
WNJ	Nowark, N. J., 76 Springfield Ave.	Radio Investment Co.	1,450 (206.9)	250
WNOX	Knoxville, Tenn., 114 Gay St.	Sterchi Bros.	560 (536)	1,000
WNRC	Greensboro, N. C., 724 Pearson St.	Wayne M. Nelson	1,440 (208.3)	250
WNYC	New York, N. Y.	City of New York	570 (526)	500
WOAI	San Antonio, Tex., Navarro and Oakland Sts.	Southern Equipment Co.	1,190 (252.1)	5,000
WOAN	Lawrenceburg, Tenn.	James D. Vaughan	600 (500)	500
WOAX	Trenton, N. J., 600 Ingham Ave.	Franklyn J. Wolff	1,280 (234.4)	500
WOBT	Union City, Tenn., 114 South First St.	Tittsworth's Radio & Music Shop.	1,310 (229)	15
WOBV	Charleston, W. Va.	Charleston Radio Broadcasting Co.	580 (517)	250
WOC	Davenport, Iowa, 1002 Brady St.	Palmer School of Chiropractic.	1,000 (300)	5,000
WOCL	Jamestown, N. Y.	A. E. Newton	1,210 (247.9)	25
WODA	Paterson, N. J., 115 Ellison St.	Richard E. O'Dea	1,250 (240)	1,000
WOI	Ames, Iowa	Iowa State College	560 (536)	3,500
WOKO	Mount Beacon, N. Y., 800 South St. ²⁷	Harold E. Smith	1,440 (208.3)	500
WOL	Washington, D. C., Colorado Bldg.	American Broadcasting Co.	1,310 (229)	110
WOMT	Manitowoc, Wis.	Milkadow Theater	1,210 (247.9)	000

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)
WOOD	Furnwood, Mich., Fulton St., Grand Rapids, Mich. ³⁸	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. ³⁸	L. Bamberger & Co.	710 (423)	5,000
WORD	Batavia, Ill. ¹⁷	People's Pulpit Assn.	1,480 (202.7)	5,000
WOS	Jefferson City, Mo.	Missouri State Marketing Bureau	630 (476)	1,000
WOV	Secaucus, N. J., 16 East Forty-second St., New York, N. Y. ²³	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
WPAW	Pawtucket, R. I.	Shartenberg & Robinson	1,210 (247.9)	100
WPCC	Chicago, Ill.	North Shore Congregational Church	570 (526)	500
WPCH	Hoboken, N. J., 1697 Broadway, New York, N. Y. ²³	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)	100
WPOR	Portsmouth, Va., 1001 Commerce Building, Norfolk, Va.	WTAR Radio Corp.	780 (385)	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	Seranton, Pa.	Seranton, Times	880 (341)	250
WQAO	Cliffside, N. J., 123 West Fifty-seventh St., New York, N. Y. ²³	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 Schuylkill 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. ⁴⁰	WREC, (Inc.)	600 (500)	1,000
WREN	Lawrence, Kans.	Jenny Wren Co.	1,220 (245.9)	1,000
WRHM	Fridley, Minn. ²²	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. ²³	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. ³⁸	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. ⁴¹	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
WSUI	Iowa City, Iowa	State University of Iowa.	580 (517)	100
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., ⁴² 799 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
WTBO	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) ⁴³	{ Travelers Broadcasting Service Corp.	{ 1,060 (283)	{ 25,000
WTMJ	Brookfield, Wis. ⁴⁴	Milwaukee Journal.	620 (484)	2,500
WTNT	Nashville, Tenn.	Tennessee Publishing Co.	1,490 (201.3)	1,000
WWAE	Hammond, Ind.	Hammond Calumet Broadcasting Co.	1,200 (250)	5,000
WWJ	Detroit, Mich.	Detroit News.	920 (326)	100
WWL	New Orleans, La.	Loyola University.	850 (353)	1,000
WWNC	Asheville, N. C.	Citizen Broadcasting Co. (Inc.).	570 (526)	5,000
WWRL	Woodside, N. Y., 4130 Fifty-Eighth St.	Long Island Broadcasting Corp.	1,500 (200)	100
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 kilo- cycles (meters in parenthe- ses)	Power (watts in an- tenna)	Call signal	Location of trans- mitter	Frequency in kilo- cycles (meters in parenthe- ses)	Power (watts in an- tenna)	Call signal	Location of trans- mitter
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.
	250				1,000	WOQ	Do.
	1,000				1,000	KFRC	San Francisco, Calif.
	500	KFDY	Brookings, S. Dak.	620 (484)	500	WJAY	Cleveland, Ohio.
	500	KTAB	Oakland, Calif.		1,000	WDAE	Tampa, Fla.
	500	KFYR	Bismarck, N. Dak.		1,000	WDBO	Orlando, Fla.
	500	KSD	St. Louis, Mo.		1,000	KGW	Portland, Oreg.
	1,000	KFUO	Clayton, Mo.		500	KFAD	Phoenix, Ariz.
560 (536)	250	WIOD	{ Miami Beach, Fla.	630 (476)	12,500	WTMJ	Brookfield, Wis.
	250				250		
	1,000	KOAC	Corvallis, Oreg.		1,500	WLBZ	Bangor, Me.
	1,000	WNOX	Knoxville, Tenn.		250		
	1,000	KLZ	Dupont, Colo.		1,500	WMAL	Washington, D.C.
	500	WLIT	Philadelphia, Pa.		250		
	500	WFI	Do.	1,000	WOS	{ Jefferson City, Mo.	
	500	KFDM	Beaumont, Tex.	500			
	3,500	WOI	Ames, Iowa.	500	KFRU	Columbia, Mo.	
	2,500	KFEQ	St. Joseph, Mo.	500	WGBF	Evansville, Ind.	
500	WMBF	Miami Beach, Fla.	500	WAU	Columbus, Ohio.		
570 (526)	750	WEAO	Columbus, Ohio.	640 (469)	5,000	KFI	Los Angeles, Calif.
	500	WMCA	Hoboken, N. J.	650 (462)	5,000	WSM	Nashville, Tenn.
	1,000	WWNC	Asheville, N. C.	660 (455)	325,000	WEAF	Bellmore, N. Y.
	250	KGKO	Wichita Falls, Tex.	500	WAAW	Omaha, Nebr.	
	1,500	WIBO	Chicago, Ill.	5,000	WMAQ	Addison, Ill.	
	2,000			5,000	KPO	San Francisco, Calif.	
	500	WNYC	New York, N. Y.	1,000	WPTF	Raleigh, N. C.	
	250	WSYR	Syracuse, N. Y.	1,000	NAA	Arlington, Va.	
	250	WMAC	Casnovia, N. Y.	325,000	WLW	Mason, Ohio.	
	500	KMTR	Los Angeles, Calif.	450,000			
500	WKBN	Youngstown, Ohio.	710 (423)	250	KFVD	Culver City, Calif.	
580 (517)	500	WPCC	Chicago, Ill.	720 (417)	5,000	WOR	Kearny, N. J.
	500	KUOM	Missoula, Mont.		25,000	WGN	Elgin, Ill.
	500	KXA	Seattle, Wash.	726 (413)	1,000	KZRM	Manila, P. I.
	1,000	WNAX	Yankton, S. Dak.	740 (405)	1,000	WSB	Atlanta, Ga.
	250	WSAZ	Huntington, W. Va.	1,000	KMMJ	Clay Center, Nebr.	
	1,000	KSAC	{ Manhattan, Kans.	750 (400)	5,000	WJR	Pontiac, Mich.
	250				1,000	KVI	Tacoma, Wash.
	250	WOBW	Charleston, W. Va.	1,000	WEW	St. Louis, Mo.	
	200	KGFX	Pierre, S. Dak.	325,000	WJZ	{ Bound Brook, N. J.	
	500	WSUI	Iowa City, Iowa.	430,000			
250	WTAG	Worcester, Mass.	770 (390)	5,000	KFAB	Lincoln, Nebr.	
1,000	WEMC	Berrien Springs, Mich.	780 (385)	10,000	WBBM	Glenview, Ill.	
500	WCAJ	Lincoln, Nebr.		1,000	WJBT	Memphis, Tenn.	
590 (509)	1,000	KHQ	Spokane, Wash.	790 (380)	250	WMC	
	500	WEEI	Boston, Mass.		500	WTAR	Norfolk, Va.
	1,000	WOW	Omaha, Nebr.	500	WPOR	Burbank, Calif.	
	500	KWYO	Laramie, Wyo.	500	KELW	Santa Monica, Calif.	
	250	WCAC	Mansfield, Conn.	500	KTM		
	250	WTIC	Hartford, Conn.	800 (375)	250	WBSO	Wellesley Hills, Mass.
	250	WCAO	Baltimore, Md.		50,000	WGY	South Schenectady, N. Y.
	1,000	WREC	{ Whitehaven, Tenn.	7,500	KGO	WBAP	Oakland, Calif.
	250						
	500	WOAN	Lawrenceburg, Tenn.	325,000	500	WFAA	Forth Worth, Tex.
350	WEBW	Beloit, Wis.	500				
1,000	KFSD	San Diego, Calif.	500				
250							

* See footnotes to this table on p. 127.

BROADCASTING STATIONS, BY FREQUENCIES—Continued

Frequency in kilo- cycles (meters in parenthe- ses)	Power (watts in an- tenna)	Call signal	Location of trans- mitter	Frequency in kilo- cycles (meters in parenthe- ses)	Power (watts in an- tenna)	Call signal	Location of trans- mitter
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 (364)	5,000	WHAS	Jeffersontown, Ky.		1,600	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	Kennonwood, La.	980 (305)	25,000	KDKA	Wilkinsburg, Pa.
	5,000	WWL	New Orleans, La.		50,000		
860 (349)	5,000	WABC	New York, N. Y.	990 (303)	15,000	WBZ	East Springfield, Mass.
	250	WBOQ	Hollywood, Calif.		500	WBZA	Boston, Mass.
870 (345)	25,000	WENR	Chicago, Ill.	1,000 (300)	1,000	KPLA	Los Angeles, Calif.
	5,000	WLS	Crete, Ill.		5,000	WHO	Des Moines, Iowa.
880 (341)	1,000	KFKA	Greeley, Colo.		5,000	WOC	Davenport, Iowa.
	2,500	WQAN	Scranton, Pa.	1,010 (297)	250	WQAO	Chickadee, N. J.
	250	WQRI	Do.		250	WHN	New York, N. Y.
	500	WCOC	Columbus, Miss.		250	WRNY	Coxsackville, N. J.
	500	KLN	Oakland, Calif.		700	KGGF	Picher, Okla.
890 (337)	500	KPOF	Denver, Colo.		500	WNAD	Norman, Okla.
	700	WKAQ	San Juan, P. R.		700	KQW	San Jose, Calif.
	1,400	WJAR	Providence, R. I.		250	WSIS	Sarasota, Fla.
	250			1,020 (294.1)	250	WRAX	Philadelphia, Pa.
	1,500	WMAZ	Macon, Ga.		15,000	KYW	Chicago, Ill.
	2,250				10,000	KFKX	Do.
	1,750	KUSD	(Vermillion, S. Dak.	1,040 (288.5)	500	KYWA	Do.
	500				1,000	WKEN	Grand Island, N. Y.
	1,500	WMMN	Fairmont, W. Va.		1,000	WKAR	East Lansing, Mich.
	250				10,000	KTHS	Hot Springs, Ark.
	1,000	KFNF	(Shenandoah, Iowa.		10,000	KRLD	Dallas, Tex.
	500			1,050 (285.7)	5,000	KNN	Hollywood, Calif.
	1,500	WILL	Urbana, Ill.		5,000	KFKB	Millford, Kans.
	250			1,060 (283)	10,000	WRAL	Glen Morris, Md.
	1,500	WGST	Atlanta, Ga.		1,000	WJAG	Norfolk, Nebr.
	250	KQJF	Little Rock, Ark.		500	KWJJ	Portland, Oregon.
900 (333)	750	WFBL	Syracuse, N. Y.		25,000	WTIC	Avon (Avon Mt.) Conn.
	750	WMAK	Martinsville, N. Y.	1,070 (280.4)	300	WAAT	Jersey City, N. J.
	1,000	WKY	Oklahoma City, Okla.		3,500	WTAM	Cleveland, Ohio.
	1,000	KHJ	Los Angeles, Calif.		1,000	WEAR	Do.
	500	KGBU	Ketchikan, Alaska.		50	WCAZ	Carthage, Ill.
	2,000	WLBL	Stevens Point, Wis.		100	WDZ	Tuscola, Ill.
	250			1,080 (277.8)	100	KJBS	San Francisco, Calif.
	2,500	KSEI	Pocatello, Idaho.		5,000	WBT	Charlotte, N. C.
	1,000	WFLA	Clearwater, Fla.		5,000	WCBD	Zion, Ill.
920 (326)	1,000	WSUN			5,000	WMRI	Addison, Ill.
	1,000	WWJ	Detroit, Mich.	1,090 (275.2)	5,000	KMOX	Kirkwood, Mo.
	500	WAAF	Chicago, Ill.		50	KFQA	
	1,000	KOMO	Seattle, Wash.	1,100 (272.7)	50	KGDM	Stockton, Calif.
	1,000	KPRC	Houston, Tex.		5,000	WLWL	Kearny, N. J.
930 (323)	1,500				5,000	WPG	Atlantic City, N. J.
	250	WDBJ	Roanoke, Va.	1,110 (270.3)	2,000	KSOO	Sioux Falls, S. Dak.
	50	WIBG	Elkins Park, Pa.		1,000	WRVA	Richmond, Va.
	1,000	KGBZ	York, Nebr.		109	KZKA	Manila, P. I.
	500			1,120 (267.9)	1,350	WDEL	Wilmington, Del.
	1,000	KMA	(Shenandoah, Iowa.		250	WCOA	Pensacola, Fla.
	500	KFWM	Okaland, Calif.		500	WTAW	College Station, Tex.
	500	KFWI	San Francisco, Calif.		500	KUT	Austin, Tex.
940 (319)	500	WBRC	Birmingham, Ala.		250	WISN	Milwaukee, Wis.
	750	WHA	Madison, Wis.		250	WHAD	Milwaukee, Wis.
	500	KGU	Honolulu, Hawaii.		500	KFSG	Los Angeles, Calif.
	500	WCSH	Portland, Me.		50	KRSC	Seattle, Wash.
	1,000	WFIW	Hopkinsville, Ky.		500	KMIC	Inglewood, Calif.
	1,000	KOIN	Portland, Oreg.	1,130 (265.5)	1,000	WOV	Secaucus, N. J.
	250	KFEL	Denver, Colo.		20,000	WJJD	Mooseheart, Ill.
950 (316)	250	KFXF	Do.		5,000	KSL	Salt Lake City, Utah.
	500	WHB	Kansas City, Mo.				
	12,500		Independence, Mo.				
	1,000	KMBC					

RADIO DIVISION, DEPARTMENT OF COMMERCE

BROADCASTING STATIONS, BY FREQUENCIES—Continued

Frequency in kilo- cycles (meters in parenthe- ses)	Power (watts in an- tenna)	Call signal	Location of trans- mitter	Frequency in kilo- cycles (meters in parenthe- ses)	Power (watts in an- tenna)	Call signal	Location of trans- mitter
1,360 (220.6)	300 1,250 500 250	WQBC WJKS WGES KGB	Utica, Miss. Gary, Ind. Chicago, Ill. San Diego, Calif.	1,420 (211.3)	1250 2100 50 10	KFYO KGHD Tupper Lake, WHDL	Abilene, Tex. Missoula, Mont. N. Y.
1,370 (219)	100 200 100 50 100 100 100 100 50 100 1						

BROADCASTING STATIONS, BY FREQUENCIES—Continued

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

¹ Day.
² Night.³ Normally.
⁴ 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 *italic* (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	(²)	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				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), ³ 500 (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), 3,370 (89), 5,925 (50.63), 5,940 (50.51)	O	(²)	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), ⁴ 102 (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	230 (1,304), 238 (1,260), 315 (950), 333 (900), 3,355 (89.4), 3,370 (89), 5,930 (50.59), 5,940 (50.51)	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	(²)	Department of Commerce, Bureau of Lighthouses.
Boise, Idaho	FA, FX	KCR	2,972 (100.94), 3,370 (89), 3,394 (88.4), 5,940 (50.51)	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	(²)	Department of Commerce, Bureau of Lighthouses.

* See footnotes to this table on p. 139.

Boston, Mass.....	FC	NAD	102 (2,939) ⁹	O		U. S. Navy.
Do.....	FA, FX	WSX	201 (1,493), 230 (1,304), 3,370 (89), 3,394 (88.4), 4,071 (73.7), 5,940 (50.51)	O		Department of Commerce, Bureau of Lighthouses.
Do.....	FX	WVO	212 (1,415), 223 (1,345), 4,445 (67.5), 8,890 (33.75)	O	Y	U. S. Army.
Bowman Field, Ky., (Louisville).....	FA, FX	WYW	200 (1,500)	O	Y	Do.
Brownsville, Tex.....	FC	NAY	104 (2,883) ¹⁰	O		U. S. Navy.
Brunswick Lightship, Ga.....	FC	WSJ	375 (800), 410 (730), 500 (600)	O	(?)	Department of Commerce, Bureau of Lighthouses.
Bryan, Ohio.....	FX, FA	KRL	230 (1,304), 238 (1,260), 3,365 (89.1), 3,370 (89), 5,940 (50.51), 5,945 (50.46)	O	N	Do.
Buffalo, N. Y.....	FC	NCB		O		U. S. Coast Guard.
Burgess Field, Pa., (Uniontown).....	FA, FX	WYI	200 (1,500)	O	Y	U. S. Army.
Burley, Idaho.....	FX	KNV	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.
Camp Devens, Mass. (Ayer).....	FX	WUA	212 (1,415)	O	Y	U. S. Army.
Camp Harry J. Jones (Douglas), Ariz.....	FX	WZM	275 (1,090), 4,090 (73.35), 8,180 (36.67)	O	Y	Do.
Camp John Hay, P. I.....	FX	WZQ	187 (1,605)	O	Y	Do.
Camp Knox, Ky.....	FX	WTY	275 (1,090)	O	Y	Do.
Camp Maria, Tex.....	FX	WUG	275 (1,090), 4,090 (73.35), 8,180 (36.67)	O	Y	Do.
Camp McClellan (Anniston), Ala.....	FX	WUR	275 (1,090), 445 (675)	O	Y	Do.
Camp Nichols, P. I. (Rizal).....	FA, FX	WYT	666 (450)	O	Y	Do.
Camp Stephen D. Little (Nogales), Ariz.....	FX	WZL	275 (1,090), 4,090 (73.35), 8,180 (36.67)	O	Y	Do.
Camp Stotsenburg, P. I.....	FX	WZN	187 (1,605)	O	Y	Do.
Cape Henry, Va. (section base 8).....	FC	NHG		O		U. S. Coast Guard.
Cape Lookout Shoals Lightship, N. C.....	FC	WRY	410 (730), 500 (600)	O	(?)	Department of Commerce, Bureau of Lighthouses.
Cape Mala, Canal Zone Radio.....	FC	NNT	112 (2,677), 500 (600)	PG	X	U. S. Navy.
Cape May, N. J.....	FC	NCY		O		U. S. Coast Guard.
Cape Sarichef Light Station, Alaska.....	FC	KCA	500 (600), 750 (400), 870 (345), 1,010 (297), 1,172 (256)	O	X	Department of Commerce, Bureau of Lighthouses.
Cape Spencer Light Station, Alaska.....	FC	KCC	375 (800), 500 (600)	O		Do.
Cape St. Elias Light Station, Alaska.....	FC	KCD		O		Do.
Cavite, P. I. (Los Banos).....		NLB		O		U. S. Navy.
Cavite, P. I.....		NPO	56 (5,354) ^{11 12 13} , 103 (2,776) ^{11 12 13} , 8,872 (33.81) ^{11 12 13} , 13,308 (22.54) ^{11 12 13}	O		Do.
Chanute Field (Rantoul), Ill.....	FA, FX	WYJ	200 (1,500)	O	Y	U. S. Army.
Charleston, S. C., radio.....	FC	NAO	122 (2,458), 1,450 (600)	PG	N	U. S. Navy.
Cheboygan Range, Mich.....	FX	WWG	3,410 (88)	O	X	Department of Commerce, Bureau of Lighthouses.
Chesapeake Lightship, Va.....	FC	WRS	375 (800), 410 (730), 500 (600)	O	(?)	Do.
Cheyenne, Wyo.....	FX	KSG	206 (1,456), 230 (1,304), 3,362.5 (89.2), 3,370 (89), 5,937.5 (50.52), 5,940 (50.51)	O	N	Do.
Chicago, Ill.....	FX	WVT	220 (1,364), 4,380 (68.49), 6,990 (42.92), 8,760 (34.25), 13,140 (22.83)	O	N	U. S. Army.
Circle, Alaska.....	FX	WXD	172 (1,745), 343 (875)	PR	Y	Do.
Clark Field (Camp Stotsenburg), P. I.....	FA, FX	WYS	666 (450)	O	Y	Do.
Cleveland, Ohio.....	FX	WVO	230 (1,304), 238 (1,260), 333 (900), 344 (870), 3,360 (89.3), 5,370 (89), 5,935 (50.54), 5,940 (50.51)	O	N	Department of Commerce, Bureau of Lighthouses.
Coco Solo, Canal Zone.....	FC	NBC		O		U. S. Navy.
Colon, Panama Radio.....	FC	NAX	132 (2,271), ^{8 13} 500 (600)	PG	N	Do.

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 1	(2)	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 1	(2)	Department of Commerce, Bureau of Lighthouses.
Craig, Alaska	FX	WKO	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	WWN	do.	O		Do.
Diamond Shoals Lightship, N. C.	FC	WRV	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), ¹⁸ 500 (600)	PG	N	U. S. Navy.
Elko, Nev.	FX	KOJ	210 (1,420), 230 (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), ¹⁸ 500 (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 1	(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 1	(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.	FA, 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 Kamehameha (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	WTX	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 Sam 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), 13,290 (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), 4,090 (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 Ledge, 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	(19)	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	(2)	Do.
Gloucester, Mass.	FC	NGL		O		U. S. Coast Guard.
Governors Island, N. Y.	FX	WVP	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), ¹ 21	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	(4)	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) ²²	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.
Hathox 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	(2)	Department of Commerce, Bureau of Lighthouses.
Heeia Point, Hawaii. (See 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) ²³	O		Do.
Honolulu, Hawaii (Pearl Harbor)	FX	NPM	26.1 (11,490), ²⁴ 106 (2,828) ²⁴	O		U. S. Army.
Hot Springs, Alaska	FX	WXX	550 (545)	PR	Y	Do.
Ikitarod, Alaska	FX	WXL	54 (5,555), 86 (3,490)	PR	Y	Do.
Iowa City, Iowa	FX	KIS	206 (1,456), 230 (1,304), 3,340 (89.8), 3,342.5 (89.7), 3,370 (89), 5,022.5 (50.66), 5,940 (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) ¹¹	O	(*)	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)	O	Y	U. S. Army.
Ketchikan, Alaska, radio	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)	PG-PR	N	Do.
Key West, Fla., radio	FC	NAR	106 (2,828), 113 (2,653), 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, Oreg.	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		U. S. Navy.
Langley Field (Hampton), Va.	FA, FX	WYC	200 (1,500), 275 (1,090)	O	Y	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	NTB		O		U. S. Navy.
Lordsburg, N. Mex.	FA, FX	WYZ	200 (1,500)	O	Y	U. S. Army.
Los Angeles, Calif.	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. (eleventh district reserve unit).	FX	NDV		O	X	U. S. Navy.
Los Angeles, Calif.	FX	WZH	4,030 (74.44), 8,060 (37.22)	O	Y	U. S. Army.
Love Field (Dallas), Tex.	FA, FX	WYO	200 (1,500)	O	Y	Do.
Luke Field (Pearl Harbor), Hawaii	FA, FX	WYQ	200 (1,500)	O	Y	Do.
Madison, Wis. (ninth district reserve unit).	FX	NDP		O	X	U. S. Navy.
Makapuu Point Light Station, (Oahu Island), Hawaii	FC	KCP	425 (705), 500 (600)	O		Department of Commerce, Bureau of Lighthouses.
Managua, Nicaragua	FX	NAZ		O		U. S. Navy.
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), 12,090 (24.81), 16,120 (18.610), 20,150 (14.888)	O	N	U. S. Army.
March Field, Calif.	FA, FX	WTC	200 (1,500), 220 (1,364)	O	Y	Do.
Marquette Light Station, Mich.	FX	WWM	3,410 (88)	O		Department of Commerce, Bureau of Lighthouses.
Maxwell Field, Ala.	FA, FX	WYK	200 (1,500)	O	Y	U. S. Army.
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	N	Department of Commerce, Bureau of Lighthouses.
Medford, Oreg.	FX	KCX	204 (1,470), 230 (1,304), 3,345 (89.6), 3,370 (89), 5,920 (50.68), 5,940 (50.51)	O		Do.
Middletown, Pa.	FA, FX	WYU	200 (1,500), 275 (1,090)	O	Y	U. S. Army.
Mitchel Field, N. Y. (Mineola, L. I.)	FA, FX	WYA	200 (1,500), 275 (1,090)	O	Y	Do.
Mobile, Ala.	FC	NCK		O		U. S. Coast Guard.

