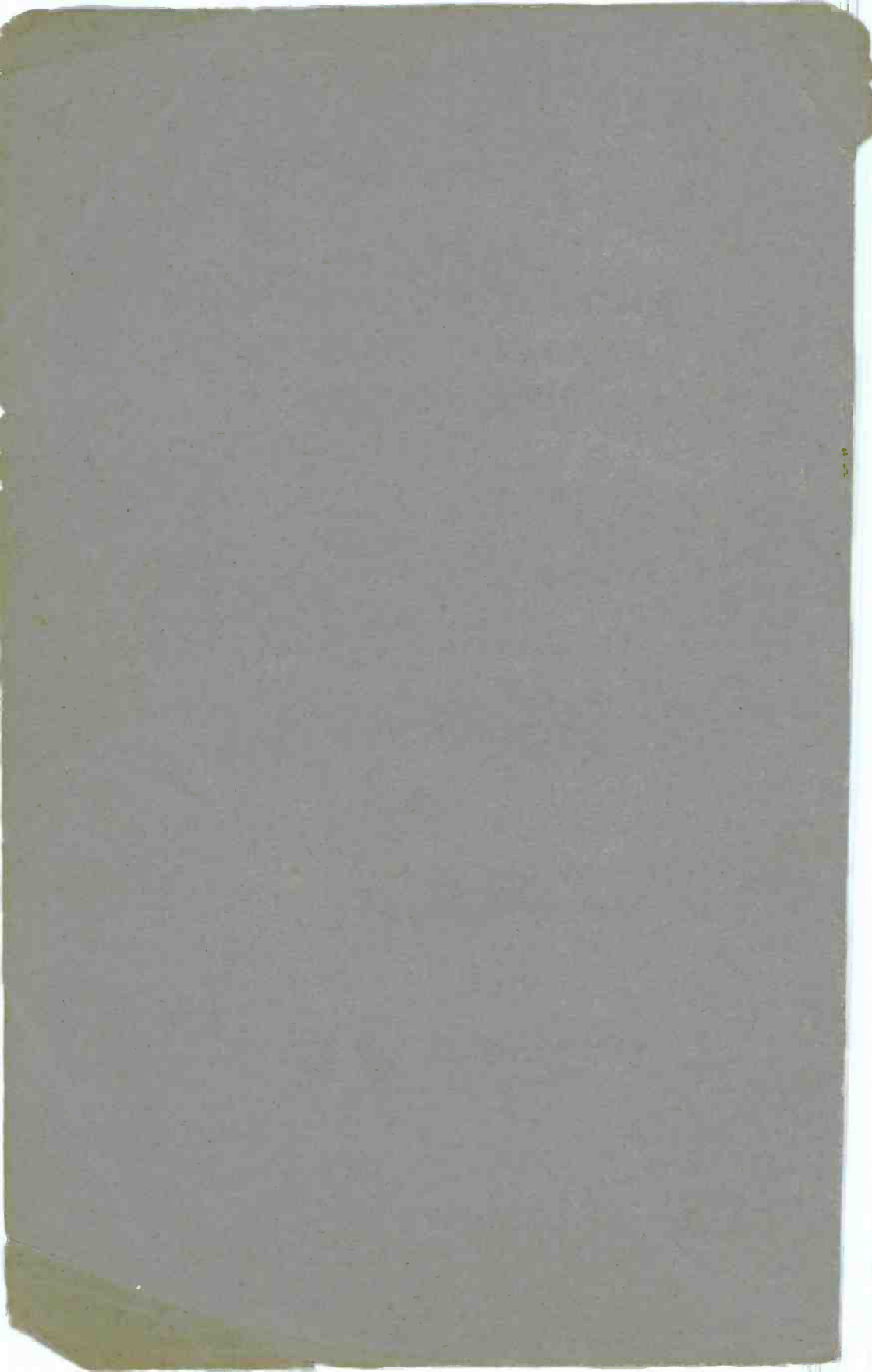


**COMMERCIAL AND GOVERNMENT
RADIO STATIONS
OF THE UNITED STATES**

EDITION JUNE 30, 1930

**U. S. DEPARTMENT OF COMMERCE
RADIO DIVISION**



U. S. DEPARTMENT OF COMMERCE
RADIO DIVISION

COMMERCIAL AND GOVERNMENT
RADIO STATIONS OF THE
UNITED STATES

EDITION JUNE 30, 1930



UNITED STATES
GOVERNMENT PRINTING OFFICE
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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 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.

In looking for particulars of 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:

- 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:

- A=Aircraft.
- 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 (call signals) 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.	QAA-QQZ	Union of Soviet Socialist Republics (U. S. S. R.).
CPA-CPZ	Bolivia.	RVA-RVZ	Persia.
CQA-CQZ ¹	} Portuguese colonies.	RXA-RXZ	Republic of Panama.
CRA-CRZ		Portugal.	RYA-RYZ	Lithuania.
CSA-CUZ	Rumania.	SAA-SMZ	Sweden.
CVA-CVZ	Uruguay.	SPA-SRZ	Poland.
CWA-CXZ	Monaco.	STA-STZ ¹	} Egypt.
CZA-CZZ	Gormany	SUA-SUZ		Greece.
D	Spain.	SVA-SVZ	Turkey.
EAA-EHZ	Irish Free State.	TAA-TCZ	Iceland.
EIA-EIZ	Liberia.	TFA-TFZ	Guatemala.
ELA-ELZ	Estonia.	TGA-TGZ	Costa Rica.
ESA-ESZ	Ethiopia.	TIA-TIZ	Territory of the Saar.
ETA-ETZ	France and colonies and protectorates.	TSA-TSZ	Hedjaz.
F	Great Britain.	UHA-UHZ	Dutch East Indies.
G	Hungary.	UIA-UKZ	Luxemburg.
HAA-HAZ	Switzerland.	ULA-ULZ	Kindgom of Serbs, Croats and Slovenes (Yugoslavia).
HBA-HBZ	Ecuador.	UNA-UNZ	Austria.
HCA-HCZ	Haiti.	UOA-UOZ	} Canada.
HHA-HHZ	Dominican Republic.	UWA-UWZ		Australia.
HIA-HIZ	Colombia.	VAA-VGZ	Newfoundland.
HJA-HKZ	Hondouras.	VHA-VMZ	British colonies and protectorates.
HRA-HRZ	Siam.	VOA-VOZ	British India.
HSA-HSZ	Italy and colonies.	VPA-VSZ	United States of America.
I	Japan.	VTA-VWZ	Mexico.
J	United States of America.	W	China.
LAA-LNZ	Norway.	XAA-XFZ	Afghanistan.
LOA-LVZ	Argentina.	XGA-XUZ	New Hebrides.
LZA-LZZ	Bulgaria.	YAA-YAZ	Iraq.
M	Great Britain.	YHA-YHZ	Latvia.
N	United States of America.	YIA-YIZ	Free City of Danzig.
OAA-OBZ	} Peru.	YLA-YLZ	Nicaragua.
OCA-OCZ ¹		Finland.	YMA-YMZ	Republic of El Salvador.
OFA-OGZ ¹	Czechoslovakia.	YNA-YNZ	Venezuela.
OHA-OHZ	Belgium and colonies.	YSA-YSZ	Albania.
OKA-OKZ	Denmark.	ZAA-ZAZ	British colonies and protectorates.
ONA-OTZ	Netherlands.	ZBA-ZBZ ¹	New Zealand
OUA-OZZ	Curacao.	ZKA-ZMZ	Paraguay.
PAA-PIZ	Dutch East Indies.	ZPA-ZPZ	Union of South Africa.
PJA-PJZ		ZSA-ZUZ	
PKA-POZ			

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) are assigned to portable stations which may operate in more than one radio district and to aircraft.

RADIO STATIONS OF THE WORLD

The International Bureau of the Telegraph Union, Radiotelegraph Service, Berne, Switzerland, has for distribution the following-named publications:

Fixed and land stations, stations performing special services (includes radio-compass, radiobeacon, and stations transmitting time signals, meteorological information, notices to mariners, and press notices), ship stations, aircraft stations, broadcasting stations, and list of land and ship stations by call signals. The Berne Bureau also publishes a list of land stations in order of frequencies.