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	(27)	Department of Commerce, Bureau of Lighthouses.
Naval Academy, Md. (See Annapolis, Md.)	FC	NAK				U. S. Navy.
Naval land station (any or all)		NQO				Do.
Navassa Island Light Station, Windward Islands (Windward Passage).	FC	WSZ	375 (800), 410 (730), 500 (600)	O	X	Department of Commerce, Bureau of Lighthouses.
New Brunswick, N. J. (Hadley Field)	FA, FX	WWU	250 (1,305), 238 (1,260), 333 (900), 338 (890), 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) ^{28 29}	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) ³⁰	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), ^{31 32} 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), 230 (1,304), 3,357.5 (83.1), 3,370 (89), 5,932.5 (50.56), 5,940 (50.51).	O	N	Do.
Nulato, Alaska	FX	WXZ	93.7 (3,260), 167 (1,800), 471 (637)	PR	Y	U. S. Army.
Oakland, Calif.	FX	KCV	210 (1,429), 230 (1,304), 3,355 (89.4), 3,370 (89), 5,930 (50.59), 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.
Ofu, Samoa	FX	NGX		O	(23)	U. S. Navy.
Oklahoma City, Okla.	FX	KQK	3,350 (89.6), 3,370 (89), 5,940 (50.51), 5,960 (50.34)	O	(26)	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), 3,370 (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		Do.
Pensacola, Fla.	FX, FA	NAS	113 (2,653) ³⁴ , 500 (600)	O	N	Do.
Pensacola, Fla. (eighth district reserve unit).	FX	NDD		O	X	Do.
Petersburg, Alaska.	FX	WTQ	266 (1,125)	PR	Y	U. S. Army.
Philadelphia, Pa.	FC	NAI	104 (2,885) ³⁵	O		U. S. Navy.
Pleasant Valley, Nev.	FX	KSQ	280 (1,304), 3,365 (89.1), 3,370 (89), 5,940 (50.51), 5,945 (50.46).	O	X	Department of Commerce, Bureau of Lighthouses.
Poe Reef Lighthouse, Mich.	FX	WRJ	3,410 (88)	O	X	Do.
Point Barrow, Alaska.	FX	WXB	447 (670), 4,365 (68.7), 8,730 (34.36)	PR	Y	U. S. Army.
Pollock Rip Slue Lightship, Mass.	FC	WPQ	375 (800), 410 (730), 500 (600)	O ¹	(³²)	Department of Commerce, Bureau of Lighthouses.
Port Angeles, Wash. (section base 13).	FC	NIG		O		U. S. Coast Guard.
Port au Prince, Haiti, radio.	FC	NSC	58 (5,169), 132 (2,271), 500 (600)	PG	N	U. S. Navy.
Portland Lightship, Me.	FC	WPB	410 (730), 500 (600)	O ¹	(²)	Department of Commerce, Bureau of Lighthouses.
Portland, Oreg.	FX	KCY	210 (1,429), 230 (1,304), 3,345 (89.6), 3,370 (89), 5,920 (50.68), 5,940 (50.51).	O		Do.
Portsmouth, N. H.	FC	NAC		O		U. S. Navy.
Port Townsend, Wash. (section base 10).	FC	NAG		O		U. S. Coast Guard.
Puerto Obaldia, Panama, radio.	FC	NRK	123 (2,342), 500 (600)	PG	X	U. S. Navy.
Puget Sound, Wash. (Bremerton).	FC	NCH		O		Do.
Puget Sound, Wash. (Keyport).	FC	NPC	102 (2,039) ³⁷ ³⁸	O		Do.
Quantico, Va.	FX, FA	NFV		O		Do.
Quantico, Va. (marine school).	FX	NZY		O		Do.
Quarry Heights, Canal Zone.	FX	WVL	4,365 (68.7), 8,730 (34.36), 13,095 (22.91), 17,460 (17.182)	O	N	U. S. Army.
Redding, Calif.	FX	KCW	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.
Relief Lightship No. 76.	FC	KCO	375 (800), 410 (730), 500 (600)	O ¹	X	Do.
Relief Lightship No. 78.	FC	WRF	do.	O ¹	X	Do.
Relief Lightship No. 80.	FC	WRZ	do.	O ¹	X	Do.
Relief Lightship No. 85.	FC	WPT	do.	O ¹	X	Do.
Relief Lightship No. 90.	FC	WPW	do.	O ¹	X	Do.
Relief Lightship No. 92.	FC	KCL	do.	O ¹	X	Do.
Relief Lightship No. 109.	FC	WSN	do.	O ¹	X	Do.
Reno, Nev.	FX	KLK	210 (1,429), 230 (1,304), 3,370 (89), 3,380 (88.8), 5,940 (50.51), 5,955 (50.36).	O	N	Do.
Richmond, Va.	FX	WNR	3,340 (89.3), 3,370 (89), 5,025 (50.65), 5,940 (50.51)	O	(³)	Do.
Rockaway Beach, N. Y.	FC	NCG		O		U. S. Coast Guard.
Rock Springs, Wyo.	FX	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 (50.48).	O	N	Department of Commerce, Bureau of Lighthouses.
Rockwell Field, Calif. (Coronado).	FA, FX	WYH	200 (1,500), 220 (1,364)	O	Y	U. S. Army.
Ruby, Alaska.	FX	WXU	760 (400)	PR	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
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	123 (2,342), 500 (600)	PG	(39, 40)	U. S. Navy.
St. Croix, Virgin Islands.....	FX	NNI		O	(39)	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	(39)	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), 4 102 (2,939) 4 41	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), 42 43 44 66 (4,543), 44 108 (2,776), 42 43 44 45 8,590 (34.90) 43 44	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 (34.38), 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 1	(46)	Department of Commerce, Bureau of Lighthouses.
San Juan, P. R., radio (Cayey).....	FX-FC	NAU	48 (6,246), 47 113 (2,653), 48 500 (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), 49 500 (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	250 (1,504), 238 (1,261), 3,345 (89.6), 3,570 (89), 5,920 (50.68), 5,940 (50.51).	O		Department of Commerce, Bureau of Lighthouses.
Do.	FC	NGT		O		U. S. Coast Guard.
Do.	FX	WVD	4,085 (73.45), 8,170 (36.72), 12,255 (24.48), 16,340 (18.36), 20,400 (14.70).	O	N	U. S. Army.
Seattle, Wash. (thirteenth district reserve unit).	FX	NDQ		O	X	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 (69.61), 8,620 (34.80).	PR	Y	Do.
South Pass Lightship, La.	FC	WSW	500 (600).	O ¹	(?)	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).	O	(?)	Do.
Squaw Harbor, Alaska, radio (Unga Island).	FC-FX	WZF	500 (600), 4,365 (68.74), 8,730 (34.36).	PG-PR	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		U. S. Coast Guard.
Strevell, Idaho.	FX	KME	3,347.5 (89.6), 3,570 (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 ¹	(?)	Do.
Tacotna, Alaska.	FX	WXV	536 (560), 558 (540).	PR	Y	U. S. Army.
Tau, Samoa.	FX	NCM	500 (600).	O	(33)	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 ¹	(?)	Department of Commerce, Bureau of Lighthouses.
Unalaska, Alaska.	FC	NXG		O		U. S. Coast Guard.
Valdez, Alaska, radio.	FC, FX	WXJ	500 (600), 666 (450).	PG, PR	Y	U. S. Army.
Vancouver Barracks, Wash.	FX	WTI	220 (1,364), 4,030 (74.44), 8,060 (37.22).	O	Y	Do.
Washington, D. C., (Arlington, Va.).	FX	NAA	68 (4,409), ⁵⁰ 113 (2,653), ⁵¹ 32 ⁵⁰ 690 (434.5), 4,015 (74.72) ⁵¹ 53 ⁵¹ 8,030 (37.34), ⁵¹ 53 ⁵¹ 12,045 (24.9), ⁵¹ 53 ⁵¹ 16,060 (18.67). ⁵⁰ 51	O		U. S. Navy.
Washington, D. C. (Navy Yard).	FX	NAL	690 (434.5) ⁵³	O		Do.
Washington, D. C. (Annapolis, Md.).	FX	NSS	17.8 (16,840) ⁵¹	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	52 (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.

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 (89.0), 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	(?)	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. (Petit 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	WSR	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	WWA	.....	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 1300 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.....	NADZ	U. S. Navy.
Abbot.....	NEZS	U. S. Navy.	Bainbridge.....	NUQL	Do.
Accacia.....	WWD C	Department of Commerce, Bureau of Light-houses.	Balch.....	NEDP	Do.
Active.....	NIXS	U. S. Coast Guard.	Ballard.....	NIGN	Do.
Acushnet.....	NEZQ	Do.	Baltimore.....	NAFD	Do.
Agassiz.....	NIVL	Do.	Bancroft.....	NAJQ	Do.
Albany.....	NABT	U. S. Navy.	Barker.....	NUJK	Do.
Albatross II.....	WTDA	Department of Commerce, Bureau of Fisheries.	Barnard.....	WYDG	U. S. Army.
Aldebaran.....	WYCU	U. S. Army.	Barnes, Robert L.....	NAZZ	U. S. Navy.
Alden.....	NULK	U. S. Navy.	Barnett.....	NUFN	Do.
Alert.....	NIVT	U. S. Coast Guard.	Barney.....	NIQT	Do.
Algonquin.....	NEXD	Do.	Barry.....	NUQP	Do.
Algorna.....	NEVP	U. S. Navy.	Basilan.....	KZAF	Bureau of Commerce and Industry (Philippine Insular Government).
Allegheny.....	NACZ	Do.	Bayspring.....	NISZ	U. S. Navy.
Allen.....	NEGN	Do.	Beale.....	NAFK	U. S. Coast Guard.
Altair.....	NURJ	Do.	Beaver.....	NEQQ	U. S. Navy.
Alton.....	NAMV	Do.	Belknap.....	NEZZ	Do.
A. Mackenzie.....	WYCN	U. S. Army.	Bell.....	NATG	Do.
Amaranth.....	WWDG	Department of Commerce, Bureau of Light-houses.	Benham.....	NEDQ	Do.
Ammen.....	NABV	U. S. Coast Guard.	Bernadou.....	NESS	Do.
Ammunition Lighter No. 8.....	NEMP	U. S. Navy.	Biddle.....	NIQX	Do.
Anemone.....	WWCD	Department of Commerce, Bureau of Light-houses.	Billingsley.....	NUPQ	Do.
Annapolis.....	NABX	State of Penna. ¹	Birmingham.....	NAFM	Do.
Antares.....	NATB	U. S. Navy.	Bittern.....	NIJR	Do.
Anthony.....	NEVS	Do.	Black Hawk.....	NAJD	Do.
Antistam.....	NTL	U. S. Coast Guard.	Blakeley.....	NIQZ	Do.
Apache.....	NACB	Do.	B. M. Harrod.....	WYCI	U. S. Army.
Apo.....	KZDB	Bureau of Commerce and Industry (Philippine Insular Government.)	Bobolink.....	NIJJ	U. S. Navy.
Aramis.....	NARP	U. S. Navy.	Boggs.....	NAMT	Do.
Arapho.....	NIDS	Do.	Bonham.....	NIXQ	U. S. Coast Guard.
Arcata.....	NADD	U. S. Coast Guard.	Boreas.....	NALM	U. S. Navy.
Arctic.....	NAFR	U. S. Navy.	Borle.....	NULL	Do.
Argonne.....	NISX	Do.	Boutwell.....	NIXX	U. S. Coast Guard.
Arizona.....	NACV	Do.	Boxer.....	NIQM	U. S. Navy. ¹
Arkansas.....	NACT	Do.	Branch.....	NEML	Do.
Aroostook.....	NENR	Do.	Brant.....	NAFF	Do.
Asheville.....	NELV	Do.	Brant.....	WTDB	Department of Commerce, Bureau of Fisheries.
Augusta.....	NIDF	Do.	Brazos.....	NIFK	U. S. Navy.
Aulick.....	NERG	Do.	Breck.....	NULZ	Do.
Ausburne, Charles.....	NUPR	Do.	Breckenridge.....	NERZ	Do.
Avocet.....	NADP	Do.	Breese.....	NESM	Do.
Aylwin.....	NEDN	Do.	Briarcliff.....	NEZB	U. S. Navy.
Azalea.....	WWCE	Department of Commerce, Bureau of Light-houses.	Bridge.....	NESF	Do.
Babbitt.....	NEPX	U. S. Navy.	Bridgeport.....	NAPV	Do.
Bache.....	NEND	Department of Commerce, Coast and Geodetic Survey.	Brooks.....	NEZX	Do.
Badger.....	NEPT	U. S. Navy.	Broome.....	NEPF	Do.
Badger, George E.....	NUJG	Do.	Bruce.....	NUPS	Do.
Bagaduce.....	NAZP	Do.	Buchanan.....	NEQS	Do.
Bagley.....	NIQS	Do.	Bulmer.....	NUPN	Do.
			Bureau of Light-houses (general call for all stations).	WWLH	Department of Commerce, Bureau of Light-houses.
			Burns.....	NAFS	U. S. Navy. ³
			Burnes, John Francis.....	NIGQ	Do.
			Burrows.....	NAFP	U. S. Coast Guard.
			Bush.....	NETT	U. S. Navy.
			Bushnell.....	NEFS	Do.
			Bustamente.....	KZBH	Bureau of Commerce and Industry (Philippine Insular Government).
			Cahokia.....	NITV	U. S. Coast Guard.

* See footnote to this table on p. 149.

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

Ship	Call signal	Owner	Ship	Call signal	Owner
Cahoone.....	NIVJ	U. S. Coast Guard.	C. G. 164.....	NECM	U. S. Coast Guard.
Caldwell.....△	NIDQ	U. S. Navy.	C. G. 165.....	NEFM	Do.
California.....△	NAFT	Do.	C. G. 166.....	NABN	Do.
Calumet.....	NIZL	U. S. Coast Guard.	C. G. 167.....	NAJG	Do.
Camden.....	NAPR	U. S. Navy.	C. G. 168.....	NALL	Do.
Cambrai.....△	WUAA	U. S. Army.	C. G. 169.....	NANL	Do.
Canopus.....	NIRX	U. S. Navy.	C. G. 170.....	NAQQ	Do.
Capella.....△	NAZK	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 For-	WYAM	Do.	C. G. 174.....	NAXQ	Do.
nance.			C. G. 175.....	NAZV	Do.
Carrabassett.....△	NEVQ	U. S. Coast Guard.	C. G. 176.....	NEBL	Do.
Cartigan.....	NIVK	Do.	C. G. 177.....	NEBX	Do.
Case.....	NUNK	U. S. Navy.	C. G. 178.....	NECF	Do.
Cassin.....△	NEDR	U. S. Coast Guard.	C. G. 179.....	NABQ	Do.
C. G. 100.....	NAGN	Do.	C. G. 180.....	NAJM	Do.
C. G. 101.....	NAKT	Do.	C. G. 181.....	NALN	Do.
C. G. 102.....	NAMP	Do.	C. G. 182.....	NANM	Do.
C. G. 103.....	NAPP	Do.	C. G. 183.....	NAQR	Do.
C. G. 104.....	NARM	Do.	C. G. 184.....	NASK	Do.
C. G. 105.....	NABF	Do.	C. G. 185.....	NATP	Do.
C. G. 106.....	NAGP	Do.	C. G. 186.....	NAVR	Do.
C. G. 107.....	NAKZ	Do.	C. G. 187.....	NAXR	Do.
C. G. 108.....	NAMQ	Do.	C. G. 188.....	NEBM	Do.
C. G. 109.....	NAPQ	Do.	C. G. 189.....	NEBZ	Do.
C. G. 110.....	NARN	Do.	C. G. 190.....	NECG	Do.
C. G. 111.....	NABG	Do.	C. G. 191.....	NABR	Do.
C. G. 112.....	NAGQ	Do.	C. G. 192.....	NAJN	Do.
C. G. 113.....	NALB	Do.	C. G. 193.....	NALQ	Do.
C. G. 115.....	NAPX	Do.	C. G. 194.....	NANN	Do.
C. G. 116.....	NARQ	Do.	C. G. 195.....	NAQS	Do.
C. G. 117.....	NATC	Do.	C. G. 196.....	NASL	Do.
C. G. 118.....	NAVJ	Do.	C. G. 197.....	NATQ	Do.
C. G. 119.....	NAXD	Do.	C. G. 198.....	NAXV	Do.
C. G. 120.....	NAZI	Do.	C. G. 199.....	NEBB	Do.
C. G. 121.....	NEBG	Do.	C. G. 200.....	NEBN	Do.
C. G. 122.....	NEBS	Do.	C. G. 201.....	NEFQ	Do.
C. G. 123.....	NABJ	Do.	C. G. 202.....	NACC	Do.
C. G. 124.....	NAGR	Do.	C. G. 203.....	NAKB	Do.
C. G. 125.....	NALD	Do.	C. G. 204.....	NALV	Do.
C. G. 127.....	NAPZ	Do.	C. G. 205.....	NANP	Do.
C. G. 128.....	NART	Do.	C. G. 206.....	NAQT	Do.
C. G. 129.....	NATD	Do.	C. G. 207.....	NASN	Do.
C. G. 130.....	NAVK	Do.	C. G. 208.....	NATR	Do.
C. G. 131.....	NAXF	Do.	C. G. 209.....	NAXX	Do.
C. G. 132.....	NAZN	Do.	C. G. 210.....	NACF	Do.
C. G. 133.....	NABK	Do.	C. G. 211.....	NAKC	Do.
C. G. 134.....	NAGT	Do.	C. G. 212.....	NALX	Do.
C. G. 135.....	NALF	Do.	C. G. 213.....	NANR	Do.
C. G. 136.....	NANG	Do.	C. G. 214.....	NAQX	Do.
C. G. 137.....	NARV	Do.	C. G. 215.....	NASP	Do.
C. G. 138.....	NATF	Do.	C. G. 216.....	NAVY	Do.
C. G. 139.....	NAVL	Do.	C. G. 217.....	NAXZ	Do.
C. G. 140.....	NAXG	Do.	C. G. 218.....	NEBC	Do.
C. G. 141.....	NAZR	Do.	C. G. 219.....	NEBP	Do.
C. G. 142.....	NABL	Do.	C. G. 220.....	NACQ	Do.
C. G. 143.....	NAQZ	Do.	C. G. 221.....	NAKT	Do.
C. G. 144.....	NALG	Do.	C. G. 222.....	NAMC	Do.
C. G. 145.....	NANJ	Do.	C. G. 223.....	NANS	Do.
C. G. 146.....	NAQB	Do.	C. G. 224.....	NAQZ	Do.
C. G. 147.....	NARX	Do.	C. G. 225.....	NASR	Do.
C. G. 148.....	NATK	Do.	C. G. 226.....	NATX	Do.
C. G. 149.....	NAVN	Do.	C. G. 227.....	NATZ	Do.
C. G. 150.....	NAXL	Do.	C. G. 228.....	NAZB	Do.
C. G. 151.....	NABM	Do.	C. G. 229.....	NEBD	Do.
C. G. 152.....	NAJF	Do.	C. G. 230.....	NEBQ	Do.
C. G. 153.....	NALJ	Do.	C. G. 231.....	NECB	Do.
C. G. 154.....	NANK	Do.	C. G. 232.....	NECJ	Do.
C. G. 155.....	NAQP	Do.	C. G. 233.....	NEON	Do.
C. G. 156.....	NASB	Do.	C. G. 234.....	NEFJ	Do.
C. G. 157.....	NATL	Do.	C. G. 235.....	NAKG	Do.
C. G. 158.....	NAVP	Do.	C. G. 236.....	NAMF	Do.
C. G. 159.....	NAXP	Do.	C. G. 237.....	NAPB	Do.
C. G. 160.....	NAZT	Do.	C. G. 238.....	NARB	Do.
C. G. 161.....	NEBK	Do.	C. G. 239.....	NASS	Do.
C. G. 162.....	NEBT	Do.	C. G. 240.....	NAVY	Do.
C. G. 163.....	NEOC	Do.	C. G. 241.....	NAZD	Do.
			C. G. 242.....	NACK	Do.
			C. G. 243.....	NAKJ	Do.
			C. G. 244.....		
			C. G. 245.....		
			C. G. 246.....		
			C. G. 247.....		
			C. G. 248.....		

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.			
Eagle 6.....	NEJJ	Do.	Faunce.....	NIVV	U. S. Coast Guard.
Eagle 7.....	NEJK	Do.	Favorite.....	KDNY	U. S. Navy.
Eagle 8.....	NEJL	Do.	Fern.....	WWDN	Department of Commerce, Bureau of Light-houses.
Eagle 9.....	NEJM	Do.			
Eagle 10.....	NEJN	Do.	F. H. Hilliard.....	WYCM	U. S. Army.
Eagle 11.....	NEJP	Do.	Finch.....	NAJP	U. S. Navy.
Eagle 12.....	NEJQ	Do.	Florence.....	NIZC	U. S. Coast Guard.
Eagle 13.....	NEJR	Do.	Florida.....	Δ NAMB	U. S. Navy.
Eagle 14.....	NEJS	Do.	Flusser.....	Δ NUNF	Do.
Eagle 15.....	NEJT	Do.	Foote.....	Δ NIRQ	Do.
Eagle 18.....	NEJZ	Do.	Ford, John D.....	Δ NUQJ	Do.
Eagle 19.....	NEKB	Do.	Fort Chartres.....	WYDE	U. S. Army.
Eagle 22.....	NEKF	Do.	Fort Gage.....	WYDD	Do.
Eagle 23.....	NEKG	Do.	Forward.....	NIDG	U. S. Coast Guard.
Eagle 24.....	NEKJ	Do.	Fox.....	Δ NIRQ	U. S. Navy.
Eagle 26.....	NEXF	Do.	Frederick.....	NEGV	Do.
Eagle 27.....	NEXG	Do.	Frederick Lee.....	NIVZ	U. S. Coast Guard.
Eagle 28.....	NEXM	Do.	Fulton.....	NEDD	U. S. Navy.
Eagle 29.....	NEXN	Do.	Gallatin.....	NIQG	U. S. Coast Guard.
Eagle 32.....	NEZJ	Do.	Galveston.....	NANF	U. S. Navy.
Eagle 33.....	NIBB	Do.	Gamble.....	Δ NEZR	Do.
Eagle 34.....	NIBD	Do.	Gamma.....	WYCE	U. S. Army.
Eagle 35.....	NIBG	Do.	Gannet.....	NIJX	U. S. Navy.
Eagle 36.....	NIBK	Do.	General Absalom Baird.....	WYBA	U. S. Army.
Eagle 37.....	NIBM	Do.	General Alava.....	NAMG	U. S. Navy.
Eagle 38.....	NIBN	Do.	General Edward C. C. Ord.....	WYAF	U. S. Army.
Eagle 39.....	NIBC	Do.	General George H. Weeks.....	WYAI	Do.
Eagle 40.....	NIBF	Do.	General Greene.....	NIXL	U. S. Coast Guard.
Eagle 41.....	NIBJ	Do.	General G. W. Getty.....	WYAK	U. S. Army.
Eagle 42.....	NIBL	Do.	General J. Franklin Bell.....	WYBB	Do.
Eagle 43.....	NIBP	Do.	General John M. Schofield.....	WYAB	Do.
Eagle 44.....	NIBQ	Do.	General Mißlin.....	WYAT	Do.
Eagle 45.....	NIBR	Do.	General Richard Arnold.....	WYAY	Do.
Eagle 46.....	NIBS	Do.	General R. N. Batchelder.....	WYAR	Do.
Eagle 47.....	NIBT	Do.	General Robert Anderson.....	WYAH	Do.
Eagle 48.....	NIBV	Do.	General Royal T. Frank.....	WYAA	Do.
Eagle 49.....	NIBX	Do.	General William M. Graham.....	WYBD	Do.
Eagle 50.....	NIBZ	Do.	Genesee.....	NEKD	U. S. Navy.
Eagle 51.....	NICB	Do.	Gillis.....	Δ NERR	Do.
Eagle 52.....	NICC	Do.	Gilmer.....	Δ NERB	Do.
Eagle 53.....	NICD	Do.	Goff.....	Δ NUQF	Do.
Eagle 54.....	NICF	Do.	Goldsborough.....	Δ NAPT	Do.
Eagle 55.....	NICG	Do.	Gold Star.....	NASJ	Do.
Eagle 56.....	NICJ	Do.	Gouverneur.....	WYDH	Do.
Eagle 57.....	NICK	Do.	Grant.....	Δ WUAG	Do.
Eagle 58.....	NICL	Do.	Grebe.....	NIKX	U. S. Navy.
Eagle 59.....	NICM	Do.	Greene.....	Δ NIGM	Do.
Eagle 60.....	NICN	Do.	Greer.....	Δ NERT	Do.
Ed. J. Howard.....	WYDF	U. S. Army.	Gregory.....	Δ NAJR	Do.
Edsall.....	Δ NUPM	U. S. Navy.	Gresham.....	Δ NEZC	U. S. Coast Guard.
Edwards.....	Δ NIGL	Do.	Gridley.....	Δ NEMX	U. S. Navy.
Edwards, John D.....	Δ NUFC	Do.	Griffith.....	WYCZ	U. S. Army.
Eider.....	NIKR	Do.	Guam.....	NECS	U. S. Navy.
	WTDD	Department of Commerce, Bureau of Fisheries.	Guide.....	Δ NLN	Department of Commerce, Coast and Geodetic Survey.
Elcano.....	NAKS	U. S. Navy.			
Elliott.....	Δ NERV	Do.	Gwin.....	Δ NAGX	Do.
Ellis.....	Δ NIFD	Do.	H-2.....	NIFF	Do.
Elsie.....	NICM	Department of Commerce, Coast and Geodetic Survey.	H-3.....	NERF	Do.
Ericsson.....	NEFD	U. S. Coast Guard.	H-4.....	NEQM	Do.
Essex.....	NEPN	U. S. Navy.	H-5.....	NETG	Do.
Evans.....	Δ NEMS	Do.			
Ewing.....	NIXM	U. S. Coast Guard.			
Explorer.....	NAVM	Department of Commerce, Coast and Geodetic Survey.			
Fairfax.....	Δ NIJC	U. S. Navy.			
Falcon.....	NEKN	Do.			
Fanning.....	NALS	U. S. Coast Guard.			
Farenholt.....	Δ NEMQ	U. S. Navy.			
Farquhar.....	Δ NANS	Do.			
Farragut.....	Δ 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.....△	NEPZ	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.....	WYCC	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.....	NIGD	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.	Kaweah.....	NUGK	U. S. Navy.
Herndon.....△	NENJ	Do.	Kennedy.....△	NAZM	Do.
Heron.....	NENL	Do.	Kennison.....△	NEQX	Do.
Hibiscus.....△	WWCA	Department of Commerce, Bureau of Light-houses.	Kenowis.....	WUAK	U. S. Army.
Hogan.....△	NEXT	U. S. Navy.	Keosanqua.....	NEXC	U. S. Navy.
Holland.....	NIRM	Do.	Kewaydin.....	NAXN	Do.
Hopewell.....△	NEXX	Do.	Kickapoo.....	NTX	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.....	WYCB	U. S. Army.	Lansdale.....△	NERL	Do.
International Ice Patrol. ³	NIDK	U. S. Coast Guard.	Lapwing.....	NALC	Do.
Iota.....	WYCF	U. S. Army.	Laramie.....	NUGL	Do.
Isabel.....	NASG	U. S. Navy.	Lardner.....△	NUPF	Do.
Isherwood.....△	NUNV	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.....	NEJX	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.....	NATM	Do.
			Mendota.....Δ	NAGK	U. S. Coast Guard.
			Mercy.....	NEKM	U. S. Navy.
			Meredith.....Δ	NETS	Do.
Luzon.....Δ	NEGJ	U. S. Navy.	Merritt.....	WUAH	U. S. Army.
Lydonia.....Δ	NAJT	Coast and Geodetic Survey.	Mervine.....Δ	NUMJ	U. S. Navy.
			Meyer.....Δ	NUJR	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.	Mississippi.....Δ	WYCT	War Department, Mississippi River Commission.
Mahan.....Δ	NEQK	U. S. Navy.	Mississippi.....	NEKT	U. S. Navy.
Mahoning.....	NOCG	U. S. Coast Guard.	Missoula.....	NEKR	U. S. Navy.
Mahopac.....	NETD	U. S. Navy.	Mitchell.....	NIZR	Department of Commerce, Coast and Geodetic Survey.
Major Albert G. Jenkins.	WYBV	U. S. Army.			
Major Evan Thomas.	WYAO	Do.	Modoc.....Δ	NIVD	U. S. Coast Guard.
Major William P. Pence, Jr.	WYBW	Do.	Mohawk.....	NUFB	U. S. Navy.
Mallard.....	NIKB	U. S. Navy.	Mojave.....	NIXB	U. S. Coast Guard.
Mangrove.....Δ	WWCU	Department of Commerce, Bureau of Light-houses.	Monaghan.....	NEKP	Do.
			Monocacy.....	NETN	U. S. Navy.
Manhattan.....	NEKZ	U. S. Coast Guard.	Montcalm.....	NEQF	Do.
Manley.....Δ	NIDP	U. S. Navy.	Montgomery.....Δ	NAXJ	Do.
Manning.....Δ	NEZG	U. S. Coast Guard.	Montgomery.....	NITT	U. S. Coast Guard.
Manzanita.....Δ	WWDR	Department of Commerce, Bureau of Light-houses.	Moody.....Δ	NULT	U. S. Navy.
			Morgan-Lewis.....	WYCR	U. S. Army.
			Morris.....	NIVB	U. S. Coast Guard.
Maple.....	WWCN	Do.	Morris.....Δ	NITS	U. S. Navy.
Marblehead.....Δ	NIRR	U. S. Navy.	Mugford.....Δ	NEXR	Do.
Marcus.....Δ	NUMG	Do.	Mullany.....Δ	NUML	Do.
Marigold.....Δ	WWDH	Department of Commerce, Bureau of Light-houses.	Murray.....Δ	NAXK	Do.
			N-1.....	NEDS	Do.
Marindin.....	NIZP	Coast and Geodetic Survey.	N-2.....	NAJJ	Do.
			N-3.....	NAKK	Do.
Marinduque.....	NIGV	Do.	Nansemond.....	NOGQ	U. S. Coast Guard.
Marion.....	NITB	U. S. Coast Guard.	Nantucket.....	NAMS	U. S. Navy.
Maryland.....Δ	NARC	U. S. Navy.	Napa.....	NEVC	Do.
Mascoutin.....	NIVP	U. S. Coast Guard.	Narragansett.....	NEKL	Do.
Mason.....Δ	NAGG	U. S. Navy.	Natoma.....	NUGG	Department of Commerce, Coast and Geodetic Survey.
Mattole.....	NUMG	Do.			
Maumee.....	NEQL	Do.	Naugatuck.....	NITG	U. S. Coast Guard.
Maury.....Δ	NEPG	Do.	Navajo.....	NEMR	U. S. Navy.
Mayflower.....	WWCP	Department of Commerce, Bureau of Light-houses.	Naval Ship stations (any or all).	NERK	Do.
			Navigator.....	NECD	Do.
Mayrant.....	NEGX	U. S. Navy.	Neches.....	NIFP	Do.
McCall.....	NEJV	U. S. Coast Guard.	Nemaha.....	NITK	U. S. Coast Guard.
McCalla.....Δ	NIGC	U. S. Navy.	Neptune.....	NEPM	U. S. Navy.
McCawley.....	NULS	Do.	Nereus.....	NEQP	Do.
McCook.....Δ	NIGB	Do.	Nevada.....Δ	NADK	Do.
McCormick.....Δ	NUPZ	Do.	New Mexico.....Δ	NEVN	Do.
McDermut.....Δ	NIGG	Do.	New Orleans.....	NENP	Do.
McDougall.....Δ	NEFP	U. S. Coast Guard.	Newport.....	NENQ	Do.
McFarland.....Δ	NETB	U. S. Navy.	New York.....Δ	NADT	Do.
McKean.....Δ	NEMT	Do.	Niagara.....	NABC	Do.
McKee.....Δ	NACQ	Do.	Nicholson.....Δ	NEFR	Do.
McLaughan.....Δ	NIGK	Do.	Nitro.....	NELL	Do.
McLane.....	NIVF	U. S. Coast Guard.	Noa.....Δ	NUKF	Do.
Meade.....Δ	NEBJ	U. S. Navy.	Nokomis.....	NAMM	Do.
Medusa.....	NEMC	Do.	Northampton.....	NEFX	Do.
			North Dakota.....	NEPL	Do.
			Northland.....Δ	NISC	U. S. Coast Guard.
			O-1.....	NEXJ	U. S. Navy.

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

Ship	Call signal	Owner	Ship	Call signal	Owner
0-2.....	NETJ	U. S. Navy.	Pinola.....	NEVL	U. S. Navy.
0-3.....	NAMR	Do.	Pioneer.....Δ	NIJL	Department of Commerce, Coast and Geodetic Survey.
0-4.....	NAMX	Do.			
0-6.....	NANB	Do.	Piscataqua.....	NAQC	U. S. Navy.
0-7.....	NANC	Do.	Pittsburgh.....Δ	NETC	Do.
0-8.....	NAND	Do.	Polillo.....	KZCH	Bureau of Commerce and Industry (Philippine Insular Government.)
0-9.....	NAGB	Do.			
0-10.....	NAXT	Do.	Pontchartrain.....Δ	NABP	U. S. Coast Guard.
0-11.....	NETK	Do.	Pope.....Δ	NUQB	U. S. Navy.
0-12.....	NETL	Do.	Porpoise.....	NAQM	Do.
0-13.....	NEZN	Do.	Porter.....	NESQ	U. S. Coast Guard.
0-14.....	NEVD	Do.	Preble.....Δ	NUNG	U. S. Navy.
0-15.....	NAXS	Do.	President.....	NURL	Post Office Department.
0-16.....	NASM	Do.			
Oahu.....	NEFN	Do.	Preston.....Δ	NUNJ	U. S. Navy.
O'Bannon.....Δ	NEXS	Do.	Preston, William B.....Δ	NUMQ	Do.
O'Brien.....Δ	NEFV	Do.			
Ogden.....	NIZS	Department of Commerce, Coast and Geodetic Survey.	Privateer.....	NUDF	Do.
			Procyon.....	NURF	Do.
Oglala.....	NEPJ	U. S. Navy.	Prometheus.....	NETP	Do.
Oklahoma.....Δ	NADN	Do.	Proteus.....	NERC	Do.
Old Constellation.....	NEPR	Do.	Pruitt.....Δ	NUPV	Do.
Olympia.....	NANT	Do.	Pueblo.....	NAJS	Do.
Omaha.....Δ	NISL	Do.	Pulaski.....	NIXV	U. S. Coast Guard.
Omega.....	WYCV	U. S. Army.	Putnam.....Δ	NUPG	U. S. Navy.
Ontario.....	NIDX	U. S. Navy.	Pyro.....	NELK	Do.
Orchid.....Δ	WWCO	Department of Commerce, Bureau of Light-houses.	Quail.....	NIKQ	Do.
			R-1.....	NILC	Do.
Oriole.....	NEVM	U. S. Navy.	R-2.....	NILD	Do.
Orion.....	NERN	Do.	R-3.....	NILF	Do.
Ortolan.....	NIKC	Do.	R-4.....	NILG	Do.
Osborne.....Δ	NUQC	Do.	R-5.....	NILJ	Do.
Osprey.....	NIZF	U. S. Coast Guard.	R-6.....	NILK	Do.
Ossipee.....	NEZD	Do.	R-7.....	NILL	Do.
Overton.....Δ	NUJN	U. S. Navy	R-8.....	NILM	Do.
Owl.....	NACS	Do.	R-9.....	NILN	Do.
Paducah.....	NESC	Do.	R-10.....	NILP	Do.
Palmer.....	NECV	Do.	R-11.....	NILQ	Do.
Palos.....	NETR	Do.	R-12.....	NILR	Do.
Pamlico.....	NEZK	U. S. Coast Guard.	R-13.....	NILS	Do.
Pampanga.....	NEVF	U. S. Navy.	R-14.....	NILT	Do.
Panay.....	NEDB	Do.	R-15.....	NASV	Do.
Parker.....Δ	NEFZ	Do.	R-16.....	NASX	Do.
Parrott.....Δ	NUPD	Do.	R-17.....	NAFX	Do.
Partridge.....	NIJG	Do.	R-18.....	NEGC	Do.
Patapsco.....	NESL	Do.	R-19.....	NEGK	Do.
Pathfinder.....	NENC	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.....	NESG	Do.	R-25.....	NIMC	Do.
Paulding.....	NESP	Do.	R-26.....	NIMD	Do.
Paulding, James K.....Δ	NUJM	U. S. Navy.	R-27.....	NIMF	Do.
Pawtucket.....	NIQB	Do.	Radford.....Δ	NEXB	Do.
Peacock.....	KDKY	Do.	Rail.....	NAQJ	Do.
Peary.....Δ	NUQD	Do.	Raleigh.....Δ	NIRT	Do.
Pecos.....	NIFQ	Do.	Ramapo.....	NUGP	Do.
Pelican.....	NEFK	Do.	Ramsay.....Δ	NIFC	Do.
Penacock.....	NEMM	Do.	Ranger.....	NUDG	Department of Commerce, Coast and Geodetic Survey.
Penguin.....	NECT	Do.			
Pennsylvania.....Δ	NADX	Do.	Rapidan.....	NUGQ	U. S. Navy.
Penobscot.....	NESB	Do.	Rappahannock.....	NEGT	Do.
Pensacola.....Δ	NISJ	Do.	Raritan.....	NIZG	U. S. Coast Guard.
Pequot.....Δ	NUPJ	U. S. Coast Guard.	Rathburne.....Δ	NACR	U. S. Navy.
Percival.....	NIFJ	U. S. Navy.	Redwing.....Δ	NIKG	U. S. Coast Guard.
Perkins.....	NETM	Do.	Regulus.....	NASQ	U. S. Navy.
Perry.....Δ	NUQS	Do.	Reid.....Δ	NUNK	Do.
Perry.....	NUCG	U. S. Coast Guard.	Reliance.....	NIXF	U. S. Coast Guard.
Petrel.....	NUVG	Do.	Relief.....	NEPQ	U. S. Navy.
Philip.....Δ	NEDG	U. S. Navy.	Reno.....Δ	NAMD	Do.
Pigeon.....	NIKF	Do.	Reno.....	WYAN	U. S. Army.
Pillsbury.....Δ	NUQG	Do.	Renshaw.....Δ	NEVZ	U. S. Navy.

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

Ship	Call signal	Owner	Ship	Call signal	Owner
Richmond.....△	NISQ	U. S. Navy.	San Francisco.....	NIJZ	U. S. Navy.
Renshaw.....	NURG	Do.	San Pablo.....	WYBC	U. S. Army.
Ringgold.....△	NALT	Do.	San Pedro.....	WYAU	Do.
Rizal.....△	NEVV	Do.	Sapelo.....	NUGS	U. S. Navy.
Robin.....	NANQ	Do.	Saratoga.....△	NELB	Do.
Robinson.....△	NAJX	Do.	Satterlee.....△	NAGC	Do.
Rochester.....△	NIKD	Do.	Saturn.....	WYCD	U. S. Army.
Rodgers.....△	NITZ	Do.	Sauke.....	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.....△	NERX	U. S. Navy.	Schenck.....	NEMG	U. S. Navy.
Rose.....	WWDS	Department of Commerce, Bureau of Light- houses.	Schley.....△	NELJ	Do.
Rowen.....△	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.....△	NAPG	U. S. Navy.
S-4.....	NIML	Do.	Selfridge.....△	NUJZ	Do.
S-6.....	NIMN	Do.	Seminole.....△	NEZL	U. S. Coast Guard.
S-7.....	NIMP	Do.	Semmes.....△	NAFZ	U. S. Navy.
S-8.....	NIMQ	Do.	Seneca.....△	NEXP	U. S. Coast Guard.
S-9.....	NIMR	Do.	Sepulga.....	NUGT	U. S. Navy.
S-10.....	NIMS	Do.	Sequola.....△	WWDV	Department of Commerce, Bureau of Light- houses.
S-11.....	NIMT	Do.	Sharkey.....△	NULV	U. S. Navy.
S-12.....	NIMV	Do.	Shaw.....△	NEMB	U. S. Coast Guard.
S-13.....	NIMX	Do.	Shawnee.....△	NIZJ	Do.
S-14.....	NIMZ	Do.	Shirk.....△	NUJV	U. S. Navy.
S-15.....	NINB	Do.	Shubrick.....	NIXD	Do.
S-16.....	NINC	Do.	Sicard.....△	NUPL	Do.
S-17.....	NIND	Do.	Sigourney.....△	NAJB	Do.
S-18.....	NINF	Do.	Simpson.....△	NUPX	Do.
S-19.....	NING	Do.	Sinclair.....△	NULR	Do.
S-20.....	NINJ	Do.	Sirius.....	NUPP	Do.
S-21.....	NINK	Do.	Sloat.....△	NUMD	Do.
S-22.....	NINL	Do.	Slocum.....	WYAV	U. S. Army.
S-23.....	NINM	Do.	Smith, Robert.....△	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.....△	NIZX	Do.
S-28.....	NINS	Do.	Somme.....△	WUAB	U. S. Army.
S-29.....	NINT	Do.	Sonoma.....	NIGT	U. S. Navy.
S-30.....	NINV	Do.	Sotoyomo.....	NECZ	Do.
S-31.....	NINX	Do.	Southard.....△	NAJK	Do.
S-32.....	NINZ	Do.	Speedwell.....△	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.....△	NEVT	U. S. Navy.
S-36.....	NIPF	Do.	Spruce.....△	WWCJ	Department of Commerce, Bureau of Light- houses.
S-37.....	NIPG	Do.	Stansbury.....△	NEXV	U. S. Navy.
S-38.....	NIPJ	Do.	Sterrett.....	NIDZ	Do.
S-39.....	NIPK	Do.	Stevens.....△	NAPK	Do.
S-40.....	NIPL	Do.	Stewart.....△	NUNN	Do.
S-41.....	NIPM	Do.	St. Mihiel.....△	WUAD	U. S. Army.
S-42.....	NIPN	Do.	Stockton.....△	NAKL	U. S. Navy.
S-43.....	NIPP	Do.	Stoddert.....△	NALZ	Do.
S-44.....	NIPQ	Do.	Stribling.....△	NAVS	Do.
S-45.....	NIPR	Do.	Stringham.....△	NACP	Do.
S-46.....	NIPS	Do.	Sturtevant.....△	NUJP	Do.
S-47.....	NIPT	Do.	S. C. 57.....	NODF	Do.
S-48.....	NIPV	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.....△	NEVJ	Do.			
Sagamore.....	SANX	Do.			
St. Louis.....	NIFG	Do.			
Salem.....	NIJD	Do.			
Salinas.....	NUGR	Do.			
Salt Lake City.....△	NISK	Do.			
Sampson.....△	NELC	Do.			
Sanderling.....	NIJS	Do.			
Sandpiper.....	NIKK	Do.			
Sands.....△	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 No. 3.	NIFX	U. S. Navy.
S. C. 185.....	NOMD	Do.	Torpedo Test Barge No. 4.	NIFZ	Do.
S. C. 192.....	NOMN	Do.	Toucey.....△	NULX	Do.
S. C. 210.....	NONN	Do.	Tracy.....△	NUJL	Do.
S. C. 223.....	NOPT	Do.	Travis.....△	NUTJ	U. S. Coast Guard.
S. C. 224.....	NOPG	Do.	Trenton.....△	NISR	U. S. Navy.
S. C. 229.....	NOPN	Do.	Trevor.....△	NUMP	Do.
S. C. 231.....	NOPT	Do.	Trinity.....△	NUGX	Do.
S. C. 271.....	NORS	Do.	Trippe.....△	NIQC	U. S. Coast Guard.
S. C. 306.....	NOTR	Do.	Triton.....△	NIQD	U. S. Navy.
S. C. 326.....	NOVL	Do.	Truxtun.....△	NUQK	Do.
S. C. 328.....	NOVN	Do.	Tucker.....△	NEMF	U. S. Coast Guard.
S. C. 330.....	NOVQ	Do.	Tulip.....△	WWCH	Department of Commerce, Bureau of Light-houses.
S. C. 353.....	NOXS	Do.	Tulsa.....	NIST	U. S. Navy.
S. C. 412.....	NOZJ	Do.	Turkey.....	NIJF	Do.
S. C. 431.....	NOPR	Do.	Turner.....△	NERQ	Do.
S. C. 432.....	NIQL	Do.	Tuscambia.....	WYCY	U. S. Army.
S. C. 433.....	NOPT	Do.	Tuscarora.....	NEZF	U. S. Coast Guard.
S. C. 437.....	NOQQ	Do.	Tuscarora.....	NEZF	U. S. Coast Guard.
S. C. 440.....	NIQV	Do.	Tutulla.....	NEKC	U. S. Navy.
Sumac.....△	WWDL	Department of Commerce, Bureau of Light-houses.	Twiggs.....△	NEPV	Do.
Sumner.....△	NUQX	U. S. Navy.	Umpqua.....	NATS	Do.
Sunflower.....	WWCZ	Department of Commerce, Bureau of Light-houses.	Unadilla.....	NEFT	Do.
Sunnadin.....	NEVB	U. S. Navy.	Unalga.....	NIDL	U. S. Coast Guard
Surveyor.....	NEVG	Department of Commerce, Coast and Geodetic Survey.	Undaunted.....	NERD	U. S. Navy.
Swallow.....	NEFL	U. S. Navy.	Upshur.....△	NERS	Do.
Swan.....	NIJP	Do.	Upshur, Abel P. △	NUJD	Do.
Swasey.....△	NIQP	Do.	Utah.....	NIQJ	Do.
T-1.....	NILB	Do.	V-1.....	NIQJ	Do.
T-2.....	NABB	Do.	V-2.....	NICR	Do.
T-3.....	NABZ	Do.	V-3.....	NICS	Do.
Tadousac.....	NAZQ	Do.	V-4.....	NICT	Do.
Tahoe.....△	NADB	U. S. Coast Guard.	V-5.....	NICV	Do.
Talbot.....△	NAPL	U. S. Navy.	V-6.....	NICX	Do.
Talbot, J. Fred.....△	NIGR	Do.	V-7.....	NICZ	Do.
Tallapoosa.....△	NIDB	U. S. Coast Guard.	V-8.....	NIDD	Do.
Tamaroa.....	NIVR	Do.	V-9.....	NIDJ	Do.
Tampa.....△	NITC	Do.	Vega.....△	NAXM	Do.
Tanager.....	NABS	U. S. Navy.	Vestal.....	NENK	Do.
Tarbell.....△	NEZP	Do.	Vigilant.....	NIXK	U. S. Coast Guard.
Tatnuck.....	NETQ	Do.	Villalobos.....	NIQP	U. S. Navy.
Tattnall.....△	NEPS	Do.	Vireo.....	NIKL	Do.
Taylor.....△	NALR	Do.	Virginia I.....	NIZB	U. S. Coast Guard.
Teal.....	NAPN	Do.	Wadsworth.....△	NEMK	U. S. Navy.
Teal.....	WTDE	Department of Commerce, Bureau of Fisheries.	Wainwright.....△	NEMN	U. S. Coast Guard
Tecumseh.....	WYDC	U. S. Army.	Walke.....△	NITQ	U. S. Navy.
Tennessee.....△	NIDN	U. S. Navy.	Walker.....△	NESX	Do.
Tern.....	NIKT	Do.	Wandank.....	NARF	Do.
Perry.....	NIKZ	U. S. Coast Guard.	Wando.....	NEGQ	Do.
Texas.....△	NADV	U. S. Navy.	Warbler.....	KDKR	Do. ⁸
Thatcher.....△	NESV	Do.	Ward.....△	NAGS	Do.
Thomas.....△	NIFN	Do.	Ward, Aaron.....△	NELX	Do.
Thomas.....△	WUAI	U. S. Army.	Warrington.....△	NIRG	Do.
Thompson.....△	NAZC	U. S. Navy.	Wasmuth.....△	NUKC	Do.
Thompson, Sara.....△	NEMD	Do.	Waters.....△	NATT	Do.
Thompson, Smith.....△	NUJJ	Do.	Welles.....△	NAJZ	Do.
Thornton.....	NIZZ	Do.	West Memphis.....	WYQJ	U. S. Army.
Thrush.....△	NIKS	Do.	West Virginia.....△	NEDJ	U. S. Navy.
Tiger.....	NIXP	U. S. Coast Guard.	Wheeling.....	NIRP	Do.
Tillamook.....	NOCB	U. S. Navy.	Whipple.....△	NUNL	Do.
Tillman.....△	NEQT	Do.	Whippoorwill.....	NIJQ	Do.
Tingard.....	NISB	U. S. Coast Guard.	Whitney.....	NIRL	Do.
Tingey.....	NISG	U. S. Navy.	Wickes.....	NATJ	Do.
Tippecanoe.....	NUGV	Do.	Widgeon.....	NAQF	U. S. Navy.
Topeka.....	NENF	Do.	Wildcat.....	NIVM	Department of Commerce, Coast and Geodetic Survey.
Torpedo Test Barge No. 1.	NIFR	Do.	Wilkes.....△	NEKV	U. S. Coast Guard.
Torpedo Test Barge No. 2.	NIFS	Do.	Willetts Point.....	WYCX	U. S. Army.
			Willetts.....	KDKS	U. S. Coast Guard. ¹
			Williams.....△	NENT	U. S. Navy.
			Williamson.....△	NUNS	Do.
			Willmott.....	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.	Zellin..... ^Δ	NUMB	Do.