The price of these publications issued this year has been changed. When available, information will be published in the Radio Service Bulletin or they may be obtained upon application to this office. 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.

RADIO DIVISION, DEPARTMENT OF COMMERCE

COMMERCIAL LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
Aberdeen, Wash.	FC	KZE	405 (740), 442 (680), 462 (650), 500 (600)	PG	(X)	R. M. C. A.
Aberdeen, Tex.	F.A., FX	KGSA	278 (1,080), 3,088 (97.15), 3,460 (86.7), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)	P	(X)	Aeronautical Radio (Inc.).
Abulug, P. I., radio (Cagayan)	FC	KAU	300 (1,000), 600 (600)	PG	(?)	Philippine insular government.
Akron, N. Y.	FX	WNDF	2,310 (90.63), 4,565 (65.71), 4,585 (65.43), 4,605 (65.14), 4,615 (65), 4,625 (64.86), 4,635 (64.72), 4,645 (64.58), 4,655 (64.44), 4,665 (64.30), 4,675 (64.17), 4,685 (64.03), 4,695 (63.89), 4,705 (63.76), 5,095 (58.88), 5,105 (58.76), 5,115 (58.65), 5,125 (58.53), 5,135 (58.42), 5,145 (58.30), 5,155 (58.19), 5,165 (58.08), 5,175 (57.97), 5,185 (57.85), 5,195 (57.74), 5,205 (57.63), 5,885 (50.97), 5,900 (50.84)	PR	(?)	Philippine insular government. Universal Wireless Communications Co. (Inc.).
Akron, Ohio.	FX	WTF	7,775 (38.58), 19,780 (15.167)	PR	X	United States Liberia Radio Corp.
Akunui, Alaska (Aleutian Islands)	FC	KMW	445 (675), 500 (600)	P	(X)	The Warehouse Co.
Alabur, P. I., radio (Tayabas)	F.C., FX	KBA	273 (1,100) to 500 (600), 400 (750)	PG, PR	(X)	Philippine insular government.
Alameda, Calif.	FC	KLR	2,445 (122.65)	P	(X)	Harbor Tug & Barge Co.
Albuquerque, N. Mex.	FX	KGSD	278 (1,080), 3,070 (97.71), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)	P	X	Aeronautical Radio (Inc.).
Do.	F.A., AB	KSI	278 (1,080), 414 (725)	P	X	Transcontinental Air Transport (Inc.).
Aliak, Alaska (Kodiak Island)	F.C., FX	KYL	180 (1,665), 429 (700), 500 (600)	P	X	Alaska Packers Association.
Allentown, Pa.	FX	WHC	3,184 (94.2)	P	X	Pennsylvania Power & Light Co.
Alpena, Mich.	FX	WNO	143 (2,100), 163 (1,840) 410 (730), 425 (705), 454 (660)	P	X	Michigan Wireless Telegraph Co.
Altoona, Pa.	FC	WHL	250 (1,200)	P	X	Pennsylvania Railroad.
Amarillo, Tex.	FX	KGSE	278 (1,080), 3,070 (97.71), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)	P	X	Aeronautical Radio (Inc.).
Anchorage, Alaska, radio.	FC	KWL	200 (1,500), 500 (600)	PG	(X)	Alaska Railroad.
Annette Island, Alaska, radio.	F.C., FX	KFA	256 (1,170), 274 (1,095), 425 (705), 500 (600)	PG, PR	(X)	R. M. C. A.
Apart, P. I., radio (Cagayan)	F.C., FX	KAW	273 (1,100) to 545 (550), 353 (850)	PG, PR	(?)	Philippine insular government.
Arlington, Tenn.	FX	WNWQ	5,855 (51.23)	P	(N)	Universal Wireless Communications Co. (Inc.).
Atlanta, Ga.	FX	WAI	95 (3,160), 99 (3,030)	PR	X	American Radio News Corporation.
Atlanta, Ga. (Chandler Field)	F.A., FX	WQDP	278 (1,080), 3,484 (86.10), 5,600 (53.57)	P	X	S. A. T. Flying Service (Inc.).
Atlantic City, N. J. (municipal airport)	F.A., FX	WGDW	278 (1,080), 2,662 (112.69), 3,070 (97.71), 5,600 (53.72)	P	X	New York Airways (Inc.).
Auburn, N. Y.	FX	WPDN	1,712 (175.23)	P	X	City of Auburn.
Aurora, Ill.	F.A., FX	WQDU	278 (1,080), 3,172 (94.57), 5,600 (53)	P	X	Boeing Air Transport (Inc.).
Avalon, Calif. (Catalina Island)	F.A., FX	KGTM	278 (1,080), 3,070 (97.71), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)	P	X	Aeronautical Radio (Inc.).
Bachof, Alaska.	FX	KUD	180 (1,665), 429 (700), 500 (600)	P	X	Alaska Packers Association.
Bacuit, P. I., radio	FX	KBC	266.7 (1,125), 363.6 (825), 500 (600)	PG	(?)	Philippine insular government.
Bagram, P. I.	F.A., FC	KBB	272 (1,100), 333 (900), 500 (600)	PG	(?)	Do.
Bakersfield, Calif. (Kern County Airport)	F.A.	KQX	275 (1,080), 3,172 (94.57), 5,600 (53)	P	(X)	Boeing Air Transport (Inc.).
Balabac, P. I., radio (Palawan)	F.C., FX	KEW	250 (1,200), 500 (600)	PG, PR	(?)	Philippine insular government.
Balangiga, P. I., radio (Samar)	F.C., FX	KBL	316 (950), 382 (785), 500 (600)	PG, PR	(?)	Do.