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

GOVERNMENT LAND, RADIOBEACON,¹ 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. 178.....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, Oreg...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	Willet.....b	NACV	Arizona.....b
KDKY	Peacock.....b	NACX	C. G. 286.....b
KDN	Rock Springs, Wyo.....fx	NACZ	Allegheny.....b
KGD	Salt Lake City, Utah.....fx	NAD	Boston, Mass.....fc
KIS	Iowa City, Iowa.....fx	NADB	Tahoe.....b
KJF	Omaha, Nebr.....fx	NADD	C. G. 254.....b
KKJ	Fort Worth, Tex.....fx	NADG	Arcata.....b
KLK	Reno, Nev.....fx	NADJ	Crowninshield.....b
KME	Strevell, Idaho.....fx	NADK	C. G. 293.....b
KNV	Burley, Idaho.....fx	NADL	C. G. 301.....b
KOC	Sacramento, Calif. (Mather Field).....fx	NADM	Nevada.....b
KOJ	Elko, Nev.....fx	NADN	Kimberly.....b
KQK	Oklahoma City, Okla.....fx	NADP	C. G. 281.....b
KRC	Kansas City, Mo.....fx	NADQ	Oklahoma.....b
KRL	Bryan, Ohio.....fx, fa	NADR	Avocet.....b
KSG	Cheyenne, Wyo.....fx	NADS	C. G. 290.....b
KSQ	Pleasant Valley, Nev.....fx	NADT	C. G. 265.....b
KVB	Pacific Coast (portable).....fx	NADV	C. G. 277.....b
KVD	do.....fx	NADX	New York.....b
KVE	do.....fx	NADZ	Texas.....b
KVH	do.....fx	NAE	Pennsylvania.....b
KVJ	do.....fx	NAF	Bailey.....b
KVK	do.....fx	NAFC	North Truro, Mass.....rg
KVM	North Platte, Nebr.....fx	NAFD	Newport, R. I.....fc
KZAF	Basilan.....b	NAFF	Dickerson.....b
KZAQ	Corregidor.....b	NAFG	Baltimore.....b
KZAR	Mindoro.....b	NAFJ	Brant.....b
KZBH	Bustamante.....b	NAFK	C. G. 298.....b
KZDB	Apo.....b	NAFL	Champlain.....b
KDNY	Favorite.....b	NAFM	Beale.....b
NAA	Washington, D. C. (Arlington, Va.)...fx	NAFN	Leary.....b
NAB	Cape Elizabeth, Me.....rg	NAFP	Birmingham.....b
NABB	T-2.....b	NAFQ	C. G. 302.....b
NABC	Niagara.....b	NAFR	Burrows.....b
NABF	C. G. 105.....b	NAFS	Dreadnaught.....b
NABG	C. G. 111.....b	NAFT	Arctic.....b
NABJ	C. G. 123.....b	NAFV	Burns.....b
NABK	C. G. 133.....b	NAFX	California.....b
		NAFZ	Chester.....b
		NAG	R-17.....b
		NAGB	Semmes.....b
			Post Townsend, Wash. (section base 10).....fc
			O-9.....b

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

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
NAGG	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	O-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	O-4.....b
NAOS	Ward.....b	NAN	Cape Lookout, N. C.....rg
NAGT	C. G. 134.....b	NANB	O-6.....b
NAOV	Cleveland.....b	NANC	O-7.....b
NAGX	Gwinn.....b	NAND	O-8.....b
NAGZ	C. G. 143.....b	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.....fc	NANK	C. G. 154.....b
NAJB	Sigourney.....b	NANL	C. G. 169.....b
NAJD	Black Hawk.....b	NANM	C. G. 182.....b
NAJT	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	Chattanooga.....b
NAJP	Finch.....b	NANX	Sagamore.....b
NAJQ	Bancroft.....b	NANZ	Farquhar.....b
NAJR	Gregory.....b	NAO	Charleston, S. C., radio.....fc
NAJS	Pueblo.....b	NAP	St. Augustine, Fla., radio.....fc
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.....b	NAPF	C. G. 274.....b
NAK	Annapolis, Md. (Naval Academy).....fc	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.....b
NAKS	Elcano.....b	NAQ	Jupiter, Fla.....fc, rg
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	NAQE	Widgeon.....b
NAL	Washington, D. C. (Navy Yard).....fx, c	NAQG	C. G. 294.....b
NALB	C. G. 113.....b	NAQJ	Rail.....b
NALC	Lapwing.....b	NAQK	C. G. 209.....b
NALD	C. G. 125.....b	NAQL	Savannah.....b
NALF	C. G. 135.....b	NAQM	Porpoise.....b
NALG	C. G. 144.....b	NAQN	Paul Hamilton.....b
NALJ	C. G. 153.....b	NAQP	C. G. 155.....b
NALK	Lykons.....b	NAQQ	C. G. 170.....b
NALL	C. G. 168.....b	NAQR	C. G. 183.....b
NALM	Boreas.....b	NAQS	C. G. 196.....b
NALN	C. G. 181.....b	NAQT	C. G. 207.....b
NALP	Kingfisher.....b	NAQV	Hannibal.....b
NALQ	C. G. 194.....b	NAQX	C. G. 215.....b
NALR	Taylor.....b	NAQZ	C. G. 226.....b
NALS	Fanning.....b	NAR	Key West, Fla., radio.....fc
NALT	Ringgold.....b	NARB	C. G. 242.....b
NALV	C. G. 205.....b	NARO	Maryland.....b
NALX	C. G. 213.....b	NARD	C. G. 250.....b
NALZ	Stoddert.....b	NARF	Wandank.....b
NAM	Norfolk, Va., radio.....fc	NARG	Chemung.....b
NAMB	Florida.....b	NARJ	C. G. 258.....b
NAMC	C. G. 224.....b	NARK	C. G. 269.....b
NAMD	Reno.....b	NARI	C. G. 273.....b
NAMF	C. G. 240.....b	NARM	C. G. 104.....b
NAMG	General Alava.....b	NARN	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	NAXX	C. G. 210..... b
NARQ	C. G. 116..... b	NAXZ	C. G. 219..... b
NARR	William Jones..... b	NAY	Brownsville, Tex..... fc
NART	C. G. 128..... b	NAZ	Managua, Nicaragua..... fx, c
NARV	C. G. 137..... b	NAZB	C. G. 231..... b
NARX	C. G. 147..... b	NAZC	Thompson..... b
NARZ	R-20..... b	NAZD	C. G. 246..... b
NAS	Pensacola, Fla..... fa, fx, rg (ab)	NAZF	C. G. 253..... b
NASB	C. G. 156..... b	NAZG	C. G. 262..... b
NASC	Helena..... b	NAZJ	C. G. 120..... b
NASD	Henley..... b	NAZK	Capella..... b
NASF	C. G. 171..... b	NAZL	Lamberton..... b
NASG	Isabel..... b	NAZM	Kennedy..... b
NASJ	Gold Star..... b	NAZN	C. G. 132..... b
NASK	C. G. 184..... b	NAZP	Bagaduce..... b
NASL	C. G. 197..... b	NAZQ	Tadousac..... b
NASM	O-16..... b	NAZR	C. G. 141..... b
NASN	C. G. 208..... b	NAZS	Kalmia..... b
NASP	C. G. 216..... b	NAZT	C. G. 160..... b
NASQ	Regulus..... b	NAZV	C. G. 175..... b
NASR	C. G. 227..... b	NAZZ	Robert L. Barnes..... b
NASS	C. G. 243..... b	NBA	Balboa, Canal Zone Radio (Darien), fc, fx
NAST	C. G. 259..... b	NBB	St. Thomas, Virgin Islands..... fc
NASV	R-15..... b	NBC	Coco Solo, Canal Zone..... fc
NASX	R-16..... b	NBD	Bar Harbor, Me., radio..... fc
NASZ	C. G. 270..... b	NBE	Thatcher Island, Mass..... rg
NAT	New Orleans, La..... fc	NBF	Fourth Cliff, Mass..... rg
NATB	Antares..... b	NBH	Staten Island, N. Y. (section base 2).
NATC	C. G. 117..... b	NBI	Fort Lauderdale, Fla. (section base 6).
NATD	C. G. 129..... b	NBK	Newport, R. I. (torpedo station)..... fx
NATF	C. G. 138..... b	NBL	New London, Conn..... fc
NATG	Bell..... b	NBM	Amagansett, N. Y..... rg
NATJ	Wickes..... b	NBN	Bethany Beach, Del..... rg
NATK	C. G. 148..... b	NBO	St. John, Virgin Islands..... fx
NATL	C. G. 157..... b	NBS	Surfside, Mass. (Nantucket Island)..... rg
NATM	Mendota..... b	NBX	South Pass, La..... rg
NATN	C. G. 172..... b	NCB	Buffalo, N. Y..... fc
NATP	C. G. 185..... b	NCD	San Diego, Calif. (naval headquarters)..... fc
NATQ	C. G. 198..... b	NCG	Rockaway Beach, N. Y..... fc
NATR	C. G. 209..... b	NCH	Puget Sound, Wash. (Bremerton)..... fc
NATS	Umpqua..... b	NCK	Mobile, Ala..... fc
NATT	Waters..... b	NCM	Tau, Samoa..... fx
NATX	C. G. 228..... b	NCP	Nahant, Mass..... fc
NATZ	C. G. 229..... b	NCQ	San Juan, P. R. (control)..... fc, fx
NAU	San Juan, P. R., radio (Cayey)..... fc	NCY	Cape May, N. J..... fc
NAV	Parris Island, S. C., radio..... fc	NCZ	Chesapeake Bay RC group, master station, Virginia Beach..... rg
NAVB	C. G. 244..... b	NDA	Wellesley, Mass. (first district reserve unit)..... fx
NAVC	C. G. 251..... b	NDB	New York, N. Y. (third district reserve unit)..... fx
NAVD	Wilmette..... b	NDC	Wilmington, Del. (fourth district reserve unit)..... fx
NAVF	C. G. 260..... b	NDD	Pensacola, Fla. (eighth district reserve unit)..... fx
NAVG	C. G. 271..... b	NDE	Norfolk, Va. (fifth district reserve unit)..... fx
NAVJ	C. G. 118..... b	NDJ	Atlanta, Ga. (sixth district reserve unit)..... fx
NAVK	C. G. 130..... b	NDK	Baltimore, Md. (fifth district reserve unit)..... fx
NAVL	C. G. 139..... b	NDL	Winter Park, Fla. (seventh district reserve unit)..... fx
NAVM	Explorer..... b	NDO	Oakland, Calif. (twelfth district reserve unit)..... fx
NAVN	C. G. 149..... b	NDP	Madison, Wis. (ninth district reserve unit)..... fx
NAVP	C. G. 158..... b	NDQ	Seattle, Wash. (thirteenth district reserve unit)..... fx
NAVQ	C. G. 173..... b	NDS	Winnetka, Ill. (ninth district reserve unit)..... fx
NAVR	C. G. 186..... b	NDT	San Diego, Calif. (eleventh district reserve unit)..... fx
NAVS	Stribling..... b	NDU	Jacksonville, Fla. (seventh district reserve unit)..... fx
NAVT	C. G. 218..... b	NDV	Los Angeles, Calif. (eleventh district reserve unit)..... fx
NAVX	Idaho..... b	NDW	Cape Hatteras RC group, master station, Cape Hatteras, N. C..... rg
NAVZ	C. G. 252..... b	NDX	Poyners Hill, N. C..... rg
NAW	Guantanamo Bay, Cuba..... fc, fx		
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		
NAXG	C. G. 140..... b		
NAXJ	Montgomery..... b		
NAXK	Murray..... b		
NAXL	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. ....b
NDZ	New Orleans, La. (eighth district re- serve unit) ....fx	NEGM	Winslow .....b
NEBB	C. G. 200. ....b	NEGN	Allen .....b
NEBC	C. G. 220. ....b	NEGP	Conyngham .....b
NEBD	C. G. 232. ....b	NEGQ	Wando .....b
NEBF	C. G. 263. ....b	NEGR	Davis .....b
NEBG	C. G. 121. ....b	NEGS	L-9 .....b
NEBJ	Meade .....b	NAGT	Rappahannock .....b
NEBK	C. G. 161. ....b	NEGV	Frederick .....b
NEBL	C. G. 176. ....b	NEGX	Mayrant .....b
NEBM	C. G. 189. ....b	NEGZ	Mayflower .....b
NEBN	C. G. 201. ....b	NEJB	Eagle 1. ....b
NEBP	C. G. 221. ....b	NEJC	Eagle 2. ....b
NEBQ	C. G. 233. ....b	NEJD	Eagle 3. ....b
NEBR	C. G. 264. ....b	NEJF	Eagle 4. ....b
NEBS	C. G. 122. ....b	NEJG	Eagle 5. ....b
NEBT	C. G. 162. ....b	NEJJ	Eagle 6. ....b
NEBV	H-9. ....b	NEJK	Eagle 7. ....b
NEBX	C. G. 177. ....b	NEJL	Eagle 8. ....b
NEBZ	C. G. 190. ....b	NEJM	Eagle 9. ....b
NECB	C. G. 234. ....b	NEJN	Eagle 10. ....b
NECC	C. G. 163. ....b	NEJP	Eagle 11. ....b
NECD	Navigator .....b	NEJQ	Eagle 12. ....b
NECF	C. G. 178. ....b	NEJR	Eagle 13. ....b
NECG	C. G. 191. ....b	NEJS	Eagle 14. ....b
NECJ	C. G. 235. ....b	NEJT	Eagle 15. ....b
NECL	C. G. 280. ....b	NEJV	McCall .....b
NECM	C. G. 164. ....b	NEJX	Melville .....b
NECN	C. G. 236. ....b	NEJZ	Eagle 18. ....b
NECP	C. G. 283. ....b	NEKB	Eagle 19. ....b
NECQ	C. G. 300. ....b	NEKC	Tutuila .....b
NECR	Colorado .....b	NEKD	Genessee .....b
NECS	Guam .....b	NEKF	Eagle 22. ....b
NECT	Penguin .....b	NEKG	Eagle 23. ....b
NECV	Paltner .....b	NEKJ	Eagle 24. ....b
NECX	Kittery .....b	NEKK	L-3 .....b
NECZ	Sotoyomo .....b	NEKL	Narragansett .....b
NEDB	Panay .....b	NEKM	Mercy .....b
NEDC	Yantic .....b	NEKN	Falcon .....b
NEDD	Fulton .....b	NEKP	Monaghan .....b
NEDG	Philip .....b	NEKQ	Champlin .....b
NEDJ	West Virginia .....b	NEKR	Missoula .....b
NEDK	Jarvis .....b	NEKS	Challenge .....b
NEDL	Jenkins .....b	NEKT	Mississippi .....b
NEDM	Jouett .....b	NEKV	Wilkes .....b
NEDN	Aylwin .....b	NEKX	Rowan .....b
NEDP	Balch .....b	NEKZ	Manhattan .....b
NEDQ	Benham .....b	NEL	Lakehurst, N. J. ....fe, fx, rg (ab)
NEDR	Cassin .....b	NELB	Saratoga .....b
NEDS	N-1 .....b	NELC	Sampson .....b
NEDT	Cummings .....b	NELD	K-2 .....b
NEDV	Cushing .....b	NELF	K-3 .....b
NEDX	Downes .....b	NELG	Dorsey .....b
NEDZ	Craneship No. 1 .....b	NELJ	Schley .....b
NEFB	Duncan .....b	NELK	Pyro .....b
NEFC	H-6 .....b	NELL	Nitro .....b
NEFD	Ericsson .....b	NELM	K-4 .....b
NEFF	L-11 .....b	NELN	H-8 .....b
NEFG	Dallas .....b	NELP	K-5 .....b
NEFJ	C. G. 237. ....b	NELQ	K-6 .....b
NEFK	Pelican .....b	NELR	Contocook .....b
NEFL	Swallow .....b	NELS	K-7 .....b
NEFM	C. G. 165. ....b	NELT	K-8 .....b
NEFN	Oahu .....b	NELV	Ashville .....b
NEFP	McDougal .....b	NELX	Aaron Ward .....b
NEFQ	C. G. 202. ....b	NELZ	L-2 .....b
NEFR	Nicholson .....b	NEMB	Shaw .....b
NEFS	Bushnell .....b	NEMC	Medusa .....b
NEFT	Unadilla .....b	NEMD	Sara Thompson .....b
NEFV	O'Brien .....b	NEMF	Tucker .....b
NEFX	Northampton .....b	NEMG	Shenk .....b
NEFZ	Parker .....b	NEMJ	Herbert .....b
NEG	Oakland, Calif. (Government Island) fe	NEMK	Wadsworth .....b
NEGB	Corwin .....b	NEML	Branch .....b
NEGC	R-18 .....b	NEMM	Penacook .....b
NEGD	Luce .....b	NEMN	Wainwright .....b
NEGF	Dent .....b	NEMP	Ammunition Lighter 8. ....b
NEGG	C. G. 232. ....b	NEMQ	Farenholt .....b
NEGJ	Luzon .....b	NEMR	Navajo .....b
NEGK	R-19 .....b	NEMS	Evans .....b
		NEMT	McKeanb

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	Lca.....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	Maury.....b	NETX	Maddox.....b
NEPI	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	Algorma.....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
NEQK	Mahan.....b	NEVX	Mackenzie.....b
NEQL	Maumee.....b	NEVZ	Renshaw.....b
NEQM	H-4.....b	NEXB	Radford.....b
NEQN	C. G. 283.....b	NEXC	Keosauqua.....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
NEQX	Kennison.....b	NEXP	Seneca.....b
NEQZ	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	NEXV	Stansbury.....b
NERG	Aulick.....b	NEXX	Hopewell.....b
NERJ	Craven.....b	NEXZ	Haraden.....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	Tuscarora.....b
NERQ	Turner.....b	NEZG	Manning.....b
NERR	Gillis.....b	NEZJ	Eagle 32.....b
NERS	Upshur.....b	NEZK	Pamlico.....b
NERT	Greer.....b	NEZL	Seminole.....b
NERV	Elliott.....b	NEZM	Little.....b
NERX	Roper.....b	NEZN	O-13.....b
NERZ	Breckenridge.....b	NEZP	Tarbell.....b
NESB	Penobscot.....b	NEZQ	Acushnet.....b
NESC	Paducah.....b	NEZR	Gamble.....b
NESD	Henderson.....b	NEZS	Abbot.....b
NESF	Bridge.....b	NEZT	Clemson.....b
NESG	Patterson.....b	NEZV	Hatfield.....b
NESJ	H-7.....b	NEZX	Brooks.....b
NESL	Patapsco.....b	NEZZ	Belknap.....b
NESM	Breese.....b	NFB	Fernandina, Fla. (section base 20).....fc
NESN	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	NIFF	H-2.....b
NFV	Quantico, Va.....fa, fx	NIFG	St. Louis.....b
NFW	Honolulu, T. H. (Wailupe).....fx	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.....fx	NIFZ	Torpedo test barge No. 4.....b
NGX	Otu, Samoa.....fc	NIG	Port Angeles, Wash. (section base 13).....fc
NHB	Newport, R. I. (torpedo station).....fx	NIGB	McCook.....b
NHD	Sandy Hook, N. J.....rg	NIGC	McCalla.....b
NHG	Cape Henry, Va. (section base 8).....fc	NIGD	Kalk.....b
NHP	Honolulu, T. H. (Heeia Point).....fx	NIGF	Osmund Ingram.....b
NHR	Hampton Roads, Va. (naval operat- ing base).....fc	NIGG	McDermut.....b
NIBB	Eagle 33.....b	NIGJ	Laub.....b
NIBC	Eagle 39.....b	NIGK	McLanahan.....b
NIBD	Eagle 34.....b	NIGL	Edwards.....b
NIBF	Eagle 40.....b	NIGM	Greene.....b
NIBG	Eagle 35.....b	NIGN	Ballard.....b
NIBJ	Eagle 41.....b	NIGP	Swasey.....b
NIBK	Eagle 36.....b	NIGQ	John Francis Burnes.....b
NIBL	Eagle 42.....b	NIGR	J. F. Talbot.....b
NIBM	Eagle 37.....b	NIGS	Yarnall.....b
NIBN	Eagle 38.....b	NIGT	Sonoma.....b
NIBP	Eagle 43.....b	NIGV	Marinduque.....b
NIBQ	Eagle 44.....b	NIGZ	Eagle.....b
NIBR	Eagle 45.....b	NIJC	Fairfax.....b
NIBS	Eagle 46.....b	NIJD	Salem.....b
NIBT	Eagle 47.....b	NIJF	Turkey.....b
NIBV	Eagle 48.....b	NIJG	Partridge.....b
NIBX	Eagle 49.....b	NIJJ	Bobolink.....b
NIBZ	Eagle 50.....b	NIJK	Lark.....b
NICB	Eagle 51.....b	NIJL	Pioneer.....b
NICC	Eagle 52.....b	NIJM	Seagull.....b
NICD	Eagle 53.....b	NIJN	Guide.....b
NICF	Eagle 54.....b	NIJP	Swan.....b
NICG	Eagle 55.....b	NIJQ	Whippoorwill.....b
NICI	Eagle 56.....b	NIJR	Bittern.....b
NICK	Eagle 57.....b	NIJS	Sanderling.....b
NICL	Eagle 58.....b	NIJT	Discoverer.....b
NICM	Eagle 59.....b	NIJV	Chewink.....b
NICN	Eagle 60.....b	NIJX	Gannet.....b
NICP	Cygan.....b	NIJZ	San Francisco.....b
NICQ	V-1.....b	NIK	San Francisco (naval headquarters).....fc, x
NICR	V-2.....b	NIKB	Mallard.....b
NICS	V-3.....b	NIKC	Ortolan.....b
NICT	V-4.....b	NIKD	Rochester.....b
NICV	V-5.....b	NIKF	Pigeon.....b
NICX	V-6.....b	NIKG	Redwing.....b
NICZ	V-7.....b	NIKK	Sandpiper.....b
NIDB	Tallapoosa.....b	NIKL	Vireo.....b
NIDC	Commanche.....b	NIKM	Lexington.....b
NIDD	V-8.....b	NIKN	Roe.....b
NIDF	Augusta.....b	NIKP	Woodcock.....b
NIDG	Forward.....b	NIKQ	Quail.....b
NIDJ	V-9.....b	NIKR	Eider.....b
NIDK	International ice patrol.....b	NIKS	Thrush.....b
NIDL	Unalga.....b	NIKT	Tern.....b
NIDM	Yamacraw.....b	NIKV	Cormorant.....b
NIDN	Tennessee.....b	NIKX	Grebe.....b
NIDP	Manley.....b	NIKZ	Terry.....b
NIDQ	Caldwell.....b	NILB	T-1.....b
NIDR	Connor.....b	NILC	R-1.....b
NIDS	Arapahoe.....b	NILD	R-2.....b
NIDT	Solace.....b	NILF	R-3.....b
NIDV	Huron.....b	NILG	R-4.....b
NIDX	Ontario.....b	NILJ	R-5.....b
		NILK	R-6.....b
		NILL	R-7.....b
		NILM	R-8.....b

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	Footo.....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
NIMN	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	NISI	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
NIPF	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	NIVR	Morris.....b
NIPM	S-41.....b	NIVC	Dix.....b
NIPN	S-42.....b	NIVD	Modoc.....b
NIPP	S-43.....b	NIVF	McLane.....b
NIPQ	S-44.....b	NIVG	G. G. 206.....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	NIXF	Reliance.....b
NIQQ	York.....b	NIXG	Smith.....b
NIQR	Farragut.....b	NIXJ	Diligence.....b
NIQS	Bagley.....b	NIXK	Vigilant.....b
NIQT	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
NIZI	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 Hinchinbrook, 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 Hueneme, 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.....c	NUGL	Laramie.....b
NOCB	Tillamook.....b	NUGM	Mattole.....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. 64.....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
NOPE	S. C. 223.....b	NUJM	James K. Paulding.....b
NOPG	S. C. 224.....b	NUJN	Overton.....b
NOPN	S. C. 229.....b	NUJP	Sturtevant.....b
NOPQ	S. C. 231.....b	NUJQ	Henshaw.....b
NOPR	S. C. 431.....b	NUJR	Meyer.....b
NOTZ	S. C. 433.....b	NUJS	Doyen.....b
NOQQ	S. C. 437.....b	NUJT	La Vallotte.....b
NORS	S. C. 271.....b	NUJV	Shirk.....b
NOTR	S. C. 306.....b	NUJX	Kidder.....b
NOVG	Patriot.....b	NUJZ	Selfridge.....b
NOVL	S. C. 326.....b	NUKB	Robert Smith.....b
NOVN	S. C. 328.....b	NUKC	Wasmuth.....b
NOVQ	S. C. 330.....b	NUKD	Hulbert.....b
NOXS	S. C. 353.....b	NUKF	Noa.....b
NOZJ	S. C. 412.....b	NUKX	Humphreys.....b
NPA	Cordova, Alaska, radio.....fc	NULJ	Welborn C. Wood.....b
NPB	Sitka, Alaska, radio.....fc	NULK	Alden.....b
NPC	Puget Sound, Wash.....fc	NULL	Borio.....b
NPD	Tatoosh, Wash.....rg	NULM	Kane.....b
NPE	Astoria, Oreg., radio.....fc	NULN	Childs.....b
NPF	Empire, Oreg.....fc	NULP	King.....b
NPG	San Francisco, Calif. (Mare Island).....fc, fx	NULQ	Sands.....b
NPH	Hilo, Hawaii.....fc	NULR	Sinclair.....b
NPI	Farallon Islands, Calif.....rg		
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.....b	NYW	Point St. George, Calif.....rg
NULT	Moody.....b	NZO	Annapolis, Md. (laboratory).....fx
NULV	Sharkey.....b	NZR	Fort Stevens, Oreg.....rg
NULX	Toucey.....b	NZS	Klipsan Beach, Wash.....rg
NULZ	Breck.....b	NZT	(Grand Marais, Mich.....rg
NUMB	Zeilin.....b		Whitefish Point, Mich.....rg
NUMC	Yarborough.....b	NZU	Detour Point, Mich.....rg
NUMD	Sloat.....b	NZV	Folly Island, S. C.....rg
NUMF	Wood.....b	NZW	North Island, S. C.....rg
NUMG	Marcus.....b	NZY	Quantico, Va. (Marine school).....fx
NUMJ	Mervine.....b	WAR	Washington, D. C.....fx
NUMK	Chase.....b	WBP	Key West, Fla.....fx
NUML	Mullany.....b	WEK	Wichita, Kans.....fx
NUMM	Litchfield.....b	WFT	Spartanburg, S. C.....fx
NUMN	Zane.....b	WHZ	Atlanta, Ga.....fx
NUMP	Trevor.....b	WJI	Atka Island, Alaska.....fx
NUMQ	William B. Preston.....b	WLX	Zamboanga, P. I. (Pettit Barracks).....fx
NUNC	Lamson.....b	WLY	Fort Monmouth, N. J. (Long Branch).....fx
NUND	Dale.....b	WNI	Moline, Ill.....fx
NUNF	Flusser.....b	WNR	Richmond, Va.....fx
NUNG	Preble.....b	WPR	Portland Lightship, Me.....fc, rf
NUNJ	Preston.....b	WPO	Boston Lightship, Mass.....fc, rf
NUNK	Reid.....b	WPQ	Pollock Rip Slue Lightship, Mass.....fc, rf
NUNL	Whipple.....b	WPS	Nantucket Shoals Lightship, Mass.....fc, rf
NUNM	Worden.....b	WPT	Relief Lightship No. 85.....fc
NUNN	Stewart.....b	WPW	Relief Lightship No. 90.....fc
NUNR	Dobbin.....b	WPX	Cornfield Point Lightship, Conn.....fc
NUNS	Williamson.....b	WPZ	Fire Island Lightship, N. Y.....fc, rf
NUNT	Reuben James.....b	WRA	Barneget Lightship, N. J.....fc, rf
NUNV	Isherwood.....b	WRCX	Kilkenny.....b
NUNX	Case.....b	WRD	North East End Lightship, N. J.....fc
NUPC	John D. Edwards.....b	WRE	Five Fathom Bank Lightship, N. J.....fc, rf
NUPD	Parrott.....b	WRF	Relief Lightship No. 78.....fc
NUPF	Lardner.....b	WRG	Ambrose Channel Lightship, N. Y.....fc, rf
NUPG	Putnam.....b	WRJ	Poe Reef Lighthouse, Mich.....fx
NUPJ	Pequot.....b	WRN	Fenwick Island Shoal Lightship, Del.....fx
NUPK	Coghlan.....b	WRO	Winter Quarter Shoals Lightship, Va.....fc, rf
NUPL	Sieard.....b	WRS	Chesapeake Lightship, Va.....fc, rf
NUPM	Edsall.....b	WRV	Diamond Shoals Lightship, N. C.....fc, rf
NUPN	Bulmer.....b	WRW	Greensboro, N. C.....fx
NUPP	Sirius.....b	WRY	Cape Lookout Shoals Lightship, N. C.....fc, rf
NUPQ	Billingsley.....b	WRZ	Relief Lightship No. 80.....fc
NUPR	Charles Ausburne.....b	WSD	Frying Pan Shoals Lightship, N. C.....fc, rf
NUPS	Bruce.....b	WSG	La Crosse, Wis.....fa, fx
NUPT	MacLeish.....b	WSJ	Brunswick Lightship, Ga.....fc
NUPV	Pruitt.....b	WSN	Relief Lightship No. 109.....fc
NUPX	Simpson.....b	WSP	Atlantic coast (portable).....fx
NUPZ	McCormick.....b	WSQ	Do.....fx
NUQB	Pope.....b	WSR	Do.....fx
NUQC	Osborne.....b	WST	Dry Tortugas Light Station, Fla.....fc, rf
NUQD	Peary.....b	WSU	Heald Bank Lightship, Tex.....fc
NUQF	Goff.....b	WSW	South Pass Lightship, La.....fx
NUQG	Pillsbury.....b	WSX	Boston, Mass.....fa, fx
NUQJ	John D. Ford.....b	WSZ	Navassa Island Light Station, Wind- ward Islands (Windward Passage).....fc
NUQK	Truxtun.....b	WTA	Manila, P. I. (Fort Santiago-Luzon).....fx
NUQL	Bainbridge.....b	WTB	Fort Wint, P. I. (Grande Island).....fx
NUQM	Hopkins.....b	WTC	March Field, Calif.....fa, fx
NUQN	Paul Jones.....b	WTD	Fort Wayne, Mich. (Battle Creek).....fx
NUQP	Barry.....b	WTDA	Albatross II.....b
NUQQ	Lawrence.....b	WTDB	Brant.....b
NUQR	MacDonough.....b	WTDC	Crane.....b
NUQS	Perry.....b	WTDD	Eider.....b
NUQT	Hull.....b	WTDE	Teal.....b
NUQV	Decatur.....b	WTDF	Scoter.....b
NUQX	Sumner.....b	WTDG	Kittiwake.....b
NUQZ	Corry.....b	WTG	Wrangell, Alaska.....fx
NURC	Melvin.....b	WTH	Fort Brady, Mich. (Sault Ste. Marie).....fx
NURD	Spica.....b	WTI	Vancouver Barracks, Wash.....fx
NURF	Procyon.....b	WTJ	Fort Shafter, Hawaii (Honolulu).....fx
NURG	Rigel.....b	WTN	Fort Preble, Me.....fx
NURJ	Altair.....b	WTO	Fort Kamehameha, Hawaii (Hono- lulu).....fx
NURL	President.....b	WTP	Fort Ruger, Hawaii.....fx
NURN	Dorothy.....b	WTQ	Petersburg, Alaska.....fx
NUVG	Petrel.....b	WTR	Fort Rodman, Mass.....fx
NUVQ	Wolcott.....b	WTS	Denver, Colo. (Fitzsimons General Hospital).....fx
NUV	Soapstone Point, Alaska.....rg		
NVG	Barataria, La. (Grande Isle).....fc		
NWM	Boston Bay RC group, Master Station, Deer Island, Mass.....rg		
NXG	Unalaska, Alaska.....fc		

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).....fx
WTV	Haines, Alaska.....fx	WWDG	Acencia.....b
WTW	Fort Monmouth, N. J.....fx	WWDH	Amaranth.....b
WTX	Fort McKinley, P. I. (Rizal).....fx	WWDK	Marigold.....b
WTY	Camp Knox, Ky.....fx	WWDL	Ilyacinth.....b
WTZ	Fort Still, Okla.....fx	WWDN	Sumac.....b
WUA	Camp Devens, Mass.....fx	WWDQ	Fern.....b
WUAA	Cambrai.....b	WWDQ	Cedar.....b
WUAB	Somme.....b	WWDQ	Heather.....b
WUAC	Meigs.....b	WWDQ	Manzanita.....b
WUAD	St. Mihiel.....b	WWDQ	Rose.....b
WUAF	Chateau Thierry.....b	WWDQ	Lupine.....b
WUAG	Grant.....b	WWDQ	Sequoia.....b
WUAH	Merritt.....b	WWDQ	Kukui.....b
WUAI	Thomas.....b	WWE	Fourteen Foot Shoals, Mich.....fx
WUAJ	Dellwood.....b	WWF	Akiak, Alaska.....fx
WUAK	Kenowis.....b	WWFA	Seal.....b
WUB	Fort Hancock, N. J. (Highland Beach).....fx	WWG	Cheboygan Range, Mich.....fx
WUC	Fort H. G. Wright, N. Y.....fx	WWH	Stannard Rock Light Station, Mich.....fc
WUD	Fort Eustis, Va.....fx	WWLI	General call for all Bureau of Light- houses stations.....c, fc, fx
WUE	Fort Frank, P. I. (Carabao Island).....fx	WWM	Marquette Light Station, Mich.....fx, rf
WUF	Fort Monroe, Va.....fx	WWN	Detroit River Light Station, Mich.....fx
WUG	Camp Marfa, Tex.....fx	WVO	Cleveland, Ohio.....fx
WUH	Fort McIntosh (Laredo), Tex.....fx	WWP	Savoonga, Alaska (St. Lawrence Island).....fx
WUI	Fort Riley, Kans.....fx	WWQ	Bellefonte, Pa.....fx
WUJ	Fort Lewis, Wash.....fx	WWR	Detroit Lighthouse Depot, Mich.....fx
WUK	Fort George G. Meade, Md.....fx	WWT	Afognak, Alaska.....fx
WUL	Fort Totten, N. Y.....fx	WWU	New Brunswick, N. J. (Hadley Field).....fx, fx
WUM	Tucson, Ariz.....fa, fx	WWV	Washington, D. C. (Bureau of Stand- ards radio laboratory).....fx
WUN	Aberdeen Proving Grounds, Md.....fx	WWX	Washington, D. C.....fx
WUO	Fort Benning, Ga. (Columbus).....fx	WWY	Pittsburgh, Pa. (portable).....fx
WUP	Fort Mills, P. I. (Corregidor Island).....fx	WWZ	Lansing Shoal Lightship, Mich.....fc, rf
WUQ	Yuma, Ariz.....fa, fx	WXA	Juneau, Alaska.....fx
WUR	Camp McClellan, Ala. (Anniston).....fx	WXB	Point Barrow, Alaska.....fx
WUS	Fort Oglethorpe, Ga.....fx	WXC	Sitka, Alaska.....fx
WUT	Fort Story, Va.....fx	WXD	Circle, Alaska.....fx
WUU	Fort Adams, R. I. (Newport).....fx	WXP	Livengood, Alaska.....fx
WUV	Fort Thomas, Ky.....fx	WXG	Wiseman, Alaska.....fx
WUW	West Point, N. Y.....fx	WXH	Ketchikan, Alaska.....fc, fx
WUX	Fort Ethan Allen, Vt. (Essex Junc- tion).....fx	WXI	Bethel, Alaska.....fx
WUY	Fort Crockett, Tex. (Galveston).....fa, fx	WXJ	Valdez, Alaska Radio.....fc, fx
WUZ	Fort Brown, Tex. (Brownsville).....fx	WXK	Hot Springs, Alaska.....fx
WVB	Fort Sam Houston, Tex. (San Anto- nio).....fx	WXL	Iditarod, Alaska.....fx
WVC	Fort Leavenworth, Kans.....fx	WXM	Holy Cross, Alaska.....fx
WVD	Seattle, Wash.....fx	WXN	Fortuna Ledge, Alaska.....fx
WVL	Quarry Heights, Canal Zone.....fx	WXP	Craig, Alaska.....fx
WVN	Tientsin, China.....fx	WXP	Fairbanks, Alaska.....fx
WVO	Boston, Mass.....fx	WXQ	Fort Egbert, Alaska.....fx
WVP	Governors Island, N. Y.....fx	WXR	Seward, Alaska Radio.....fc, fx
WVQ	Fort Howard, Md. (Baltimore).....fx	WXS	Fort Gibbon, Alaska (Tonana).....fx
WVR	Fort McPherson, Ga.....fx	WXT	Fort St. Michael, Alaska.....fx
WVS	Fort Benjamin Harrison, Ind.....fx	WXU	Ruby, Alaska.....fx
WVT	Chicago, Ill.....fx	WXV	Tacotna, Alaska.....fx
WVU	Fort Omaha, Nebr.....fx	WXW	Kotzebue, Alaska.....fx
WVV	Jefferson Barracks, Mo. (St. Louis).....fx	WXX	Fort Yukon, Alaska.....fx
WVW	Fort D. A. Russell, Wyo.....fx	WXY	Nome, Alaska Radio.....fc, fx
WVX	Fort Douglas, Utah (Salt Lake City).....fx	WYZ	Nulato, Alaska.....fx
WVY	San Francisco, Calif. (Presidio of San Francisco).....fx	WYA	Mitchell Field, N. Y. (Mineola, L. I.) fa, fx
WVZ	Fort Hayes, Ohio (Columbus).....fx	WYAA	General Royal T. Frank.....b
WWA	Radio Test Car No. 1 (portable).....fx	WYAB	General John M. Schofield.....b
WWCA	Hibiscus.....b	WYAC	Joseph Henry.....b
WWCB	Ilex.....b	WYAF	General Edward O. C. Ord.....b
WWCD	Anemone.....b	WYAG	Colonel George Armistead.....b
WWCE	Azalea.....b	WYAH	General Robert Anderson.....b
WWCF	Lotus.....b	WYAI	General George H. Weeks.....b
WWCH	Tulip.....b	WYAJ	Miley.....b
WWCI	Larkspur.....b	WYAK	General G. W. Getty.....b
WWCJ	Spruce.....b	WYAM	Captain James Farnance.....b
WWCN	Maple.....b	WYAN	Reno.....b
WWCO	Orchid.....b	WYAO	Major Evan Thomas.....b
WWCP	Mayflower.....b	WYAR	General R. N. Batchelder.....b
WWCQ	Speedwell.....b	WYAT	General Miffin.....b
WWCT	Cypress.....b	WYAU	San Pedro.....b
WWCU	Mangrove.....b	WYAV	Slocum.....b
WWCW	Ivy.....b	WYAY	General Richard Arnold.....b
WWCY	Magnolia.....b		
WWCZ	Sunflower.....b		

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. (Rantoul).....fa, fx
WYBC	San Pablo.....b	WYK	Maxwell Field, Ala.....fx
WYBD	General William M. Graham.....b	WYL	Cumberland Field, Md. (Cumberland).....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 Stotsenburg).....fa, fx
WYC	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	Grundler, Alaska.....fx
WYCG	Kappa.....b	WZB	Fort Clark, Tex. (Brackettsville).....fx
WYCH	Henry Flad.....b	WZC	Skagway, Alaska.....fx
WYCI	B. M. Harrod.....b	WZD	Fort Barrancas, Fla.....fx
WYCJ	West Memphis.....b	WZE	Dillingham, Alaska.....fx
WYCK	John Ewens.....b	WZF	Squaw Harbor, Alaska Radio (Unga Island).....fx
WYCL	Culebra.....b	WZG	Fort Bragg, N. C. (Fayetteville).....fx
WYCM	F. H. Illiard.....b	WZH	Los Angeles, Calif.....fx
WYCN	A. Mackenzie.....b	WZI	Fort Ringgold, Tex.....fx
WYCO	W. L. Marshall.....b	WZJ	Schofield Barracks, Hawaii.....fx
WYCP	Dan C. Kingman.....b	WZK	St. Louis, Mo.....fx
WYCQ	Wm. T. Russell.....b	WZL	Camp Stephen D. Little, Ariz.....fx
WYCR	Morgan-Lewis.....b	WZM	Camp Harry J. Jones, Ariz. (Douglas).....fx
WYCS	Sprigg Carroll.....b	WZN	Camp Stotsenburg, P. I.....fx
WYCT	Mississippi.....b	WZO	Fort Bliss, Tex. (El Paso).....fx
WYCU	Aldebaran.....b	WZP	Fort Huachuca, Ariz.....fx
WYCV	Omega.....b	WZQ	Fort John Hay, P. I.....fx
WYCW	H. S. Taber.....b	WZS	Fort Snelling, Minn.....fx
WYCX	Willets Point.....b	WZT	Fort Des Moines, Iowa (Des Moines).....fx
WYCY	Tuscombua.....b	WZU	Fort Sherman, Canal Zone.....fx
WYCZ	Griffith.....b	WZV	Fort Randolph, Canal Zone.....fx
WYD	Dayton, Ohio.....fa, fx	WZW	Fort McArthur, Calif.....fx
WYDC	Tecumseh.....b	WZY	Fort Grant, Canal Zone.....fx
WYDD	Fort Gage.....b	WZZ	Crissy Field (Presidio of San Francisco), Calif.....fa, fx
WYDE	Fort Chartres.....b		
WYDG	Barnard.....b		
WYDH	Gouverneur.....b		
WYE	Selfridge Field, Mich. (Mount Clemens).....fa, fx		
WYF	Scott Field, Ill. (Bellefonte).....fa, fx		
WYG	Kelly Field, Tex. (San Antonio).....fx		