RADIO STATIONS OF THE UNITED STATES

Baler, P. I., radio (Tayabas).....	FC	KBR	306 (950), 500 (600), 750 (400)		PG	(10)	Do.
Baltimore, Md.....	FY	WFO	15,906 (187.97)		P	N	Board of fire commissioners.
Baltimore, Md., radio.....	FC	WVH	1536 (2,223), 143 (2,100), 418 (720), 500 (600)		PG	N	R. M. C. A.
Barstow, Calif.....	F	KONG	278 (1,059), 333 (900), 393 (705)		P	X	Transcontinental Air Transport (Inc.).
Bartlesville, Okla.....	FV	KJH	169 (1,769)		P	X	Phillips Petroleum Co.
Basco, P. I., radio (Batanes).....	FC, FX	KJW	158 (1,900), 500 (1,500), 250 (1,200), 315 (950), 500 (600)		FG, PR	(11)	Philippine insular government.
Batangas, P. I., radio (Batangas).....	FC, FX	KPC	100 (3,000), 138 (1,900), 200 (1,500), 250 (1,500), 316 (950), 375 (600), 500 (600), 750 (400)		FG, PR	(12)	Do.
Baytown, Tex.....	FY	KJV	418 (717.7), 500 (600)		P	X	R. M. C. A.
Bear Creek, Alaska.....	FX	KUY	9,100 (37.04)		P	X	New York-Alaska Gold Dredging Co.
Beaumont, Tex.....	FX	KOKM	1,596 (187.97), 1,712 (175.23)		P	N	City of Beaumont.
Belle Isle, Mich.....	FX	WOD	438 (685), 500 (600)		P	N	Magnolia Petroleum Co.
Bellevue, N. J. (See New Brunswick, N. J.).....	FX	WCI	2,410 (124.5)		P	N	City of Detroit.
Berkeley, Calif.....	FX	KSV	1,712 (175.23)		P	X	Berkeley police department.
Big Port, Walker, Alaska.....	FX	KPV	410 (730), 500 (600), 5,010 (50.88)		P	X	Port Walker Herring & Packing Co.
Big Spring, Tex. (municipal airport).....	FA, FX	KCTUG	278 (1,050), 3,484 (86.10), 5,000 (93.57)		P	X	S. A. T. Flying Service (Inc.).
Big Spring, Tex.....	FV	WPM	169 (1,735), 274 (1,086), 3,420 (87.7), 6,514 (46.06)		P	X	Inland Waterways Corporation.
Boca de Chisna, Alaska.....	FX	KZS	180 (1,069), 429 (700)		P	X	A. A. McCue.
Bolinas, Calif.....	FX	KEB	6,822.5 (43.78)		PR	N	R. C. A. Communications (Inc.).
Do.....	FX	KEL	7,715 (38.87)		PR	N	Do.
Do.....	FX	KEL	10,020 (28.249)		PR	N	Do.
Do.....	FX	KEL	9,010 (35.30)		PR	N	Do.
Do.....	FX	KEL	6,800 (46.732)		PR	N	Do.
Do.....	FX	KEL	15,450 (16.657)		PR	N	Do.
Do.....	FX	KEL	6,845 (43.228)		PR	N	Do.
Do.....	FX	KEL	10,390 (23.874)		PR	N	Do.
Do.....	FX	KEL	22,800 (23.819)		PR	N	Do.
Do.....	FX	KEL	22,800 (13.10)		PR	N	Do.
Do.....	FX	KEL	10,400 (28.840)		PR	N	Do.
Do.....	FX	KEL	15,475 (19.366)		PR	N	Do.
Do.....	FX	KEL	11,950 (25.105)		PR	N	Do.
Do.....	FX	KEL	15,400 (19.405)		PR	N	Do.
Do.....	FX	KEL	15,446 (19.454)		PR	N	Do.
Do.....	FX	KEL	15,570 (21.154)		PR	N	Do.
Do.....	FX	KEL	20,750 (21.87)		PR	N	Do.
Do.....	FX	KEL	20,750 (14.45)		PR	N	Do.
Bolinas, Calif., radio.....	FC	KPH	12 (2,381), 106 (2,200), 143 (2,100), 436 (600), 500 (600), 5,525 (54.3), 6,700 (43.13), 8,390 (33.0), 11,050 (27.15), 12,550 (23.37), 16,580 (38.094), 16,700 (37.964) 21,940 (13.674), 21,960 (13.640), 22,100 (13.573)		PG	N	R. M. C. A.
Bolinas, Calif.....	FX	KQG	18,000 (16.002)		PR	N	R. C. A. Communications (Inc.).
Do.....	FX	KQJ	18,000 (16.002)		PR	N	Do.
Do.....	FX	KQR	18,040 (16.936)		PR	N	Do.
Do.....	FX	KQZ	17,680 (16.665)		PR	N	Do.
Do.....	FX	KSS	20,870 (14.665)		PR	N	Do.
Do.....	FX	KUN	18,670 (14.005)		PR	N	Do.
Do.....	FX	KUN	15,400 (16.010)		PR	N	Do.
Bonrag, P. I., radio (Sulu).....	FC, FX	KWE	500 (600)		PG, PR	N	Philippine insular government.
Borger, Tex. (near).....	FX	KJS	169 (1,775)		P	X	Phillips Petroleum Co.

See footnotes on pp. 30 and 31.

RADIO DIVISION, DEPARTMENT OF COMMERCE

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
Borought, P. I., radio (Samar)	FC, FX FC, FX	KBN WBF	316 (950), 387 (775), 500 (600) 143 (2,100), 147 (2,040), 436 (690), 500 (600), 4,172 (71,008), 5,525 (51.3), 6,770 (44.31), 8,580 (35.09), 10,450 (28.71), 11,050 (27.15), 12,570 (24.25), 12,940 (23.18), 16,580 (18.094), 17,580 (17.065), 22,100 (13.575), 22,400 (13.363).	PG, PR PG, PR	(4) N	Philippine insular government. T. R. T. Co.
Do.	FC FX	WEY	1,566 (187.97)	P	X	Boston fire department.
Bradentown, Va.	FX	WNE	3,184 (94.2)	P	X	Florida Power & Light Co.
Breckenridge, Tex.	FX	RSU	169 (1,775), 182 (1,659)	P	X	Phillips Petroleum Co.
Brownsville, Tex. (municipal airport)	FA, FX	KGJW	278 (1,080), 2,662 (112.70), 3,070 (97.71), 5, 699 (52.72), 8,015 (37.43), 6,360 (47.24).	P	X	Pan American Airways (Inc.).
Brunswick, Ohio.	FX	WNDB	3,310 (90.63), 4,965 (58.71), 4,585 (65.43), 4,605 (65.14), 4,615 (65), 4,625 (64.86), 4,635 (64.72), 4,645 (64.58), 4,655 (64.44), 4,665 (64.30), 4,675 (64.17), 4,685 (64.03), 4,695 (63.89), 4,705 (63.76), 5,065 (53.88), 5,105 (53.76), 5,115 (53.65), 5,125 (53.53), 5,135 (53.42), 5,145 (53.30), 5,155 (53.19), 5,165 (53.08), 5,175 (52.97), 5,185 (52.86), 5,195 (52.74), 5,205 (52.63), 5,885 (50.97), 5,900 (50.84).	PR	N	Universal Wireless Communication Co. (Inc.).
Do.	FX FC, FX	WNDC WAM	4,625 (64.86), 5,185 (52.86)	PR PG, PR	N (4)	Do. Intercity Radio Telegraph Co.
Buffalo, N. Y., radio 11.	FC, FX	WBL	143 (2,100), 165 (1,820), 171 (1,755), 194 (1,630), 194 (1,545), 410 (730), 425 (708), 454 (660), 4,116 (72,886), 5,825 (54.3), 8,630 (34.76).	PG, PR	N	R. C. A.
Do. 11.	FC, FX	WBL	143 (2,100), 161 (1,865), 410 (730), 425 (708), 454 (660), 4,775 (62.82), 8,570 (35.01).	PG, PR	N	City of Buffalo police department. Alaska Pacific Fisheries.
Buffalo, N. Y.	FX	WMJ	2,422 (123.86)	P	X	Do.
Burnett Inlet, Alaska, radio.	FC, FX	KHD	227 (1,320), 252 (1,190), 274 (1,095), 425 (708), 500 (600), 2,428 (43.35), 3,160 (41.36).	PG, PR	X	Do.
Butler, Pa.	FX	WBR	257 (1,165)	P	X	Pennsylvania State police.
Butuan, P. I.	FX FX	KBT	6,993 (42.9)	PG, PR	(4) (4)	Philippine insular government. Do.
Chagnan de Sulu, P. I., radio (Sulu).	FC, FX	KEV	400 (750)	PG, PR	(4)	Do.
Childocan, P. I.	FA, FC	KBU	230.8 (1,300), 333 (900), 780 (380)	PG, PR	(4)	Do.
Chapman, P. I., radio (Mindoro)	FC, FX	KAN	425 (700), 500 (600), 780 (400)	PG, PR	(4)	Do.
Chapman Island, P. I.	FX	KZFJ		P	X	Mambit Lumber Co.
Cape Chincou, Alaska.	FC, FX	KFN	180 (1,665), 190 (1,580), 500 (600)	P, PR	X	Alaska Pacific Salmon Corporation.
Carmanan, P. I., radio (Carmanan Sur).	FC, FX	KAR	255 (1,175), 316 (950), 500 (600)	PG, PR	(4)	Philippine insular government.
Catuanan, P. I., radio.	FC, FX	KZKN	273 (1,160) to 545 (550), 400 (750)	PG, PR	(4)	Do.
Cartagena, P. I., radio (Samar)	FC, FX	KAC	273 (1,160), 308 (975), 353 (850), 400 (750), 500 (600), 632 (475).	PG, PR	(4)	Do.
Cebu, P. I., radio	FC, FX	KPI	125 (2,400), 187 (1,600), 250 (1,200), 300 (1,000), 500 (600), 6,897 (44.5).	PG, PR	(4)	Do.
Cebu, P. I.	FX	KTL	5,405 (54.89), 5,484 (54.7), 5,475 (54.79), 5,485 (54.69), 5,465 (54.89), 8,950 (33.69).	PR	N	Radio Corporation of the Philippines.
Do.	FX	KUI	6,383 (47)	P	X	MacLeod & Co.
Cedar Falls, Wash.	FX	KFR	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,181 (94.2), 3,238 (92.65), 3,244 (92.5).	P	X	City of Seattle light department.