GOVERNMENT AIRCRAFT STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Station	Call signal	Frequen- cy in kilo- cycles (meters in paren- theses)	Hours	Owner
(U. S. S.) Arizona—any aircraft attached to.....	NVMGY			U. S. Navy.
(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).....	NZNJT			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.) Modusa—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.....	NVMHC			Do.
(U. S. S.) New Mexico—any aircraft attached to.....	NVMJK			Do.
(U. S. S.) New York—any aircraft attached to.....	NVMKL			Do.
Ninth naval district—any aircraft attached to.....	NVMGK			Do.
(U. S. S.) Oklahoma—any aircraft attached to.....	NVMBF			Do.
(U. S. S.) Omaha—any aircraft attached to.....	NVMQG			Do.
(U. S. S.) Patoka—any aircraft attached to.....	NVMHB			Do.
(U. S. S.) Raleigh—any aircraft attached to.....	NVMVC			Do.
(U. S. S.) Richmond—any aircraft attached to.....	NVMNS			Do.
(U. S. S.) Saratoga—any aircraft attached to.....	NVMUF			Do.
Seventh naval district—any aircraft attached to.....	NVMGH			Do.
Sixteenth naval district—any aircraft attached to.....	NVMGR			Do.
Sixth naval district—any aircraft attached to.....	NVMGF			Do.
(U. S. S.) Tennessee—any aircraft attached to.....	NVMLN			Do.
(U. S. S.) Texas—any aircraft attached to.....	NVMAB			Do.
Third naval district—any aircraft attached to.....	NVMGB			Do.
Thirteenth naval district—any aircraft attached to.....	NVMGP			Do.
(U. S. S.) Trenton—any aircraft attached to.....	NVMXA			Do.
Twelfth naval district—any aircraft attached to.....	NVMGM			Do.
(U. S. S.) Utah—any aircraft attached to.....	NVMVP			Do.
(U. S. S.) West Virginia—any aircraft attached to.....	NVMNP			Do.
(U. S. S.) Wright—any aircraft attached to.....	NVMND			Do.
(U. S. S.) Wyoming—any aircraft attached to.....	NVMKN			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.	NVMIL	(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

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

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

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

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

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. $41^{\circ} 13' N.$, long. $72^{\circ} 07' W.$ Transmits groups of 1 dot and 3 dashes, thus—

. — — — . — — — etc.
60 seconds

Silent
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. $41^{\circ} 03' N.$, long. $73^{\circ} 06' W.$ Transmits groups of 1 dot, 2 dashes, and 1 dot, thus—

. — — . — — . etc.
60 seconds

Silent
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. $40^{\circ} 53' N.$, long. $73^{\circ} 44' W.$ Transmits groups of 1 dash, 1 dot, and 1 dash, thus—

— . — . — . etc.
60 seconds

Silent
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. $40^{\circ} 28' N.$, long. $73^{\circ} 11' W.$ Transmits groups of 2 dashes, thus—

— — — — — etc.
60 seconds

Silent
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. $40^{\circ} 28' N.$, long. $73^{\circ} 50' W.$ Transmits single dots, thus—

. etc.
60 seconds

Silent
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. $39^{\circ} 46' N.$, long. $73^{\circ} 56' W.$ Transmits groups of 3 dashes, thus—

— — — — — etc.
60 seconds

Silent
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. $38^{\circ} 47' N.$, long. $74^{\circ} 34' W.$ Transmits groups of 2 dots and 2 dashes, thus—

. . — — . . — — etc.
60 seconds

Silent
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. $37^{\circ} 55' N.$, long. $74^{\circ} 56' W.$ Transmits groups of 3 dashes and 1 dot, thus—

— — — . — — — . etc.
60 seconds

Silent
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. $37^{\circ} 05' N.$, long. $75^{\circ} 41' W.$ Transmits groups of 1 dot, 2 dashes, and 1 dot, thus—

. — . — . etc.
60 seconds

Silent
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. $36^{\circ} 55\frac{1}{2}' N.$, long. $76^{\circ} 00\frac{1}{2}' W.$ Transmits groups of 1 dash, 1 dot and 1 dash, thus—

— . — . — . etc.
60 seconds

Silent
120 seconds

Transmits daily in clear weather from 2 to 2.30 and 8 to 8.30 a. m. and p. m. on 285 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. $38^{\circ} 23' N.$, long. $76^{\circ} 23' W.$ Transmits groups of 1 dot and 2 dashes, thus—

. — — . — — etc.
60 seconds

Silent
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. $37^{\circ} 53' N.$, long. $76^{\circ} 11' W.$ Transmits groups of 1 dash, 2 dots and 1 dash, thus—

— . . — . . — . etc.
60 seconds

Silent
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. $35^{\circ} 05' N.$, long. $75^{\circ} 19' W.$ Transmits groups of 2 dashes and 1 dot, thus—

— — . — — . etc.
60 seconds

Silent
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. $34^{\circ} 18' N.$, long. $76^{\circ} 24' W.$ Transmits only on request on 290 kc. (1,034 m.), groups of 1 dot, 1 dash, a dot, and 1 dash, thus—

. — . — . — . etc.
60 seconds

Silent
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. $33^{\circ} 34' N.$, long. $77^{\circ} 49' W.$ Transmits only on request on 310 kc. (968 m.), groups of 2 dashes, thus—

— — — — — etc.
60 seconds

Silent
120 seconds

Call WSD.

ST. JOHNS RIVER LIGHT STATION, Fla., lat. $30^{\circ} 24' N.$, Long. $81^{\circ} 26' W.$ Transmits groups of 1 dash, 1 dot, 1 dash, thus—

. — . — . — . etc.
60 seconds

Silent
120 seconds

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

JUPITER INLET LIGHT STATION, Fla., lat. $26^{\circ} 57' N.$, long. $80^{\circ} 05'$. Transmits groups of 1 dot and 3 dashes, thus—

. — — — . etc.
60 seconds

Silent
120 seconds

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. $24^{\circ} 38' N.$, long. $82^{\circ} 56' W.$ Transmits groups of 3 dashes, thus—

— — — — — etc.
60 seconds

Silent
120 seconds

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. $30^{\circ} 11' N.$, long. $88^{\circ} 03' W.$ Transmits groups of 1 dot, 1 dash and 1 dot, thus—

. — . — . etc.
60 seconds

Silent
120 seconds

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. $28^{\circ} 59' N.$, long. $89^{\circ} 08' W.$ Transmits groups of 2 dashes, thus—

— — — — — etc.
60 seconds

Silent
120 seconds

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. $29^{\circ} 43' N.$, long. $93^{\circ} 51' W.$ Transmits groups of 2 dashes and 1 dot, thus—

— — . — — . etc.
60 seconds

Silent
120 seconds

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. $29^{\circ} 19' N.$, long. $94^{\circ} 41' W.$ Transmits groups of 1 dash, 2 dots and 1 dash, thus—

. — — — — . etc.
60 seconds

Silent
120 seconds

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. $27^{\circ} 52' N.$, long. $97^{\circ} 03' W.$ Transmits groups of 1 dash, 1 dot and 1 dash, thus—

— . — — . — . etc.
60 seconds

Silent
120 seconds

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. $42^{\circ} 52' N.$, long. $78^{\circ} 54' W.$ Transmits groups of four 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 294 kc. (1,020 m.). Ninetieth meridian time.

ASHTABULA LIGHTHOUSE, Ohio, lat. $41^{\circ} 55' N.$, long., $80^{\circ} 48' W.$ Transmits groups of 2 dashes and 1 dot, 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.). Ninetieth meridian time.

DETROIT RIVER LIGHT STATION, Mich., lat. $42^{\circ} 00' N.$, long. $83^{\circ} 08' W.$ Transmits groups of 2 dashes, 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 306 kc. (980 m.). Ninetieth meridian time.

LAKE HURON LIGHTSHIP, Mich., lat. $43^{\circ} 03' N.$, long. $82^{\circ} 25' W.$ Transmits groups of 3 dashes, thus—

— — — — etc.
60 seconds

Silent
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. $45^{\circ} 02' N.$, long. $83^{\circ} 11' W.$ Transmits groups of 1 dash, 1 dot 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 286 kc. (1,049 m.). Ninetieth meridian time.

DETOUR LIGHT STATION, Mich., lat. $45^{\circ} 57' N.$, long. $83^{\circ} 55' W.$ Transmits groups of 4 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 286 kc. (1,049 m.). Ninetieth meridian time.

WHITEFISH POINT LIGHT STATION, Mich., lat. $46^{\circ} 46' N.$, long. $84^{\circ} 57' W.$ Transmits three dashes and 1 dot, 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 286 kc. (1,049 m.).

LUDINGTON NORTH BREAKWATER LIGHT STATION, Mich., lat. $43^{\circ} 57' N.$, long. $86^{\circ} 28' W.$ Transmits groups of 4 dashes, thus—

— — — — — etc.
60 seconds

Silent
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. $43^{\circ} 03' N.$, long. $86^{\circ} 15' W.$ Transmits groups of 1 dot and 3 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 302 kc. (993 m.).

CALUMET HARBOR LIGHT STATION, Ill., lat. $41^{\circ} 44' N.$, long. $87^{\circ} 30' W.$ Transmits groups of 1 dash, 1 dot, and 1 dash, thus—

— . — — . — . etc.
60 seconds

Silent
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. $41^{\circ} 54' N.$, long. $87^{\circ} 36' W.$ 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. $43^{\circ} 01' N.$, long. $87^{\circ} 53' W.$ 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. $44^{\circ} 05' N.$, long. $87^{\circ} 38' W.$ 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. $46^{\circ} 33' N.$, long. $87^{\circ} 23' W.$ 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. $47^{\circ} 25' N.$ long. $87^{\circ} 35' W.$ 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. $46^{\circ} 44' N.$, long. $90^{\circ} 47' W.$ 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. $47^{\circ} 05' N.$, long. $90^{\circ} 43' W.$ 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. $46^{\circ} 47' N.$, long. $92^{\circ} 05' W.$ 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. $48^{\circ} 13' N.$, long. $88^{\circ} 22' W.$ 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.).

POINT BETSIE LIGHT STATION, Mich., lat. $44^{\circ} 41' N.$, long. $86^{\circ} 15' W.$ Transmits groups of 1 dot, 2 dashes and 1 dot, 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 314 kc. (955 m.).

LANSING SHOAL LIGHTSHIP, Mich., lat. $45^{\circ} 54' N.$, long. $85^{\circ} 34' W.$ Transmits groups of 2 dashes and 2 dots, thus—

— — . . — — . . etc.
60 seconds

Silent
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 314 kc. (955 m.).

PACIFIC COAST

LOS ANGELES HARBOR LIGHT STATION, Calif., lat. $33^{\circ} 42' N.$, long. $118^{\circ} 15' W.$ Transmits groups of 1 dot and 2 dashes, thus—

. — — . — — etc.
60 seconds

Silent
120 seconds

Transmits daily in clear weather from 9 to 9.30 and from 3 to 3.30 a. m. and p. m.; also during second 15 minutes of each hour from 6.15 p. m. to 7.30 a. m. on 305 kc. (984 m.).

POINT ARGUELLO LIGHT STATION, Calif., lat. $34^{\circ} 34' N.$, long. $120^{\circ} 39' W.$ Transmits groups of 3 dashes, thus—

— — — — — etc.
60 seconds

Silent
120 seconds

Transmits daily in clear weather from 9.30 to 10 a. m. and from 3.30 to 4 p. m. and for the first and last 15 minutes of each odd hour from 5 p. m. to 8 a. m. on 290 kc. (1,034 m.).

POINT SUR LIGHT STATION, Calif., lat. $36^{\circ} 18' N.$, long. $121^{\circ} 54' W.$ Transmits groups of 1 dot, 2 dashes, 1 dot, thus—

. — — . . — — . etc.
60 seconds

Silent
120 seconds

Transmits daily in clear weather from 9 to 9.30 a. m. and from 3 to 3.30 p. m. and for the first and last 15 minutes of each even hour from 6 p. m. to 7 a. m. on 300 kc. (1,000 m.).

SAN FRANCISCO LIGHTSHIP, Calif., lat. $37^{\circ} 45' N.$, long. $122^{\circ} 41' W.$ Transmits groups of 2 dashes, thus—

— — — — — etc.
60 seconds

Silent
120 seconds

Transmits daily in clear weather for the second 15 minutes of each hour on 310 kc. (968 m.). Call KCN.

The radio operator stands watch for the first 15 minutes of each hour from 8 a. m. to 9.15 p. m. daily, except when beacon is operating during thick or foggy weather.

POINT ARENA LIGHTHOUSE, Calif., lat. $38^{\circ} 57' N.$, long. $123^{\circ} 44' W.$ Transmits groups of 2 dashes and 1 dot, thus—

— — . — — . etc.
60 seconds

Silent
120 seconds

Transmits daily in clear weather from 9.30 to 10 a. m., 3.30 to 4 p. m. and the third 15 minutes of each hour from 6.30 p. m. to 6.45 a. m. on 295 kc. (1,017 m.).

BLUNTS REEF LIGHTSHIP, Calif., lat. $40^{\circ} 26' N.$, long. $124^{\circ} 30' W.$ 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 9 to 9.30 a. m. and from 3 to 3.30 p. m. and for the first 15 minutes of each even hour from 10 p. m. to 6.15 a. m. on 305 kc. (984 m.). Call KCM.

CAPE BLANCO LIGHT STATION, Calif., lat. 42° 50' N., long. 124° 34' W. Transmits groups of 3 dashes and 1 dot, thus—

— . — . — . etc.
60 seconds

————— Silent
120 seconds

Transmits daily in clear weather from 10.30 to 11 a. m. and from 4.30 to 5 p. m., and for the third 15 minutes of each even hour from 10.30 p. m. to 6.45 a. m. on 290 kc. (1,034 m.).

COLUMBIA RIVER LIGHTSHIP, Oreg., lat. 46° 11' N., long. 124° 11' W. Transmits groups of 3 dashes, thus—

— — — — — etc.
60 seconds

————— Silent
120 seconds

Transmits daily in clear weather from 8.30 to 9 a. m. and from 2.30 to 3 p. m. and for the first 15 minutes of each odd hour from 9 p. m. to 7.15 a. m. on 310 kc. (968 m.).

Radio operator stands watch for first 15 minutes of each hour from 8 a. m. to 8.15 p. m. Call KCK.

GRAYS HARBOR LIGHT STATION, Wash., lat. 46° 53' N., long. 124° 07' W. Transmits groups of 4 dashes, thus—

— — — — — etc.
60 seconds

————— Silent
120 seconds

Transmits daily in clear weather from 7.30 to 8 a. m. and from 1.30 to 2 p. m. and for the first 15 minutes of each even hour from 10 p. m. to 8.15 a. m. on 295 kc. (1,017 m.).

UMATILLA REEF LIGHTSHIP, Wash., lat. 48° 23' N., long. 124° 51' W. Transmits only on request on 305 kc. (984 m.). Groups of 1 dot, 1 dash, and 1 dot, thus—

— . — . — . etc.
60 seconds

————— Silent
120 seconds

Radio operator stands watch for the first 15 minutes of each hour from 8 a. m. to 8.15 p. m. Call KCJ.

SWIFTSURE BANK LIGHTSHIP, Wash., lat. 48° 32' N., long. 125° 00' W. Transmits groups of 2 dashes, thus—

— — — — — etc.
60 seconds

————— Silent
120 seconds

Transmits daily in clear weather for the second 15 minutes of each hour on 290 kc. (1,034 m.).

Radio operator stands watch for the first 15 minutes of each hour from 8 a. m. to 8.15 p. m. Call KCI.

SENTINEL ISLAND LIGHTHOUSE, Alaska, lat. 58° 33' N., long. 134° 55' W. Transmits groups of 1 dash, 1 dot, and 1 dash, thus—

— . — — — — etc.
60 seconds

————— Silent
120 seconds

Transmits daily in clear weather from 5 to 5.30 and 11 to 11.30 a. m. and p. m. on 295 kc. (1,017 m.).

CAPE SPENCER LIGHT STATION, Alaska, lat. 58° 12' N., long. 136° 38' W. Transmits single dashes, thus—

— — — — — etc.
60 seconds

————— Silent
120 seconds

Transmits daily in clear weather from 9 to 9.30 a. m. and from 3 to 3.30 p. m. and for the first 15 minutes of each even hour from 10 p. m. to 6.15 a. m. on 310 kc. (968 m.).

CAPE ST. ELIAS LIGHT STATION, Alaska, lat. 59° 48' N., long. 144° 37' W. Transmits groups of 4 dashes, thus—

— — — — — etc.
60 seconds

————— Silent
120 seconds

Transmits daily in clear weather from 2 to 2.30 and 8 to 8.30 a. m. and p. m. on 290 kc. (1,034 m.).

MAKAPUU POINT LIGHT STATION, Hawaii, lat. 21° 19' N., long. 157° 39' W. Transmits groups of 4 dashes, thus—

— — — — — etc.
60 seconds

————— Silent
120 seconds

Transmits daily in clear weather from 10.30 to 11 a. m. and from 3.30 to 4 p. m. and for the third 15 minutes of each hour from 7.30 p. m. to 6.45 a. m. on 290 kc. (1,034 m.); 157½ meridian time.

RADIO-COMPASS STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Station	Call signal	Geographical position	Arc of calibration
Amagansett, N. Y. ¹	NBM	Receiver, 72° 07' 27'' W., 40° 58' 10'' N.; transmitter, 72° 07' 30'' W., 40° 58' 20'' N.	39°-232°.
Bar Harbor, Me. ¹	NQC	Receiver, 68° 11' 40'' W., 44° 18' 48'' N.; transmitter, 68° 11' 40'' W., 44° 18' 51'' N.	63°-213°.
Bethany Beach, Del. (single group).	(NBN) (NSD)	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 (Portland), 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' 09'' 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 vicinity.
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 ¹	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.; transmitter (NSD), 75° 05' 27'' W., 38° 47' 34'' N.	40°-240°.
Cattle Point, Wash. ¹	NFN	Receiver, 122° 57' 45'' W., 48° 27' 05'' N.; transmitter, 122° 57' 41'' W., 48° 27' 17'' N.	120°-270°.
Chesapeake Bay Entrance, Va. (See Virginia Beach.)	NCZ		
Deer Island, Mass. ¹ (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 Henlopen.)	NSD		
Destruction Island, Wash.	NOJ	Receiver and transmitter, 124° 29' 00'' W., 47° 40' 30'' N.	0°-360°.
Detour Point, Mich. ¹	NZU	Receiver, 83° 54' 54'' W., 45° 57' 20'' N.; transmitter, 83° 54' 44'' W., 45° 57' 28'' N.	100°-260°. Continuous service during the season of navigation.
Eagle Harbor, Mich. ¹	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 navigation.
Empire, Oreg. ¹	NPF	Receiver, 124° 18' 58'' W., 43° 23' 03'' N.; transmitter, 124° 18' 29'' W., 43° 22' 55'' N.	65°-10°.
Eureka, Calif. ¹	NPW	Receiver and transmitter, 124° 16' 24'' W., 40° 41' 46'' N.	214°-17°.
Farallon Island, Calif. ¹ ..	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. ¹ (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. ¹	NZV	Receiver, 79° 53' 22'' W., 32° 41' 00'' N.; transmitter, 79° 53' 20'' W., 32° 41' 07'' N.	30°-210°.

¹ 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
Fort Stevens, Oreg. ¹ ----	NZR	Receiver, 123° 58' 31" W., 46° 11' 49" N.; transmitter, 123° 58' 28" W., 46° 11' 38" N.	180°-12°.
Fourth Cliff, Mass. ¹ (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. ¹ -----	NKB	Receiver and transmitter, 94° 45' 13" W., 29° 20' 01" N.	30°-205°.
Grand Marais, Mich.---	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. ¹ ---	NPZ	Receiver and transmitter, 117° 07' 54" W., 32° 35' 14" N.	184°-344°.
Jupiter, Fla. ¹ -----	NAQ	Receiver and transmitter, 80° 05' 02" W., 26° 56' 54" N.	6°-146°.
Klipsan Beach, Wash. ¹ ---	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. ¹ (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. ¹ ----	NZW	Receiver, 79° 11' 10" W., 33° 13' 18" N.; transmitter, 79° 11' 11" W., 33° 13' 22" N.	40°-320°.
North Truro, Mass. ¹ ----	NAE	Receiver, 70° 03' 37" W., 42° 02' 23" N.; transmitter, 70° 03' 43" W., 42° 02' 27" N.	210°-160°.
Pensacola, Fla. ¹ -----	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. ¹ ---	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. ¹ ----	NPX	Receiver, 118° 17' 37" W., 33° 42' 19" N.; transmitter, 118° 17' 36" W., 33° 42' 22" N.	85°-330°.
Point Hueneme, Calif. ¹ ---	NMD	Receiver and transmitter, 119° 12' 12" W., 34° 08' 44" N.	140°-300°.
Point Montara, Calif. ¹ ---	NLE	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. ¹ ----	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. ¹ ---	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). ¹	{NDX {NCZ	{Receiver and transmitter (NDX), 75° 47' 48" W., 36° 17' 16" N.; transmitter (NCZ), 75° 58' 37" W., 36° 09' 09" N.	{0-150°.
Prices Neck, R. I. ¹ -----	NGO	Receiver and transmitter, 71° 20' 16" W., 41° 27' 04" N.	0-360°.
St. Paul, Alaska ¹ -----	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).	{NHD {NJY	{Receiver and transmitter (NHD), 73° 59' 50" W., 40° 27' 54" N.; transmitter (NJY), 73° 13' 00" W., 40° 37' 59" N.	{0-182°.
Smith Island, Wash. ¹ ----	NFH	Receiver, 122° 50' 39" W., 48° 19' 04" N.; transmitter, 122° 50' 35" W., 48° 19' 12" N.	0-360°.

¹ 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. ¹	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. ¹	NBX	Receiver and transmitter, 89° 09' 36'' W., 29° 00' 43'' N.	81-237°.
Surfside, Mass. (Nantucket Island). ¹	NBS	Receiver, 70° 05' 53'' W., 41° 14' 39'' N.; transmitter, 70° 05' 55'' W., 41° 14' 40'' N.	0-360°.
Tatoosh, Wash. ¹	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). ¹	(NBE) (NWM)	{Receiver and transmitter (NBE), 70° 34' 45'' W., 42° 38' 10'' N.; transmitter (NWM), 70° 57' 20'' 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). ¹	NCZ	Receiver, 75° 58' 33'' W., 36° 51' 10'' N.; transmitter, 75° 58' 37'' W., 36° 51' 09'' N.	355-160°.
Whitefish Point, Mich. ¹	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.

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

EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

Location of trans- mitter	Call sig- nal	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)	(¹)	Bernard H. Linden, 906 Santa Fe Ave.
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	University of California.
Beverly Hills	W6XAH	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	W6XBB	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. Cheminant, 2500 Mar- vin Ave.
Do	W6XBO	1,200 (250) to 75,000 (4)	(²)	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 Oak- land.
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., 5441 E. Fourteenth St.
Do	W6XW	Variable to 200 (1,500)	(³)	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 (38.68), 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), 18,260 (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.

¹ Variable to 1,000.

² Variable to 500.

³ 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 (17.341).	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: Gunnis- 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 Serv- ice 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.....	W1XN	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).	(¹)	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), 3,256 (92.1376), 6,425 (46.6926), 8,650 (34.68), 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).
Hammond.....	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 Elsrade 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, Communication 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.