RADIO STATIONS OF THE UNITED STATES

City	Call Letters	Class	Frequency	Power	Notes
Cedar Rapids, Iowa	KGOZ	FX	2,470 (121.5)		City of Cedar Rapids police department.
Cedar Rapids, Iowa (municipal airport)	KRA	FA, FX	278 (1,080), 3,142 (95.48), 5,600 (53)	P	Boeing Air Transport (Inc.).
Celba, P. R., radio	WKK	FC	438 (685), 500 (600), 1,592 (188.44), 5,525 (54.3), 6,545 (46.05)	PG	Department of the Interior, Bureau of Insular Telegraph.
Charteroi, Pa.	WVB	FX	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	West Penn Power Co.
Chatham, Alaska	KGIN	FC, FX	179 (1,675), 191 (1,570), 428 (700), 500 (600)	P, PR	New England Fish Co.
Chatham, Mass. (See Marion, Mass.)	WGO	FX	406 (740), 500 (600)	PG	R. M. C. A.
Chatham, Mass., radio	CWM	FC	171 (1,755)	P	Warren W. Kathan.
Chicogan, Mich.	WPI	FX	278 (1,080), 3,172 (94.57), 5,660 (53)	P	Boeing Air Transport (Inc.).
Chicoune, Wyo. (municipal airport)	KOE	FA, FX	95 (3,160), 99 (3,030)	PR	American Radio News Corporation.
Chicago, Ill. (Cleveland air mail field)	WAK	FX	278 (1,080), 3,142 (95.48), 5,660 (53)	PG, PR	Boeing Air Transport (Inc.).
Chicago, Ill., radio ¹	WBQ	FA, FX	181 (1,655), 194 (1,630), 104 (1,545), 410 (730), 425 (705), 454 (600), 4,116 (72.880), 5,525 (54.3), 8,630 (34.76)	PG, PR	Intercity Radio Telegraph Co.
Chicago, Ill., radio ²	WFL	FC, FX	143 (2,100), 107 (1,795), 410 (730), 425 (705), 454 (660), 4,775 (62.827), 5,525 (54.3), 8,570 (35.01)	PG, PR	Illinois Radio Corporation of America.
Chicago, Ill.	WJA	FX	7,355 (40.70), 7,955 (37.72), 15,700 (18.850)	P	Press Wireless (Inc.).
Do	WJC	FX	7,820 (38.36), 15,640 (19.182)	P	Do.
Do	WPDB	FX	1,712 (175.23)	P	Chicago police department.
Do	WPDC	FX	do	P	Do.
Do	WPDD	FX	do	P	Do.
Chicago, Alaska, radio	KRX	FC, FX	343 (875), 500 (600)	PG, PR	Chicago Development Co.
Do	KHC	FC, FX	180 (1,065), 186 (1,610), 500 (600)	P, PR	Alaska Packers Association.
Do	KJB	FC, FX	180 (1,065), 414 (725), 500 (600)	P, PR	Northwestern Fisheries Co.
Chignik, Alaska, radio	KNP	FC, FX	252 (1,190), 262 (1,145), 272 (1,165), 425 (705), 500 (600)	P, PG, PR	Columbia River Packers Association.
Chomly, Alaska	KDP	FC, FX	180 (1,065), 500 (600)	PR	Alaska Consolidated Canneries.
Cincinnati, Ohio	WKDU	FX	1,712 (175.23)	P	City of Cincinnati police department.
Clarke Point, Alaska	KHG	FX	180 (1,065), 429 (700), 500 (600)	P	Alaska Packers Association.
Clearwater, Calif. (Los Angeles)	KNR	FX	55.36 (5,430), 79.32 (3,782), 92.76 (32.34), 4,306 (68.243), 4,400.5 (68.18), 4,405 (68.10), 4,410 (68.02), 4,415 (67.95), 5,975 (30.20), 5,982.5 (30.15), 5,990 (50.083), 6,815 (44.02), 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	M. R. T. Co.
Clearwater, Calif., radio (Los Angeles)	KOK	FC	418 (720), 500 (600), 4,196 (71.486), 5,525 (54.3), 8,670 (34.60), 11,950 (27.15), 11,380 (26.30), 16,580 (18.054), 16,900 (17.751), 21,620 (13.576), 22,100 (13.575)	PG	Do.
Cleveland, Ohio	WRBH	FX	2,452 (122.34)	P	City of Cleveland police department.
Do	WRDT	FA	278 (1,080)	P	City of Cleveland, division of airport.
Cleveland, Ohio, radio ²	WTK	FC, FX	143 (2,100), 165 (1,820), 171 (1,755), 184 (1,630), 194 (1,546), 410 (730), 425 (705), 454 (660), 4,116 (72.886), 5,525 (54.3), 8,630 (34.76)	PG, PR	Intercity Radio Telegraph Co.
Cleveland, Ohio	WTL	FX	184 (1,630), 194 (1,545)	PR	Do.
Clevis, N. Mex.	KST	AB, FA	278 (1,080), 420 (715)	P	Transcontinental Air Transport (Inc.).
Columbus, Ohio	WCL	FX	184 (1,630), 194 (1,545)	PR	Intercity Radio Telegraph Co.
Do	WHG	AB, FA	278 (1,080), 393 (705)	P	Transcontinental Air Transport (Inc.).

See footnotes on pp. 30 and 31.