¹ 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 (34.08), 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	1,608 (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), 18,200 (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 (8.70).	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), 8,580 (34.04)-----	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 (34.08), 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 (34.08), 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), 18,290 (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 (54.46), 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. Communications (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 (16.940), 18,260 (16.429), 18,780 (15.974), 19,540 (15.253), 19,580 (15.322), 19,620 (15.291), 19,740 (15.198), 20,300 (14.778), 20,980 (14.209), 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.....	W2XCH	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.....	25,000	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), 41,000 (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 (52.0) 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. Mowelling, 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).	(4)	Ceco Manufacturing Co. (Inc.).
Texas: Houston....	W5XJ	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.	W9XH	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	Cresco (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.).

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	2,002 (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 Labo- ratories, 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 Uni- versity.	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.
Hawaii: Honolulu..	K6XBZ	.....	7.5	Mutual Telephone Co.
Illinois: Chicago..	W9XZ	2,308 (130) to 18,750 (16).....	.....	Pyle-National Co., 1334 North Kostner Ave.
Maine: Houlton..	W1XR	50 (6,000) to 70 (4,286).....	1,000	American Telephone & Tele- graph Co., 195 Broadway, New York, N. Y.
Massachusetts:				
Boston.....	W1XAF	Variable.....	Variable.	Edison Electric Illuminat- ing 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 & Tele- graph 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 dis- trict.	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) 0,000 (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 (70.00), 8,560 (35.05).....	100	Universal Wireless Com- munications 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				
(⁶)----- C-268-----	W8XA W7XAA	2,302 (130.32), 4,108 (73.023) ---- 315 (950), 350 (850), 1,500 (200) to 6,000 (50).	100 50	Ford Motor Co. 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 (73.023), 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.
No. 4876-----	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.
NX7918-----	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.
X118E-----	W1OXH	4,108 (73.03)-----	10	Daniel Guggenheim Fund (Inc.), 598 Madison Ave., New York, N. Y.
X7654-----	W2XAQ	2,506 (119.7)-----	50	Sky Lines (Inc.).
X855E-----	W8XC	1,608 (186.57), 2,302 (130.32), 4,108 (73.023), 8,650 (34.68).	75	Packard Motor Car Co.
Unnamed-----	W1OXF	315 (952) to 350 (857) 1,608 (186.57), 8,330 (36.01).	200	Chicago Daily News.
	W1OXM	1,608 (186.57), 2,302 (130.32), 3,076 (97.5), 4,108 (73.023), 5,510 (54.45), 6,155 (48.74).	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.

⁶ 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 (105.0)-----	250	Freeman Lang, 1258 North Barry Ave.
Sacramento....	W6XAF	2,938 (112.1), 5,870 (51.1)-----	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 Broadcast- ing 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 Broad- casting 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 (63.70)-----	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), 11,780 (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 (13.970).	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 Ver- mont St., Brooklyn, N. Y.
New York.....	W2XBR	6,020 (49.83)-----	1,000	Baruchrome Corp.
Richmond Hill..	W2XE	6,120 (49.02)-----	5,000	Atlantic Broadcasting Corp.
South Schenec- tady.	W2XAD	1,604 (187.03), 2,308 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.08), 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), 1,156 (260.9), 1,500 (200).	200,000	Do.
Do.....	W2XAF	1,604 (187.03), 2,308 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.08), 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, De- partment of Electrical En- gineering.
Harrison.....	W8XAL	6,060 (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 Bustle- ton).	W3XAU	6,060 (49.5), 9,590 (31.28)-----	500	Universal Broadcasting Co., 1940 Market St.
Washington: Spo- kano.	W7XAB	2,833 (105.0)-----	50	Symons Investment Co., Symons Bldg.
VESSEL MU-1 (yacht)....	W2XAO	2,833 (105.0)-----	100	A. H. Grebe & Co., Rich- mond Hill, N. Y.

VISUAL BROADCASTING STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Location of trans- mitter	Call sig- nal	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., 346-370 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
	First district:		Second district—Continued.
W1XA	Wianno, Mass.	W2XBN	Schenectady, N. Y.
W1XAB	Portland, Me.	W2XBO	New York Central R. R. locomotive No. 2724 and caboose No. 19517.
W1XAC	Providence, R. I.	W2XBP	Brooklyn, N. Y.
W1XAD	Springfield, Mass.	W2XBQ	No. 4876. ³
W1XAE	East Springfield, Mass.	W2XBR	New York, N. Y.
W1XAF	Boston, Mass.	W2XBS	Do.
W1XAG	Do.	W2XBT	Long Island City, N. Y.
W1XAM	South Manchester, Conn.	W2XBU	Beacon, N. Y.
W1XAN	Dartmouth, Mass. ¹	W2XBV	New York, N. Y. ¹
W1XAW	Medford, Mass.	W2XBW	Bound Brook, N. J. ¹
W1XAX	Southbridge, Mass.	W2XBX	NC-4616. ³
W1XAY	Lexington, Mass.	W2XBY	Jersey City, N. J.
W1XB	Somerville, Mass.	W2XBZ	NC-5050. ³
W1XC	Marion, Mass.	W2XC	Babylon, N. Y.
W1XE	Boston, Mass.	W2XCA	No. 767. ³
W1XF	Hartford, Conn.	W2XCB	Grasmere, N. Y.
W1XG	Do.	W2XCC	New Dorp, N. Y.
W1XI	Gloucester, Mass.	W2XCD	Jersey City, N. J.
W1XJ	Cambridge, Mass.	W2XCE	Brooklyn, N. Y.
W1XL	Hartford, Conn.	W2XCF	Yorktown Heights, N. Y.
W1XM	Cambridge, Mass.	W2XCG	Newark, N. J.
W1XN	Middletown, Conn.	W2XCH	Schenectady, N. Y. (airport).
W1XO	Cambridge, Mass.	W2XCI	New York, N. Y.
W1XR	Houlton, Me. ¹	W2XCL	Brooklyn, N. Y.
W1XS	Chestnut Hill, Mass.	W2XCM	Sayville, N. Y.
W1XT	Boston, Mass.	W2XCO	New York, N. Y.
W1XU	Pittsfield, Mass.	W2XCP	Allwood, N. J.
W1XV	Dartmouth, Mass.	W2XCQ	Rocky Point, N. Y. ¹
W1XY	Tilton, N. H.	W2XCR	Jersey City, N. J.
W1XZ	Worcester, Mass.	W2XCS	Port Washington, N. Y.
	Second district:	W2XCT	New York, N. Y.
W2XA	Rocky Point, N. Y.	W2XCW	Schenectady, N. Y.
W2XAA	New York, N. Y. ¹	W2XCX	Kearny, N. J.
W2XAB	Yonkers, N. Y.	W2XD	Tuckerton, N. J.
W2XAC	South Schenectady, N. Y.	W2XE	Richmond Hill, N. Y.
W2XAD	Do.	W2XF	Cliffwood, N. J.
W2XAE	Schenectady, N. Y.	W2XG	Ocean Township, N. J.
W2XAF	South Schenectady, N. Y.	W2XH	South Schenectady, N. Y.
W2XAG	Do.	W2XI	Schenectady, N. Y.
W2XAH	Do.	W2XJ	Deal, N. J.
W2XAI	Newark, N. J.	W2XK	South Schenectady, N. Y.
W2XAJ	Woodlawn Heights, N. Y.	W2XL	Newark, N. J.
W2XAK	Schenectady, N. Y.	W2XM	Glenville, N. Y.
W2XAL	Coytesville, N. J.	W2XN	New York, N. Y.
W2XAM	New Brunswick, N. J.	W2XO	South Schenectady, N. Y.
W2XAN	Great Neck, N. Y.	W2XP	Winfield, N. Y.
W2XAO	MU-1. ³	W2XQ	New York, N. Y.
W2XAP	New York, N. Y.	W2XR	Do.
W2XAP	X118E. ³	W2XS	Rocky Point, N. Y.
W2XAR	Rocky Point, N. Y.	W2XT	Do.
W2XAS	Do.	W2XU	New York, N. Y.
W2XAT	New York, N. Y.	W2XV	Long Island City, N. Y.
W2XAU	Jackson Heights, N. Y.	W2XW	Bronx, N. Y.
W2XAV	Ocean Township, N. J. ¹	W2XX	Ossining, N. Y.
W2XAW	South Schenectady, N. Y.	W2XY	Newark, N. J.
W2XAX	New York, N. Y. ¹	W2XZ	Bellmore, N. Y.
W2XAY	Do.		Third district:
W2XAZ	South Schenectady, N. Y.	W3XA	Baltimore, Md.
W2XB	New York, N. Y.	W3XAL	Bound Brook, N. J.
W2XBA	Newark, N. J.	W3XAU	Philadelphia, Pa.
W2XBB	Brooklyn, N. Y.	W3XAV	Washington, D. C.
W2XBC	Rocky Point, N. Y.	W3XB	Narbeth, Pa.
W2XBD	Garden City, N. Y.	W3XC	Philadelphia, Pa.
W2XBE	New York, N. Y. ¹	W3XD	Alexandria, Va.
W2XBH	Coney Island (Brooklyn), N. Y.	W3XE	Baltimore, Md.
W2XBI	Rocky Point, N. Y.	W3XF	Fredericksburg, Va.
W2XBJ	NC-8000. ³	W3XG	Do.
W2XBK	New York American (No. 4473). ¹	W3XH	Richmond, Va.
W2XBL	Snyville, N. Y.	W3XI	Baltimore, Md.
W2XBM	Water Mill, N. Y.		

¹ Portable.

² Vessel.

³ 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.		Seventh district:
W3XK	Silver Spring, Md.	W7XAA	C-268. ³
W3XL	Bound Brook, N. J.	W7XAB	Spokane, Wash. ¹
W3XN	Whippany, N. J.	W7XAO	Portland, Oreg.
W3XQ	Mountain Lakes, N. J.	W7XAP	Seventh radio district. ¹
W3XR	Hyattsville, Md.	W7XAQ	Do. ¹
W3XS	Philadelphia, Pa.	W7XAS	Wenatchee, Wash.
W3XT	Washington, D. C.	W7XAT	Cashmere, Wash.
W3XU	Do.	W7XB	Bozeman, Mont.
W3XW	Boonton, N. J.	W7XE	Seattle, Wash.
W3XX	Philadelphia, Pa.	W7XF	Do.
	Fourth district:	W7XS	Everett, Wash.
K4XK	San Juan, P. R.	W7XT	Boise, Idaho.
W4XE	Winter Park, Fla.		Eight district:
W4XG	Hialeah, Fla.	W8XA	Aircraft. ⁴
W4XM	NC-3314. ³	W8XAC	Rochester, N. Y.
W4XN	NC-5192. ³	W8XAG	Dayton, Ohio
W4XP	NC-8000. ³	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.	W8XB	Utica, Mich.
W5XJ	Houston, Tex.	W8XBC	Hazleton, Pa.
W5XL	Fort Morgan, Ala.	W8XBD	Oil City, Pa.
W5XM	Mobile, Ala.	W8XC	X-7654. ³
	Sixth district:	W8XD	Cleveland, Ohio
K6XBZ	Honolulu, Hawaii. ¹	W8XE	State College, Penn.
K6XK	Fort Shafter, Hawaii. ¹	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. ¹	W8XP	East Pittsburgh, Pa. ¹
W6XAC	San Rafael, Calif.	W8XR	Fordson, Mich.
W6XAE	Wilmington, Calif.	W8XS	East Pittsburgh, Pa.
W6XAF	Sacramento, Calif.		Ninth district:
W6XAH	Beverly Hills, Calif.	W9XA	Denver, Colo.
W6XAJ	Oakland, Calif.	W9XAA	Chicago, Ill.
W6XAL	Westminister, Calif.	W9XAD	Do.
W6XAM	Los Angeles, Calif.	W9XAE	Robbinsdale, Minn.
W6XAN	Do.	W9XAG	Chicago, Ill.
W6XAO	Piedmont, Calif.	W9XAO	Do.
W6XAP	Los Angeles, Calif.	W9XAZ	Iowa City, Iowa
W6XAQ	San Mateo County, Calif.	W9XB	Culver, Ind.
W6XAS	California. ¹	W9XC	Chicago, Ill.
W6XAU	Palo Alto, Calif.	W9XD	Gunnison, Colo.
W6XAV	Los Angeles, Calif.	W9XE	Golden, Colorado. ¹
W6XAX	Oakland, Calif. ¹	W9XF	Chicago, Ill.
W6XAY	Palo Alto, Calif.	W9XH	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. ¹	W9XL	Anoka, Minn.
W6XBH	Alma (Holy City), Calif. ¹	W9XM	Chicago, Ill.
W6XBJ	San Francisco, Calif.	W9XN	Naroca. ²
W6XBK	Do. ¹	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. ¹	W9XU	Council Bluffs, Iowa
W6XBY	San Leandro, Calif.	W9XV	Cartersville, Mo.
W6XD	Sixth radio district. ¹	W9XW	Hastings, Nebr.
W6XE	Orange, Calif.	W9XY	Chicago, Ill.
W6XF	Los Angeles, Calif.	W9XZ	Do. ¹
W6XG	Oakland, Calif.		Aircraft and portable
W6XH	Stanford University, Calif. ¹		United States, (throughout) ¹
W6XI	Bolinas, Calif.	W10XA	Do. ¹
W6XJ	San Diego, Calif. ¹	W10XB	Do. ¹
W6XM	Berkeley, Calif.	W10XC	Do. ¹
W6XN	Oakland, Calif.	W10XD	Do. ¹
W6XQ	Sixth radio district. ¹	W10XE	Do. ¹
W6XR	Salt Lake City, Utah. ¹	W10XF	X855E. ³
W6XT	San Francisco, Calif.	W10XG	NC105H. ²
W6XU	Bolinas, Calif.	W10XH	NX-7918. ³
W6XV	Palo Alto, Calif.	W10XI	NC-9746. ³
W6XW	Oakland, Calif.	W10XL	NC-9779. ³
W6XY	Los Angeles, Calif. ¹	W10XM	Western States, (in) ¹
W6XZ	San Francisco, Calif.	W10XN	NC-1592. ³

¹ Portable.² Vessel.³ Aircraft.⁴ 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:		Rhode Island: Providence.....	W1YF
Boston.....	W1YC	Vermont: Northfield.....	W1YD
Do.....	W1YS		
Worcester.....	W1YK		

THIRD DISTRICT

ALPHABETICALLY BY CALL SIGNALS

Call signal	Owner	Location and address
W3YA	Locmis Radio College.....	405 Ninth St. N.W., 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.....	511½ 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 signal	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, Oreg.
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, Oreg.
W7YK	Benson Polytechnic School.....	E. Twelfth and Hoyt Sts., Portland, Oreg.
W7YL	North Central High School.....	Howard and Nora Sts., Spokane, Wash.