RADIO DIVISION, DEPARTMENT OF COMMERCE

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
Columbus, Ohio.....	FX	WNDM	3,310 (90.63), 4,565 (65.71), 4,585 (65.43), 4,605 (65.14), 4,615 (65.2), 4,625 (64.86), 4,635 (64.72), 4,645 (64.58), 4,655 (64.44), 4,665 (64.3), 4,675 (64.17), 4,685 (64.03), 4,695 (63.89), 4,705 (63.76), 5,065 (58.88), 5,105 (58.76), 5,115 (58.65), 5,125 (58.53), 5,135 (58.42), 5,145 (58.30), 5,155 (58.19), 5,165 (58.08), 5,175 (57.97), 5,185 (57.85), 5,195 (57.74), 5,205 (57.63), 5,285 (50.97), 5,900 (50.84), 2,416 (124.17)	PR	N	Universal Wireless Communication Co. (Inc.).
Do.....	FX	WPDI	3,160 (94.9), 3,166 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.66), 3,244 (92.5)	P	N	Board of county commissioners, Franklin County, West Penn Power Co.
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 (92.66), 3,244 (92.5)	P	N	West Penn Power Co.
Coron, P. I., radio.....	FC, FX	KAK	500 (600), 750 (400)	PG, PR	(9)	Philippine insular government.
Culio, P. I., radio (Palawan).....	FC, FX	KPJ	500 (600), 750 (400)	P	(9)	Do.
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 (92.66), 3,244 (92.5)	PG, PR	X	Potomac Edison Co.
Cuyo, P. I., radio (Palawan).....	FC, FX	KLX	267.9 (111.98), 500 (600)	P	(19)	Philippine insular government.
Dallas, Tex (Love Field).....	F A, F X	KGUF	278 (1,080), 3,454 (80.10), 5,600 (53.57)	P	X	Aeronautical Radio (Inc.).
Dallas, Tex.....	F A, F X	KGSQ	278 (1,080), 3,088 (97.15), 3,460 (86.7), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63), 1,712 (175.23)	P	X	Do.
Do.....	FX	KVP	1,712 (175.23)	P	X	City of Dallas police and fire signal department.
Daly, Alaska, radio.....	FC, FX	KDI	222 (1,350), 272 (1,105), 400 (650), 500 (600)	FC, PR	X	R. M. C. A.
Dapa, P. I., radio (Surigao).....	FC, FX	KBD	300 (1,000) to 500 (600)	FC, PR	(15)	Philippine insular government.
Dapitan, P. I., radio (Zamboanga).....	F, F X	KSD	214 (1,400) to 500 (600)	FC, PR	(14)	Do.
Darlington, Md., (near).....	F, F X	WSY	3,184 (94.2)	P	X	Susquehanna Power Co.
Davao, P. I., radio (Mindanao).....	F A, F X	KLF	273 (1,100), 500 (600), 6,353 (47)	FC, PR	(17)	Philippine insular government.
Davao, P. I., radio (Mindanao).....	F A, F X	KUK	6,000 (50)	P	(17)	MacLeod & Co.
Dayton, Ohio.....	FX	WNDI	3,310 (90.63), 4,565 (65.71), 4,585 (65.43), 4,605 (65.14), 4,615 (65.2), 4,625 (64.86), 4,635 (64.72), 4,645 (64.58), 4,655 (64.44), 4,665 (64.30), 4,675 (64.17), 4,685 (64.03), 4,695 (63.89), 4,705 (63.76), 5,065 (58.88), 5,105 (58.76), 5,115 (58.65), 5,125 (58.53), 5,135 (58.42), 5,145 (58.30), 5,155 (58.19), 5,165 (58.08), 5,175 (57.97), 5,185 (57.85), 5,195 (57.74), 5,205 (57.63), 5,285 (50.97), 5,900 (50.84), 3,184 (94.2)	PR	N	Universal Wireless Communication Co. (Inc.).
Daytona Beach, Fla.....	FX	WNX	3,184 (94.2)	P	X	Florida Power & Light Co.
Deborah, Mich.....	A, H	WFO	280 (1,031)	P	N	Ford Motor Co.
Do.....	FX	WAV	165 (1,840), 174 (1,725)	P	X	Do.
Do.....	FX	WBO	2,323 (54.3), 8,030 (34.76)	P	X	Do.
Do.....	F A, F X	WQD	278 (1,080), 3,070 (97.71), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)	P	X	Aeronautical Radio (Inc.).
Denver, Colo.....	F A, F X	KGSP	278 (1,080), 3,070 (97.71), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)	P	X	Boeing Air Transport (Inc.).
Des Moines, Iowa (municipal airport).....	F A, F X	KQM	278 (1,080), 3,172 (94.57), 5,600 (53)	FC, PR	N	R. C. A.
Decour, Mich., radio #.....	F C, F X	WAA	143 (2,100), 161 (1,865), 167 (1,795), 410 (730), 425 (705), 454 (660), 4,775 (62.82), 5,525 (54.3), 8,570 (35.01)	P	X	Do.
Detroit, Mich.....	FX	WBM	3,184 (94.2)	P	X	Detroit-Edison Co.

City, State	Call	Freq	Power	Class	Remarks	Op
Detroit, Mich., radio #4	FC, FX	143 (2,100), 165 (1,820), 171 (1,755), 184 (1,630), 194 (1,545), 410 (730), 425 (705), 454 (660), 4,110 (72,860), 5,525 (54.3), 8,650 (34.70)		PG, PR		Intercity Radio Telegraph Co.
Detroit, Mich.	FX	1,890 (187.97)		P		City of Detroit.
Douglas, Ariz.	FA, FX	278 (1,080), 3,088 (97.15), 3,400 (86.70), 6,350 (47.24), 8,015 (57.45), 12,180 (24.63)		P		Aeronautical Radio (Inc.).
Downers Grove, Ill.	FX	3,100 (94.9), 3,180 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,238 (92.65), 3,244 (92.5)		P		Commonwealth Edison Co.
Drier Bay, Alaska	FXT	3,406 (86.56)		PR		Gorman Packing Corporation.
Duluth, Minn., radio #2	FC, FX	143 (2,100), 165 (1,820), 171 (1,755), 184 (1,630), 194 (1,545), 410 (730), 425 (705), 454 (660), 4,110 (72,860), 5,525 (54.3), 8,650 (34.70)		PG, PR		Intercity Radio Telegraph Co.
Do. #2	FC, FX	143 (2,100), 165 (1,795), 410 (730), 495 (705), 454 (660), 4,775 (62.827), 5,325 (54.3), 8, 570 (35.01)		PG, PR		R. C. A.
Dundas, Alaska	FC, FX	176 (1,705), 180 (1,665), 450 (760), 500 (600)		P		Northwestern Fisheries Co.
East Moriches, N. Y., radio	F, C	111 (2,705), 126 (2,400), 157 (2,100), 143 (2,100), 500 (600)		PG		R. M. C. A.
East St. Louis, Ill.	FA, FX	278 (1,080), 335 (900), 400 (750), 7,445 (40.50), 9,410 (31.88)		PR		Transcontinental Air Transport (Inc.).
Edmonds, Wash.	FX	7,430 (40.38), 7,437.5 (40.34), 7,445 (40.50), 9,410 (31.88), 10,930 (27.45), 15,860 (13.20)		PG		Globe Wireless (Ltd.).
Edmonds, Wash., radio	FC	18,820 (15.94), 22,900 (13.20)		PG		Do.
Egegik, Alaska, radio	FC, FX	460 (650), 500 (600), 4,170 (72,860), 5,525 (54.3), 6,515 (40.05), 8,650 (34.70), 11,340 (26.57), 11,050 (27.15), 11,080 (27.08), 11,140 (26.95), 11,500 (26.27), 16,580 (18.084), 15,900 (17.753), 22,100 (13.575), 22,160 (13.538)		PG, P P		Libby, McNeill & Libby. Do.
Ekuk, Alaska	F, X	256 (1,170), 272 (1,105), 400 (650), 500 (600)		P		Shelly Oil Co.
El Centro, Calif.	FA, FX	278 (1,080), 3,058 (93.15), 3,400 (86.70), 6,350 (47.24), 8,015 (57.45), 12,180 (24.63)		PG, P P		Boeing Air Transport (Inc.). Aeronautical Radio (Inc.).
El Dorado, Kans.	FX	157 (1,910), 187.52 (1,450)		P		Do.
Elko, Nev. (municipal airport)	FA, FX	278 (1,080), 3,172 (94.57), 5,660 (55)		P		South Porto Rico Sugar Co.
El Pasr, Tex.	FA, FX	278 (1,080), 3,058 (93.15), 3,400 (86.70), 6,350 (47.24), 8,015 (57.45), 12,180 (24.63)		P		Shepard Point Packing Co.
El Paso, Tex. (municipal airport)	FA, FX	278 (1,080), 3,484 (86.1), 5,600 (53.57)		PG, PR		Pacific Communication Co.
Encinada, P. R., radio	F, C, FX	143 (2,100), 163 (1,840), 498 (683), 500 (600)		PG		Do.
Evans Bay, Alaska	FX	143 (2,100), 163 (1,840), 400 (650), 500 (600), 5,525 (54.3), 8,630 (34.70), 11,080 (27.15)		P, PR		R. M. C. A.
Everett, Wash., radio	FC, FX	212 (1,415), 246 (1,220), 495 (705), 500 (600)		PG, P		P. E. Harris & Co.
Excursion Inlet, Alaska	FC, FX	227 (1,320), 232 (1,180), 495 (705), 500 (600)		P		Aeronautical Radio (Inc.).
False Pass, Alaska, radio	FA, FX	278 (1,080), 3,070 (97.11), 3,400 (86.70), 6,350 (47.24), 8,015 (57.45), 12,180 (24.63)		P		City of Flint police department. Ford Motor Co.
Flint, Mich.	FX	2,440 (123)		P		Florida Power & Light Co.
Fordson, Mich.	FX	2,452 (122.39)		P		T. R. T. Co.
Fort Lauderdale, Fla.	FX	3,184 (94.2)		P		Florida Power & Light Co.
Fort Morgan, Ala., radio	FC, FX	176 (1,765), 442 (680), 500 (600), 4,172 (71.90), 5,525 (54.3), 6,650 (45.11), 11,050 (27.16), 13,180 (22.70), 10,850 (18.094)		PG, PR		(39)
Fort Pierce, Fla.	FX	3,184 (94.2)		P		Florida Power & Light Co.
Fort Worth, Tex. (McCaughy Field)	FA, FX	278 (1,080), 3,484 (86.1), 5,600 (53.57)		P		Aeronautical Radio (Inc.).
Frackville, Pa.	FX	3,184 (94.2)		P		Pennsylvania Power & Light Co.
Frammingham, Mass.	FX	1,662 (180.51)		P		Commonwealth of Massachusetts, department of public safety.

See footnotes on pp. 30 and 31.

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
Frankfort, Mich., radio a1	FC, FX	WPK	174 (1,725), 410 (730), 425 (705), 454 (660)	PG, P	X	Wabash Radio Corporation.
Fresno, Calif.	FX	KGJI	3,250 (22.3), 4,244 (70.7), 5,365 (55.92), 8,816 (34.05), 10,012, (24.97)	P	X	Federal-State Marketing Service.
Fresno, Calif. (aviation field)	FA, FX	KGTT	278 (1,680), 3,172 (94.57), 5,630 (53)	P	X	Boeing Air Transport (Inc.).
Funter, Alaska	FX	KXK	186 (1,665), 480 (625), 500 (600)	PR	X	Sunny Point Packing Co.
Galveston, Tex., radio	FC, FX	WGV	418 (720), 500 (600)	PG, PR	(X)	R. M. C. A.
Garden City, N. Y.	FX	WGA	7,480 (40.35), 7,437.5 (40.36), 7,445 (40.29), 9,410 (31.88), 10,630 (27.45), 14,860 (20.16), 14,875 (20.175), 14,990 (20.15), 16,820 (15.9)	PG	N	Globe Wireless (Ltd.).
Garden City, N. Y., radio	FC	WPN	14,820 (20.16), 14,875 (20.175), 14,990 (20.15), 16,820 (15.9)	PG	N	Do.
Garden City, Kans.	FA, FX	KGKQ	333 (900), 457 (665)	P	X	Universal Aviation Corporation.
George Inlet, Alaska, radio	FC, FX	KPF	220 (1,365), 274 (1,085), 460 (650), 500 (600)	PG, PR	X	Libby, McNeill & Libby.
Glendale, Calif.	FA, FX	KGNH	278 (1,680), 333 (900), 400 (750)	P	X	Transcontinental Air Transport (Inc.).
Greensburg, Pa.	FX	WJL	257 (1,165)	P	X	Pennsylvania State police.
Grosse Pointe Village, Mich.	FX	WRDR	2,410 (124.5)	P	X	Township of Grosse Pointe.
Guam, radio	FC, FX	KDC	4,14.6 (22.886), 5,525 (54.3), 6,915 (46.05), 7,445 (40.30), 8,630 (34.76), 11,020 (27.22), 11,050 (27.15), 11,080 (27.08), 11,140 (26.95), 11,200 (26.79), 14,850 (20.15), 16,580 (18.004), 16,900 (17.51), 18,820 (15.94), 22,100 (13.575), 22,160 (13.538), 22,660 (13.236)	PG, PR	N	Globe Wireless (Ltd.).
Harrisburg, Pa.	FX	WBA	287 (1,165)	P	X	Pennsylvania State police.
Hawk Inlet, Alaska, radio	FC, FX	KPD	217 (1,380), 246 (1,220), 425 (705), 500 (600)	PG, PR	N	P. E. Harris & Co. (accounts settled by R. M. C. A.).
Hazelton, Pa.	FX	WCG	3,184 (34.2)	P	X	Pennsylvania Power & Light Co.
Hecla Island, Alaska	FC, FX	KGG	180 (1,695), 414 (725), 500 (600)	P	X	Nakat Packing Corporation.
Hialeah, Fla., radio	FC, FX	WAX	55 (5,450), 77 (3,900), 80.5 (3,725), 143 (2,100), 145 (2,070), 482 (620), 500 (600), 5,525 (54.3), 6,655 (45), 6,770 (44.31), 8,490 (35.34), 10,450 (28.71), 11,050 (27.15), 12,940 (23.18), 13,180 (27.76), 16,550 (18.034), 22,100 (13.575), 22,280 (13.465), 22,320 (13.465)	PG, PR	N	T. R. T. Co.
Hidden Inlet, Alaska	FC, FX	KQL	162 (1,850), 182 (1,650), 188 (1,665), 414 (725), 500 (600), 2,320 (129.3)	P, PR	X	Nakat Packing Corporation.
Highland Park, Ill.	FX	WIIV	6,663 (45.02)	P	N	Wireless Telegraph & Communication Co.
Highland Park, Mich.	FX	WMO	2,410 (124.5)	P	X	City of Highland Park.
Hillsboro, Oreg., radio	FC	KEK	418 (720), 500 (600), 4,755 (63.081), 5,525 (54.3), 5,560 (45.79), 11,080 (27.15), 11,320 (26.60), 16,580 (18.004), 21,660 (13.85), 22,100 (13.575)	PG	X	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	N	Do.