ALPHABETICALLY BY STATES AND BY CITIES

Location	Call signal	Location	Call signal
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 signal	Owner	Location and address
W8YA	Pennsylvania State College, Department of Electrical Engineering.	College Campus, State College, Pa.
W8YP	Senecal 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 signal	Location	Call signal
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 signal	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 signal	Location	Call signal
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
A. C. Bedford.....	Standard Shipping Co.	Do.....	Transpn. Co.
Acme.....	Standard Transpn. Co.	Berkshire S. S. Co.	Berkshire S. S. Co.
Adam E. Cornelius.....	American S. S. Co.	Bethlehem Transpn.	Bethlehem Transpn.
Admiral Dewey.....	Pacific S. S. Co.	Corp.	Corp.
Admiral Farragut.....	Do.	Betterton.....	Associated Oil Co.
Admiral Schley.....	Do.	B. F. Affleck.....	Pittsburgh S. S. Co.
Adriatic.....	Interlake S. S. Co.	Bird City.....	American Seantic Line
A. E. Nettleton.....	Great Lakes S. S. Co.	(Inc.).	(Inc.).
A. E. R. Schneider.....	Morrow S. S. Co.	Birkenhead.....	Vacuum Oil Co.
A. F. Harvey.....	Pittsburgh S. S. Co.	Black Point.....	Black Point S. S. Co.
A. H. Herbert.....	Do.	Boston.....	Eastern S. S. Lines.
Alabama.....	Texas Co.	Bristol.....	Coastwise Transpn. Corp.
Do.....	Goodrich Transit Co.	Broad Arrow.....	Standard Transpn. Co.
Aladdin.....	Standard Transpn. Co.	Bylayl.....	Pocahontas S. S. Co.
Alameda.....	Alaska S. S. Co.	C. A. Canfield.....	Pan-American Petroleum
Alaska.....	Do.	Cadillac.....	& Transport Co.
Alaska Standard.....	Standard Oil Co. of California.	Calamares.....	Cleveland Cliffs S. S. Co.
Alexander McDougall.....	Pittsburgh S. S. Co.	California.....	United Fruit S. S. Corp.
Algonquin.....	Standard Transpn. Co.	Do.....	Texas S. S. Co.
All America.....	All America Cable Co.	Californian.....	American Line S. S. Corp.
Alleghany.....	Merchants & Miners	California Standard.....	American-Hawaiian S. S.
Alpena.....	Transpn. Co.	Co.	Co.
Altair.....	Wyandotte Transpn. Co.	Standard Oil Co. of California.	Standard Oil Co. of California.
Alva C. Dinkley.....	Standard Transpn. Co.	Calmar.....	Calmar S. S. Corp.
Amasa Stone.....	Pittsburgh S. S. Co.	Calumet.....	Interlake S. S. Co.
A. M. Byers.....	Interlake S. S. Co.	Camargo.....	Julius Fleischmann.
America.....	Reiss S. S. Co.	Cambria.....	Bethlehem Transpn.
American.....	United States Lines.	Camden.....	Corp.
American Banker.....	American-Hawaiian S. S.	Canopus.....	United Fruit Tanker
American Farmer.....	Co.	Captain A. F. Lucas.....	Corp.
American Legion.....	United States Lines.	Carmel A. Thompson.....	Interlake S. S. Co.
American Merchant.....	Do.	Caroline.....	Standard Oil Co. of California.
American Shipper.....	Do.	Carrabelle.....	Producers S. S. Co.
American Trader.....	Do.	Carrillo.....	Eldridge R. Johnson.
Amida.....	E. R. Behrend.	Cartago.....	Cuba Distilling Co.
Ancon.....	Panama Railroad Co.	Cassimir.....	United Fruit S. S. Corp.
Andrea F. Luckenbach.....	Luckenbach S. S. Co.	Catahoula.....	Do.
Andrew S. Upson.....	Kinney S. S. Co.	Cathwood.....	Cuba Distilling Co.
Angeline.....	Presque Isle Transpn. Co.	Cerro-Azul.....	Do.
Ara.....	William K. Vanderbilt.	Cerro-Ebano.....	Union Oil Co. of California.
Arcadia.....	Margaret S. Hardwick.	Cetus.....	Pan-American Petroleum
Areturus.....	Interlake S. S. Co.	Charles C. West.....	& Transport Co.
Argon.....	Standard Transpn. Co.	Charles E. Harwood.....	Do.
Argosy.....	American Seantic Line	Charles G. Black.....	Forest City S. S. Co.
Ario.....	(Inc.).	Charles Hubbard.....	Rockport Steamship Co.
Arizonan.....	Standard Transpn. Co.	Charles M. Everest.....	Pan-American Petroleum
Aryan.....	Williams S. S. Corp.	Charles M. Schwab.....	& Transport Co.
Ashtabula.....	Texas Co.	Charles Pratt.....	Standard Shipping Co.
Astral.....	Pennsylvania & Ontario	Charlie Watson.....	Great Lakes S. S. Co.
A. T. Kinney.....	Nav. Co.	Chatham.....	Vacuum Oil Co.
Atenas.....	Standard Transpn. Co.	Cherokee.....	Interlake S. S. Co.
Atlas.....	Kinney S. S. Co.	Chester O. Swain.....	Standard Shipping Co.
Augustus B. Wolvin.....	United Fruit S. S. Corp.	Chileop.....	Standard Oil Co. of California.
August Ziesing.....	Standard Transpn. Co.	Chilisco.....	Merchants & Miners
Aurora.....	Interlake S. S. Co.		Transpn. Co.
Australa.....	Pittsburgh S. S. Co.		Cherokee Seminole S. S.
Aztec.....	Standard Transpn. Co.		Corp.
Benjamin Brewster.....	Texas S. S. Co.		Standard Shipping Co.
Benson Ford.....	Albert C. Burrage.		Chile S. S. Co.
	Standard Shipping Co.		Do.
	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 Seantic Line (Inc.).	El Segundo.....	Standard Oil Co. of Cali- fornia.
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.	Emidio.....	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. Schoon- maker.....	Shenango Furnace Co.	Edward N. Saunders, jr.....	Calumet Transpn. Co.
Colonel James Pickands Columbian.....	Interlake S. S. Co. American-Hawaiian S. S. Co.	Esparta.....	United Fruit S. S. Corp.
Conneaut.....	Wyandotte Transpn. Co.	E. T. Bedford.....	Standard Shipping Co.
Coppename.....	United Fruit S. S. Corp.	Eugene J. Buffington.....	Pittsburgh S. S. Co.
Coralia.....	Nicholas-Universal S. S. Co.	Eugene W. Pargny.....	Do.
Cordova.....	Alaska S. S. Co.	Evangeline.....	Nova Scotia S. S. Corp.
Cornell.....	Pittsburgh S. S. Co.	Fairfax.....	Merchants & Miners Transpn. Co.
Corvus.....	Interlake S. S. Co.	F. A. Warner.....	Coos Bay Lumber Co.
Crampton Anderson.....	Pan-American Petroleum & Transport Co.	Fayette Brown.....	Stewart Furnace Co.
Crescent City.....	Nicholson-Universal S. S. Co.	F. B. Squire.....	Jenkins S. S. Co.
Cressida.....	Herman Oelrichs.	F. H. Hillman.....	Standard Oil Co. of Cali- fornia.
Crete.....	Interlake S. S. Co.	F. H. Wickett.....	Pan-American Petroleum and Transport Co.
C. Russell Hubbard.....	Columbia S. S. Co.	Finland.....	Great Lakes S. S. Co.
Cristobal.....	Panama Railroad Co.	F. J. Luckenbach.....	Luckenbach S. S. Co.
C. S. Robinson.....	Interlake S. S. Co.	Florence Luckenbach.....	Do.
Cubore.....	Calmar S. S. Corp.	F. Q. Barstow.....	Standard Shipping Co.
Cygnus.....	Interlake S. S. Co.	Francis E. House.....	Pittsburgh S. S. Co.
Dakotan.....	American-Hawaiian S. S. Co.	Frank G. Drum.....	Associated Oil Co.
Daniel J. Morrell.....	Cambria S. S. Co.	Frank H. Buck.....	Do.
David Z. Norton.....	Columbia S. S. Co.	Frank H. Goodyear.....	American S. S. Co.
Dean Emery.....	Pan-American Petroleum & Transport Co.	Franklin.....	Texas Co.
D. E. Callender.....	Morrow S. S. Co.	Franklin K. Lane.....	Pan-American Petroleum & Transport Co.
Delphine.....	Anna Dodge Dillman.	Frederic Ewing.....	Do.
Denmark.....	Great Lakes S. S. Co.	Frederic R. Kellogg.....	Do.
Derbyline.....	Texas Co.	Fred G. Hartwell.....	Franklin S. S. Corp.
Deroche.....	Union Oil Co. of Cali- fornia.	Fred W. Weller.....	Standard Shipping Co.
D. G. Kerr.....	Pittsburgh S. S. Co.	Freeman.....	Pocahontas S. S. Co.
D. G. Scofield.....	Standard Oil Co. of Cali- fornia.	Galena.....	Texas Co.
Diamond Cement.....	Pacific Coast S. S. Co.	Gargoyle.....	Vacuum Oil Co.
Dirigo.....	Texas Co.	General Markham.....	Gladstone Transpn. Co.
District of Columbia.....	Standard Oil Co. of Cali- fornia.	Gen. Orlando M. Poe.....	Pittsburgh S. S. Co.
Dixie.....	Southern Pacific Co.	George F. Baker.....	Do.
Dixie Arrow.....	Standard Transpn. Co.	George F. Rand.....	American S. S. Co.
D. M. Clemson.....	Pittsburgh S. S. Co.	George G. Crawford.....	Pittsburgh S. S. Co.
D. O. Mills.....	Interlake S. S. Co.	George G. Henry.....	Pan-American Petroleum & Transport Co.
Dorchester.....	Merchants & Miners Transpn. Co.	Geo. H. Jones.....	Standard Shipping Co.
Dorothy Alexander.....	Pacific S. S. Co.	George M. Humphrey.....	Kinsman Transit Co.
Dorothy Luckenbach.....	Luckenbach S. S. Co.	George Stephenson.....	Pittsburgh S. S. Co.
Douglas Houghton.....	Pittsburgh S. S. Co.	George Washington.....	Eastern S. S. Lines (Inc.).
Dugannon.....	Texas Co.	Do.....	United States Lines.
Eagle.....	Standard Transpn. Co.	George W. Barnes.....	Pan-American Petroleum & Transport Co.
E. A. S. Clarke.....	Interlake S. S. Co.	George W. Mead.....	Newaygo Tug Line (Inc.).
Eastern Guide.....	Pacific Coast S. S. Co.	George W. Perkins.....	Pittsburgh S. S. Co.
Eastern States.....	Detroit & Cleveland Nav. Co.	Georgian.....	Pacific Atlantic S. S. Co.
East Indian.....	Ford Motor Co.	Do.....	Williams S. S. Corp.
E. C. Collins.....	Pittsburgh S. S. Co.	Ginger Dot, jr.....	Frank B. Stearns.
Ecuador.....	Panama Mail S. S. Co.	Glenpool.....	Standard Shipping Co.
Edgar F. Luckenbach.....	Luckenbach S. S. Co.	Grand Haven.....	Grand Trunk & Mil- waukee Car Ferry Co.
Edward A. Uhrig.....	Calumet Transpn. Co.	Grand Island.....	Cleveland Cliffs S. S. Co.
Edward L. Doheny.....	Pan-American Petroleum & Transport Co.	Grand Rapids.....	Grand Trunk & Mil- waukee Car Ferry Co.
Edward Luckenbach.....	Luckenbach S. S. Co.	Greater Detroit.....	Detroit & Cleveland Navigation Co.
Edward Y. Townsend.....	Cambria S. S. Co.	Greater Buffalo.....	Do.
		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.
Gulfwing.....	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 Transpn. 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.....	Nicholson-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 Ken- nedy.....	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 Transpn. 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 Steinbrenner.....	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.	Junlata.....	Great Lakes Transit Corp.
H. M. Flagler.....	Standard Shipping Co.	Jupiter.....	Interlake S. S. Co.
H. M. Storey.....	Standard Oil Co. of Cali- fornia.	Kansan.....	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.	Kewanee.....	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 Cali- fornia.	K. R. Kingsbury.....	Standard Oil Co. of Cali- fornia.
Hugh Kennedy.....	American S. S. Co.	LaBelle.....	LaBelle S. S. Co.
Huron.....	Wyandotte Transpn. Co.	LaBrea.....	Union Oil Co. of Cali- fornia.
I. C. White.....	Pan-American Petroleum & Transport Co.	Lackawanna.....	Bethlehem Transpn. Corp.
Illinois.....	Goodrich Transit Co.	Lagonda.....	Interlake S. S. Co.
Do.....	Texas Co.	Lake Ormoc.....	Ford Motor Co.
India Arrow.....	Standard Transpn. Co.	La Perla.....	United Fruit S. S. Corp.
Iowan.....	American-Hawaiian S. S. Co.	La Placentia.....	Union Oil Co. of Cali- fornia.
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 Transpn. Corp.
Ishpeming.....	Cleveland Cliffs S. S. Co.	Lobee.....	Standard Transpn. Co.
J. A. Campbell.....	Interlake S. S. Co.	Lohigh.....	Bethlehem Transpn. 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 Transpn. 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 Cali- fornia.	Liebre.....	Standard Transpn. Co.
J. A. Moffett, jr.....	Standard Shipping Co.	Lightburne.....	Texas Co.
Japan Arrow.....	Standard Transpn. Co.	Lillian Luckenbach.....	Luckenbach S. S. Co.
Java Arrow.....	Do.	Limon.....	United Fruit S. S. Corp.
Jay C. Morse.....	Interlake S. S. Co.	Llo.....	Standard Transpn. Co.
J. B. John.....	Petoskey Transpn. Co.	Livingstone Roo.....	Standard Shipping Co.
J. C. Fitzsimmons.....	Standard Oil Co. of Cali- fornia.		
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.	North American.....	Chicago, Duluth & Georgian Bay Transit Co.
Los Angeles.....	Union Oil Co. of California.	Northern Light.....	John Borden.
Louisiana.....	Texas Co.	Northland.....	Eastern S. S. Lines (Inc.).
Louis R. Davidson.....	American S. S. Co.	Northwestern.....	Alaska S. S. Co.
Louis W. Hill.....	Producers S. S. Co.	Norway.....	Great Lakes S. S. Co.
Lubrico.....	Standard Oil Co. of California.	Nosa Chief.....	New Orleans & South America S. S. Co.
Lyman C. Smith.....	Great Lakes S. S. Co.	Nosa King.....	Do.
Lynford E. Geer.....	Reiss S. S. Co.	Nosa Prince.....	Do.
M. A. Bradley.....	Nicholson-Universal S. S. Co.	Nosa Queen.....	Do.
Madison.....	Grand Trunk & Milwaukee Car Ferry Co.	Nourmahal.....	Vincent Astor.
Makiki.....	Matson Navigation Co.	Oakey L. Alexander.....	Pocahontas S. S. Co.
Mala.....	Do.	Oakmar.....	Clamar S. S. Corp.
Malama.....	Do.	Occidental.....	Texas S. S. Co.
Malietoa.....	Pittsburgh S. S. Co.	Octorara.....	Great Lakes Transit Corp.
Maliko.....	Matson Navigation Co.	Odanah.....	Interlake S. S. Co.
Malolo.....	Do.	Ohioan.....	American-Hawaiian S. S. Co.
Mana.....	Do.	Olean.....	Vacuum Oil Co.
Manitowoc.....	Newaygo Tug Line (Inc.).	Oleum.....	Union Oil Co. of California.
Manoa.....	Matson Navigation Co.	Oregon.....	States S. S. Co.
Manukai.....	Do.	Oregonian.....	American-Hawaiian S. S. Co.
Manulani.....	Do.	Oscar D. Bennett.....	Pan-American Petroleum & Transport Co.
Margo.....	B. A. Massee.	O. S. McFarland.....	Lakewood S. S. Co.
Maricopa.....	Pittsburgh S. S. Co.	O. T. Waring.....	Standard Shipping Co.
Marquette.....	Cleveland Cliffs S. S. Co.	Outagamie.....	Standard Oil Co. of Indiana.
Martha E. Ellen.....	Frank C. Wright.	Panaman.....	American-Hawaiian S. S. Co.
Mary D.....	Pacific American Fisheries.	Pan-America.....	Munson S. S. Line.
Maryland.....	Bethlehem Transpn. Corp.	Panail.....	Pan-American Petroleum & Transport Co.
Massmar.....	Calmar S. S. Corp.	Papoose.....	Petroleum Navigation Co.
Mataafa.....	Pittsburgh S. S. Co.	Parismina.....	United Fruit S. S. Corp.
Matsonia.....	Matson Navigation Co.	Pastores.....	Do.
Matthew Andrews.....	Kinsman Transit Co.	Pat Doheny.....	Petroleum Securities Co.
Maul.....	Matson Navigation Co.	Pathfinder.....	Interlake S. S. Co.
Mauna Ala.....	Do.	Patricia.....	Vincent Astor.
Maunalei.....	Do.	Paul H. Harwood.....	Pan-American Petroleum & Transport Co.
Maunaloa.....	Pittsburgh S. S. Co.	Paul Luckenbach.....	Luckenbach S. S. Co.
Maunawili.....	Matson Navigation Co.	Paulsboro.....	Vacuum Oil Co.
McGilvray Shiras.....	Pittsburgh S. S. Co.	Paul Shoup.....	Associated Oil Co.
Memory III.....	A. E. Fitkin.	Peacock.....	U. S. S. B.
Mericos H. Whittier.....	Associated Oil Co.	Pegasus.....	Interlake S. S. Co.
Metapan.....	United Fruit S. S. Corp.	Pennmar.....	Calmar S. S. Corp.
Mexican.....	American-Hawaiian S. S. Co.	Pennsylvania.....	Texas Co.
M. F. Elliott.....	Standard Shipping Co.	Pennsylvanian.....	American-Hawaiian S. S. Co.
Michigan.....	Cleveland Cliffs S. S. Co.	Pennsylvania Sun.....	Sun Oil Co.
Milwaukee.....	Grand Trunk & Milwaukee Car Ferry Co.	Penobscot.....	Penobscot S. S. Co.
Minnekahda.....	Atlantic Transport Co.	Pentecost Mitchell.....	Pittsburgh S. S. Co.
Minnequa.....	American Scantic Line (Inc.).	Percival Roberts, jr.....	Do.
Minnesotan.....	American-Hawaiian S. S. Co.	Pere Marquette 15.....	Pere Marquette Ry. Co.
Missourian.....	Do.	Pere Marquette 17.....	Do.
Mizpah.....	Eugene F. MacDonald.	Pere Marquette 18.....	Do.
Mohawk.....	Clyde S. S. Co.	Pere Marquette 19.....	Do.
Mojave.....	Standard Transpn. Co.	Pere Marquette 20.....	Do.
Montanan.....	American-Hawaiian S. S. Co.	Pere Marquette 21.....	Do.
Montebello.....	Union Oil Co. of California.	Pere Marquette 22.....	Do.
Munising.....	Cleveland Cliffs S. S. Co.	Perseus.....	Interlake S. S. Co.
Nebraskan.....	American-Hawaiian S. S. Co.	Peter A. B. Widener.....	Pittsburgh S. S. Co.
Negaunee.....	Cleveland Cliffs S. S. Co.	Peter Reiss.....	Reiss S. S. Co.
Neptune.....	Interlake S. S. Co.	Peter White.....	Presque Isle Transpn. Co.
Nevada.....	States S. S. Co.	Philip Minch.....	Kinsman Transit Co.
Nevadan.....	American-Hawaiian S. S. Co.	Pioneer.....	Standard Shipping Co.
New Jersey.....	Texas Co.	Plymouth.....	Plymouth S. S. Co.
New York.....	Eastern S. S. Lines.	Point Breeze.....	Atlantic Refining Co.
Do.....	Texas Co.	Polarine.....	Standard Shipping Co.
Norfolk.....	Coastwise Transpn. Corp.	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 Seantie 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 Bessemer	Do.
Presque Isle	Presque Isle Transpn. Co.	Sir Wm. Fairbairn	Do.
Princeton	Pittsburgh S. S. Co.	Sir William Siemens	Do.
Do.	Standard Shipping Co.	Sixaola	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	Standard 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, Jr.	American S. S. Co.
Robert Luckenbach	Luckenbach S. S. Co.	Thomas Britt	Lakewood S. S. Co.
Robert W. E. Bunsen	Pittsburgh S. S. Co.	Thomas F. Cole	Pittsburgh S. S. Co.
Robert W. Stewart	Standard Oil Co. of Indiana.	Thomas H. Wheeler	Standard Shipping Co.
Rochester	Vacuum Oil Co.	Thomas Lynch	Pittsburgh S. S. Co.
Rose City	Rose City S. S. Co.	Thos. O'Shaugnessy	Jenkins S. S. Co.
Royal Arrow	Standard Transpn. Co.	Tiger	Standard Transpn. Co.
R. R. Richardson	Pittsburgh S. S. Co.	Timberman	Pillsbury and Curtis.
Ruth Alexander	Robert Dollar Co.	Tionesta	Great Lakes Transit Corp.
R. W. Stewart	Pan-American Petroleum & Transport Co.	Tlives	United Fruit S. S. Corp.
Saga	Chas. S. Payson.	T. J. Williams	Standard Shipping Co.
Sagaporack	American Seantie Line (Inc.).	Tolca	United Fruit S. S. Co.
Sage Brush	Shepard S. S. Co.	Tulsagas	Associated Oil Co.
Saguache	American Seantie Line (Inc.).	Turrialba	United Fruit S. S. Corp.
Samuel F. B. Morse	Pittsburgh S. S. Co.	Ulua	Do.
Samuel H. Squire	Forest City S. S. Co.	Utacarbon	Union Oil Co. of California.
Samuel Mather	Interlake S. S. Co.	Utowana	Allison V. Armour.
San Jose	United Fruit S. S. Corp.	Vacuum	Vacuum Oil Co.
San Mateo	Do.	Vagabondia	W. L. Mellon.
Sansoma	Nicholson-Universal S. S. Co.		
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	William McLauchlan.....	Interlake S. S. Co.
Do.....	Corp.	William P. Cowan.....	Standard Oil Co. of Indi- ana.
Virginian.....	Texas Co.	Willfarro.....	Williams S. S. Co.
Walter A. Luckenbach.....	American-Hawaiian S.	William P. Palmer.....	Pittsburgh S. S. Co.
Walter Jennings.....	S. Co.	William P. Snyder, jr.	Shenango Furnace Co.
Warwick.....	Luckenbach S. S. Co.	William R. Linn.....	Pittsburgh S. S. Co.
Washington.....	Standard Shipping Co.	William Nelson.....	J. A. Paisley S. S. Co.
W. C. Richardson.....	Union Oil Co. of Cali- fornia.	William T. Roberts.....	American S. S. Co.
W. C. Teagle.....	States S. S. Co.	Willkeno.....	Williams S. S. Co.
W. D. Crawford.....	Columbia S. S. Co.	Willpolo.....	Do.
Western States.....	Standard Shipping Co.	Willzipo.....	Do.
Western World.....	Virginia S. S. Co.	Wind Rush.....	Shepard S. S. Co.
W. H. Libby.....	Detroit & Cleveland	Wisconsin.....	Goodrich Transit Co.
W. H. Telford.....	Navigation Co.	W. J. Hanna.....	Standard Shipping Co.
Wilhelmina.....	Munson S. S. Line.	W. L. Steed.....	Pan-American Petroleum & Transport Co.
Willboro.....	Standard Shipping Co.	Wm. Rockefeller.....	Standard Shipping Co.
Willet.....	Do.	Worrell Clarkson.....	Kinsman Transit Co.
William A. Amberg.....	Matson Navigation Co.	W. S. Miller.....	Standard Oil Co. of Cali- fornia.
William A. McGonagle.....	Williams S. S. Co.	W. S. Rheem.....	Do.
William A. Reiss.....	U. S. S. B.	Wyandotte.....	Wyandotte Transpn. Co.
William B. Davock.....	Producers 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 Sur- vey.
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. ¹	Footo.....	Do.
Branch.....	Do.	Ford, John D.....	Do.
Breck.....	Do.	Fox.....	Do.
Breckinridge.....	Do.	Gamble.....	Do.
Breese.....	Do.	General Royal T. Frank.....	U. S. Army.
Brooks.....	Do.	Gillis.....	U. S. Navy.
Broome.....	Do.	Gilmer.....	Do.
Bruce.....	Do.	Goff.....	Do.
Buchanan.....	Do.	Goldsborough.....	Do.
Bulmer.....	Do.	Grant.....	U. S. Army.
Burns.....	Do.	Greene.....	U. S. Navy.
Burnes, John Francis.....	Do.	Greer.....	Do.
Bush.....	Do.	Gregory.....	U. S. Army.
Caldwell.....	Do.	Gresham.....	U. S. Coast Guard.
California.....	Do.	Gridley.....	U. S. Navy.
Cambrai.....	U. S. Army.	Guide.....	Coast and Geodetic Sur- vey.
Carrabasset.....	U. S. Navy.	Gwin.....	U. S. Navy.
Caso.....	Do.	Hale.....	Do.
Cassin.....	U. S. Coast Guard.	Hamilton.....	Do.
Cedar.....	Bureau of Lighthouses.	Hamilton, Paul.....	Do.
Champlain.....	U. S. Coast Guard.	Haraden.....	Do.
Champlin.....	U. S. Navy.	Harding.....	Do.
Chandler.....	Do.	Hart.....	Do.
Chase.....	Do.	Hatfield.....	Do.
Chateau Thierry.....	U. S. Army.	Hazelwood.....	Do.
Chelan.....	U. S. Coast Guard.	Henshaw.....	Do.
Chew.....	U. S. Navy.	Herbert.....	Do.
Childs.....	Do.	Herndon.....	Do.
Cincinnati.....	Do.	Hibiscus.....	Bureau of Lighthouses.
Claxton.....	Do.	Hogan.....	U. S. Navy.
Clemson.....	Do.	Hopewell.....	Do.
Coghlan.....	Do.	Hopkins.....	Do.
Cole.....	Do.	Hovey.....	Do.
Colhoun.....	Do.	Howard.....	Do.
Colorado.....	Do.	Hulbert.....	Do.
Concord.....	Do.	Hull.....	Do.
Conner.....	Do.	Humphreys.....	Do.
Converse.....	Do.		
Corry.....	Do.		
Cowell.....	Do.		

¹ 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.
Kukui.....	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.
McKean.....	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:

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

CORRECTION TO BE APPLIED TO RADIO BEARING TO CONVERT TO MERCATOR BEARING—DIFFERENCE OF LONGITUDE

[This table should not be confused with a calibration table]

Mid- dle lati- tude	1°	1°.5	2°	2°.5	3°	3°.5	4°	4°.5	5°	5°.5	6°	6°.5	7°	7°.5	8°	8°.5	9°	9°.5	10°	10°.5	11°	11°.5	12°	12°.5	13°	13°.5	14°	14°.5
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5
5	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6
6	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.8
7	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.9
8	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	0.9	1.0	1.0
9	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.1
10	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2
11	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4
12	0.1	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5
13	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7
14	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.7	1.8
15	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.8	1.9
16	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	1.9	2.0	2.0
17	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.8	1.9	2.0	2.1	2.2
18	0.2	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	2.0	2.0	2.1	2.2	2.3
19	0.2	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.4
20	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.5
21	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.6
22	0.2	0.3	0.4	0.5	0.6	0.6	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8
23	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.8	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9
24	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
25	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1
26	0.2	0.3	0.4	0.6	0.6	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.1	3.1
27	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.8	1.9	2.1	2.2	2.3	2.4	2.5	2.6	2.8	2.9	3.0	3.1	3.2	3.4
28	0.2	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.5	1.6	1.8	1.9	2.0	2.1	2.2	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.2	3.4	3.5
29	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.1	2.2	2.3	2.4	2.6	2.7	2.8	3.0	3.1	3.2	3.3	3.4	3.6
30	0.2	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.6	1.8	1.9	2.0	2.1	2.2	2.4	2.5	2.7	2.8	2.9	3.0	3.2	3.3	3.4	3.6	3.7
31	0.2	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.1	2.2	2.3	2.5	2.6	2.7	2.9	3.0	3.1	3.3	3.4	3.5	3.7	3.8
32	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.7	1.8	2.0	2.1	2.2	2.4	2.5	2.6	2.8	3.0	3.1	3.2	3.4	3.5	3.6	3.8	3.9
33	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.4	1.5	1.6	1.8	1.9	2.1	2.2	2.3	2.4	2.6	2.7	2.9	3.0	3.2	3.3	3.4	3.6	3.8	3.9	4.0
34	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.1	2.2	2.4	2.5	2.6	2.8	3.0	3.1	3.3	3.4	3.6	3.7	3.8	4.0	4.1
35	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.9	2.0	2.2	2.3	2.4	2.6	2.7	2.9	3.1	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.3
36	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.6	1.8	1.9	2.1	2.2	2.4	2.5	2.6	2.8	2.9	3.1	3.3	3.4	3.6	3.7	3.9	4.1	4.2	4.3
37	0.3	0.4	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.6	1.8	2.0	2.1	2.2	2.4	2.6	2.7	2.9	3.0	3.2	3.4	3.5	3.7	3.8	4.0	4.1	4.3	4.5
38	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.2	2.3	2.5	2.6	2.8	2.9	3.1	3.3	3.4	3.6	3.8	3.9	4.1	4.2	4.4	4.6
39	0.3	0.5	0.6	0.8	1.0	1.1	1.2	1.4	1.6	1.7	1.9	2.1	2.2	2.4	2.5	2.7	2.8	3.0	3.2	3.3	3.5	3.7	3.8	4.0	4.2	4.3	4.5	4.6
40	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.6	1.8	1.9	2.1	2.2	2.4	2.6	2.7	2.9	3.1	3.2	3.4	3.6	3.8	3.9	4.1	4.2	4.4	4.6	4.8
41	0.3	0.5	0.6	0.8	1.0	1.2	1.3	1.5	1.6	1.8	2.0	2.1	2.3	2.5	2.6	2.8	3.0	3.1	3.3	3.5	3.6	3.8	4.0	4.2	4.3	4.5	4.7	4.8
42	0.3	0.5	0.7	0.8	1.0	1.2	1.3	1.5	1.7	1.8	2.0	2.2	2.3	2.5	2.7	2.8	3.0	3.2	3.4	3.6	3.7	3.9	4.1	4.2	4.4	4.6	4.8	4.9

43	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
44	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
45	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
46	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
47	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
48	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
49	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
50	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
51	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
52	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
53	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
54	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
55	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
56	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
57	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
58	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
59	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
60	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
61	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
62	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
63	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
64	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
65	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
66	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
67	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
68	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
69	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
70	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

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 abbreviation 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 _ _ _ .	Apostrophe.....	.. _ . _ . .
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)	End of each message (cross).....	.. _
Å or Ä (Spanish-Scandinavian)	Transmission finished (end of work) (conclusion of correspondence).....	.. _
CH (German-Spanish)		
É (French)		
Ñ (Spanish)		
Ö (German)		
Ü (German)		
1 . _ _ _ _		
2 . . _ _ _		
3 . . . _ _		
4 _		
5		
6 _		
7 _		
8 _ _ . . .		
9 _ _ _ . .		
0 _ _ _ _ _		

LIST OF ABBREVIATIONS TO BE USED IN RADIO TRANSMISSIONS—
Q CODE¹

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.
QRQ	Must I send faster?.....	Send faster (..... words per minute).
QRS	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.

¹ 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
QSSX	Does my wave length (frequency) vary?-----	Your wave length (frequency) varies.
QSSY	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.
QSSZ	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 radiocompass 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 radiocompass 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 radiocompass 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 -----
QAC	Are you returning to -----?	Go to ----- or ----- I am returning to ----- or -----
QAD	At what time did you leave -----? (place of departure).	Return to ----- 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

Abbreviation	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 ----- kilocycles)?	Continue to listen for me (or for -----), on ----- meters (or ----- kilocycles).
QAA	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

Abbreviation	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.)
BN	"All between -----" (To be used after a question mark to request a repetition.)
BQ	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.
DJ	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 (600 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 mark 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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