Hilo, Hawaii.....	KLN	FX	442 (680), 3,196 (39.86), 3,226 (32.99), 5,270, (52.45), 5,750 (52.17)	PR	X	Mutual Telephone Co.
Hinatuan, P. I., radio (Surigao).....	KAH	FC, FX	306 (980), 414 (726), 500 (600)	PG, PR	X	Philippine insular government
Holbrook, Ariz.....	KGTA	FA, FX	278 (1,080), 3,070 (37.71), 3,460 (86.71), 6,350 (47.24), 8,015 (37.43), 12,150 (24.63)	P	X	Aeronautical Radio (Inc.)
Honolulu, Hawaii.....	KDGG	FX	7,340 (40.87), 7,855 (40.79), 7,370, (40.71), 7,820 (38.36), 7,835 (38.29), 7,955 (37.72), 15,010, (19.218), 13,640 (19.182), 15,670 (19.145), 15,730 (19.072), 15,760 (19.036), 15,880 (18.882), 15,910 (18.856)	PR	N	Press Wireless (Inc.)
Honolulu, Hawaii (Kaena Point).....	KGS	FX	7,430 (40.38), 7,445 (40.29), 9,410 (31.88), 10,930 (27.45), 14,860 (20.19), 14,890 (20.19), 18,820 (13.94), 22,700 (13.216)	PR	N	Robert Dollar Co.
Honolulu, Hawaii (See Kailua, Hawaii).....	KNN					
Honolulu, Hawaii.....	KOG	FX	466 (740), 3,010 (39.7), 3,058 (38.10), 5,810 (51.64), 5,840 (51.37)	PR	X	Mutual Telephone Co.
Honolulu, Hawaii.....	KYG	FC	400 (650), 500 (600), 4,110 (73.86), 5,325 (49.3), 4,515 (48.03), 8,680 (34.76), 11,020 (27.22), 11,060 (27.13), 11,080 (27.08), 11,140 (26.93), 11,200 (26.79), 15,580 (18.094), 16,300 (17.751), 22,100 (13.375), 22,160 (13.338)	PG	N	Globe Wireless (Ltd.)
Hood Bay, Alaska.....	KFB	FC, FX	212 (1,415), 246 (1,226), 460 (650), 500 (600)	PR	X	Hood Bay Canning Co.
Honolulu, Wash., radio.....	KJQ	FC	460 (650), 500 (600)	PG	X	Olympic Radio Co.
Houston, Tex. (municipal airport).....	KGUB	FA, FX	278 (1,080), 3,484 (86.1), 5,600 (53.57)	P	X	Aeronautical Radio (Inc.)
Hunters Bay, Alaska.....	KQI	FX	176 (1,705), 180 (1,605), 420 (700), 500 (600)	P	X	Northwestern Fisheries Co.
Hvalburg, Alaska.....	KGIP	FX	179 (1,679), 191 (1,560)	PR	X	For North Fisheries (Inc.)
Hyder, Alaska.....	KDF	FX	180 (1,665), 187 (1,600), 445 (673), 500 (600)	PR	X	Hyder Radio & Telephone Co.
Ikatan, Alaska, radio.....	KXW	FC, FX	222 (1,350), 232 (1,190), 423 (706), 500 (600)	PG, PR	X	R. M. C. A.
Iloilo, P. I., radio.....	KPM	FC, FX	309 (970), 361 (830), 500 (600)	PG, PR	(12)	Philippine insular government
Iloilo, P. I.....	KTJ	FX	5,355 (36.02), 5,365 (36.91), 5,970 (50.2), 7,400 (40.54), 7,415 (40.40)	PR	N	Radio Corporation of the Philippines.
Independence, Calif.....	KQS	FX	3,184 (94.2)	P	X	City of Los Angeles, Calif., department of water and power.
Indianapolis, Ind.....	WEM	AB, FA	278 (1,080), 400 (750)	P	X	Transcontinental Air Transport (Inc.)
Do.....	WMIZ	FX	1,712 (174.23)	P	X	City of Indianapolis police department.
Indio, Calif.....	KGJB	FX	3,250 (32.3), 4,244 (70.7), 5,365 (55.92), 8,810 (31.05), 10,010 (29.37)	P	X	Federal-State Marketing Service.
Infanta, P. I., radio (Tayabas).....	KAI	FC, FX	148 (2,160), 154 (1,950), 167 (1,800), 187 (1,600), 214 (1,400), 230 (1,200), 300 (1,600), 375 (800), 500 (600)	PG, PR	(13)	Philippine insular government.
Ingham, Mich.....	WRDS	FX	1,662 (180.31)	P	X	State of Michigan department public safety.
Iowa City, Iowa (municipal airport).....	KQK	FA, FX	278 (1,080), 3,172 (31.57), 5,000 (53)	P	(10)	Beeing Air Transport (Inc.)
Isabela de Basilan, P. I., radio (Zamboanga).....	KPN	FC, FX	1,500 (200)	PR	(10)	Philippine insular government.
Ispsumping, Mich.....	WAN	FC, FX	143 (2,100), 165 (1,890), 171 (1,755), 410 (730), 425 (705), 454 (690), 1,116 (72,486), 5,595 (54.3), 5,630 (31.76)	PG, PR	(14)	Intercity Radio Telegraph Co.
Island of Oahu, Hawaii, radio.....	KGOS	FC, FX	2,560 (1,553), 2,854 (108.12)	PG, PR	X	Libby Communications (Inc.)
Jersey City, N. J.....	WHU	FX	3,000 (94.43), 3,465 (70.43), 3,172 (94.0), 3,178 (94.4), 3,184 (94.2), 3,278 (92.65), 3,291 (92.5)	P	X	Public Service Electric & Gas Co.
Jolo, P. I., radio (Jolo).....	KIL	FC, FX	157,48 (1,605), 260 (1,200), 500 (600)	PG, PR	(10)	Philippine insular government.
Juneau, Alaska.....	KGOV	FA, FX	278 (1,080), 1,406 (36.0)	PR	N	Alaska Washington Airways (Inc.)
Kahuku, Hawaii.....	KKP	FX	6,232 (44,360)	PR	N	R. C. A. Communications (Inc.)
Do.....	KIP	FX	18 (16,570)	PR	N	Do.
Do.....	KGI	FX	18.6 (16,129)	PR	N	Do.

See footnotes on pp. 30 and 31.

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
Kauiuku, Hawaii.....	FX	KIO	11,680 (25.085)	PR	N	R. C. A. Communications (Inc.).
Do.....	FX	KHK	7,520 (39.89)	PR	N	Do.
Do.....	FX	KKP	13,705 (21.800)	PR	N	Do.
Do.....	FX	KQH	19,020 (15.773)	PR	N	R. C. A.
Do.....	FX	KRO	5,845 (51.33)	PR	N	Do.
Do.....	FX	KNN	5,815 (44.02), 6,875 (43.64), 7,655 (39.00), 7,662.5 (38.65), 7,670 (38.7), 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), 9,200 (32.29), 10,170 (29.6), 10,490 (28.0), 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 (21.32), 13,960 (21.40), 14,680 (20.44), 14,095 (20.415), 14,710 (20.39), 14,725 (20.375), 14,740 (20.35), 14,755 (20.335), 14,770 (20.31), 17,410 (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	M. R. & T. Co.
Keke, Alaska.....	FC, FX	KGP	180 (1,665), 480 (625), 500 (600)	P	X	Sunny Point Packing Co.
Kalepa, Hawaii (Kauai Island).....	F, X	KGXO	47,500 (6.342)	PR	X	Mutual Telephone Co.
Kansas City, Mo.....	F, A, F, X	KGNJ	278 (1,080), 333 (900), 393 (765)	P	X	Transcontinental Air Transport (Inc.).
Do.....	F, A, F, X	KGTG	278 (1,080), 3,070 (97.7), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)	P	X	Aeronaautical Radio (Inc.).
Do.....	FX	KGPE	2,422 (123.36)	P	N	State of Missouri, metropolitan police department.
Karlheen, Alaska.....	FC, FX	KFC	220 (1,365), 227 (1,320), 268 (1,120), 274 (1,095), 460 (650), 500 (600)	PG, PR	X	Libby, McNeill & Libby.
Karluk, Alaska (Kodiak Island).....	FC, FX	KYK	2,428 (123.55), 3,178 (94.39)	P	X	Alaska Packers Association.
Kasaan, Alaska.....	FC, FX	KMC	176 (1,705), 180 (1,665), 429 (700), 500 (600)	P	X	Northwestern Fisheries Co.
Kuanakakai, Hawaii (Molokai Is- land).....	F, X	KGXN	51,600 (5.814)	PR	X	Mutual Telephone Co.
Do.....	FX	KHO	442 (680), 3,196 (93.86), 3,236 (92.99), 5,720 (52.45), 5,750 (52.17)	PR	X	Do.
Katalo, Alaska, radio.....	FC, FX	KSC	182 (1,650), 414 (725), 500 (600)	FC, PR	X	Chilkat Oil Co.
Kenai, Alaska, radio.....	F, X	KLD	180 (1,665), 414 (725), 500 (600)	P	X	Northwestern Fisheries Co.
Kenai, Alaska, radio.....	FC, X	KYZ	212 (1,415), 210 (1,370), 460 (650), 500 (600)	P, PG	X	Libby, McNeill & Libby.
Ketchikan, Alaska, radio.....	F, X	KGM	2,520 (126.3)	P, PG	X	Alaska Pacific Salmon Corporation.
Killsnoe, Alaska.....	F, X	KQU	480 (625), 500 (600)	P	X	Killsnoe Fisheries Co.
King Cove, Alaska, radio.....	FC, FX	KJK	222 (1,350), 252 (1,190), 425 (705), 500 (600)	FC, PR	X	R. M. C. A.
Kingman, Ariz.....	F, A, F, X	KGTL	278 (1,080), 3,070 (97.7), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)	P	X	Aeronaautical Radio (Inc.).
Kingman Ariz. (T. A. T. airport).....	AB, FA	KSX	278 (1,080), 457 (665)	P	X	Transcontinental Air Transport (Inc.).
Kings Mill, Tex.....	F, X	KYI	6,293.4 (48.05)	P	X	Texas Pipe Line Co.
Kogging (permanently moored steer in Kogging River).....	F, X	KUD	180 (1,665), 429 (700), 500 (600)	P	X	Alaska Packers Association.

Call Letters	City	Frequency	Power	Class	Notes
Kogging, Alaska, radio.		256 (1,170), 272 (1,105), 460 (650), 500 (600)			
Koko Head, Hawaii. (See Kahuku, Hawaii.)					
Kvichak (permanently moored scow in Kogging River).					
Kvichak, Alaska.		180 (1,665), 425 (700), 500 (600)			
Do.		do.			
Lake Bay, Alaska.		500 (600), 3,490 (80)			
Lake City, Fla.		180 (1,665), 425 (705), 462 (650), 500 (600)			
Lakeland, Fla.		3,184 (94.2)			
Lanai Island, Hawaii.		do.			
Lanai, Hawaii.		54,000 (5,925)			
I'Anse, Mich.		442 (680), 3,196 (93.80), 3,226 (92.09), 5,720 (52.447), 5,750 (52.17)			
Lansing, Ill.		174 (1,725)			
Lansing, Mich.		278 (1,080), 414 (725)			
Larena, P. I.		2,440 (123)			
Las Vegas, Nev.		263.2 (1,140), 319 (940), 402.7 (745), 500 (600), 545 (560)			
Latouche, Alaska, radio.		278 (1,080), 3,070 (97.71), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)			
Laurel, Md.		187 (1,605), 219 (1,370), 425 (705), 500 (600)			
Do.		5,870 (51.1)			
Lawrenceville, N. J.		5,235 (57.30)			
Do.		10,550 (28.44), 16,270 (18.44), 21,420 (14.01)			
Do.		9,870 (30.40), 14,590 (20.56), 19,820 (15.136)			
Do.		9,750 (30.77), 14,470 (20.73), 19,220 (15.61)			
Do.		6,755 (44.41), 9,170 (32.72), 13,360 (22.40), 18,840 (16.358), 21,060 (14.245)			
Lazy Bay, Alaska, radio.		222 (1,350), 252 (1,190), 268 (1,120), 425 (705), 500 (600)			
Lebak, P. I., radio.		150 (2,000), 200 (1,500), 500 (600)			
Legaspi, P. I., radio.		300 (1,000), 500 (600), 6,742 (44.5)			
Libbyville, Alaska, radio.		125 (2,400), 143 (2,100), 153 (1,900), 167 (1,800), 179 (1,680), 180 (1,665), 219 (1,370), 256 (1,170), 272 (1,105), 333 (900), 425 (705), 500 (600)			
Lihue, Hawaii (Island of Kauai).		442 (680), 3,196 (93.80), 3,226 (92.99), 5,720 (52.45), 5,750 (52.17)			
Lincoln, Nebr. (municipal airport).		278 (1,080), 3,172 (94.57), 5,660 (53)			
Linden, N. J.		7,775 (38.58), 19,780 (15.167)			
Little Neck, N. Y.		7,370 (40.71), 7,820 (38.36), 15,610 (19.218), 15,640 (19.182)			
Do.		7,340 (40.87), 7,555 (40.70), 7,370 (40.71), 7,820 (38.36), 7,835 (38.20), 7,955 (37.72), 15,610 (19.218), 15,640 (19.182), 15,670 (19.145), 15,730 (19.072), 15,760 (19.036), 15,880 (18.892), 15,910 (18.856)			
Do.		do.			
Do.		7,835 (38.29), 15,670 (19.145)			
Do.		7,850 (38.22), 15,700 (19.108)			
Do.		7,340 (40.87)			
L. McN. & L. VI No. 1 (permanently moored scow in Kvichak River, Alaska).		256 (1,170), 272 (1,105)			

See footnotes on pp. 30 and 31.

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee	
Lockanok, Alaska.....	FX	KML	256 (1,170), 272 (1,105)	P	X	Libby, McNeill & Libby, Federal-State Marketing Service.	
Lodi, Calif.....	FX	KGJC	3,250 (89.6), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97)	P	X		
Loring, Alaska.....	FC, FX	KRI	180 (1,665), 429 (700), 500 (600)	P	X	Alaska Packers Association, Reeving Air Transport (Inc.), Aeronautical Radio (Inc.).	
Los Angeles, Calif.....	FA, FX	KEU	278 (1,080), 3,172 (94.57), 5,660 (53)	P	X		
Los Angeles, Calif. (Alhambra airport)	FA, FX	KGTI	278 (1,080), 3,070 (97.71), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)	P	X		
Los Angeles, Calif.....	FX	KGX	7,430 (40.38), 7,437.5 (40.34), 7,445 (40.29), 9,410 (31.88), 10,830 (27.45), 14,860 (20.19), 14,875 (20.175), 14,890 (20.15), 18,820 (15.94), 22,660 (13.239)	PR	N	Globe Wireless (Ltd.).	
Los Angeles, Calif. (See Clearwater, Calif.)		KOK					
Los Angeles, Calif.....	FX	KOS	15,880 (18.892)	P	X	Press Wireless (Inc.). Do.	
Los Angeles, Calif.....	FX	KPG	7,625 (39.35)	P	X		
Do.....	FX	KQT	3,184 (94.2)	P	X		
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	City of Los Angeles department of water and power, Federal-State Marketing Service, State department of agriculture (Calif.).	
Do.....		KSE					
Los Angeles, Calif. (See Torrance, Calif.)							
Los Angeles, Calif., radio.....	FC	KSM	460 (650), 506 (600), 4,116 (72.889), 5,525 (54.3), 6,515 (46.05), 8,630 (34.70), 11,020 (27.22), 11,050 (27.15), 11,080 (27.08), 11,140 (26.93), 11,200 (26.79), 16,580 (18.093), 16,900 (17.751), 22,100 (13.575), 22,160 (13.538)	PG	N	Globe Wireless (Ltd.).	
Louisville, Ky.....	FX	WPDE	2,416 (124.17)	P	X	City of Louisville, Pere Marquette Radio Corporation, Hercules Lumber Co., Mackinac Radio Service (E. M. Tel- jelson), Philippine insular government.	
Ludington, Mich., radio 3.....	FC, FX	WLD	143 (2,100), 174 (1,725), 375 (800), 410 (730), 425 (705), 454 (660)	PG, PR	N		
Lummaro, P. I.....	FC	KZFD	545 (550)	P	X		
Mackinac Island, Mich., radio 3.....	FC, FX	WHQ	163 (1,840), 410 (730), 425 (705), 454 (660)	PG, PR	X		
Malabang, P. I., radio (Mindamo Is- land)	FC, FX	KIZ	353 (850), 375 (800), 400 (750), 500 (600)	PG, PR	(6)		
Malita, P. I., radio (Davao)	FC, FX	KPW	400 (750), 500 (600), 667 (450)	PG, PR	(7)	Do.	
Mambajao, P. I., radio.....	FX	KUM	273 (1,100), 571 (525)	PG, PR	(6)	Do.	
Manawahan, Hawaii (Oahu Island)	FX	KGXA	39,600 (7.58)	PR	X	Mutual Telephone Co. Do. Do. Do. Do. Do. Do. Do. Do. Do. Do.	
Do.....	FX	KGXB	46,200 (6.491)	PR	X		
Do.....	FX	KGXC	37,400 (8.02)	PR	X		
Do.....	FX	KGXD	50,400 (5.952)	PR	X		
Do.....	FX	KGXE	35,200 (8.52)	PR	X		
Do.....	FX	KGXF	41,700 (7.177)	PR	X		
Do.....	FX	KGXG	52,800 (5.682)	PR	X		
Do.....	FC	KAAA	125 (2,400), 187 (1,605), 474 (632.5), 500 (600), 5,045 (56.11), 11,230 (26.55), 16,535 (17.704)	PG	N		
Manila, P. I., radio.....	FX	KAX	19,930 (15.053), 19,980 (15.015)	PR	NNN		Radio Corporation of the Philippines. Do. Do. Do.
Manila, P. I., radio.....	FX	KAY	14,980 (20.03)	PR	NNN		
Do.....	FX	KAZ	9,970 (30.09), 9,990 (30.03)	PR	NNN		

Do.	KBI	FX	21,130 (14,108), 21,140 (14,191)										Do.		
Do.	KBJ	FX	13,240 (22,60)										Do.		
Do.	KBK	FX	6,080 (44.91), 6,080 (44.84)										Do.		
Do.	KBO	FX	5,145 (58.31), 5,220 (52.45), 5,785 (52.31), 5,765 (52.088), 5,941 (50.5)										Philippine insular government. Radio Corporation of the Philippines.		
Do.	KTN	FX	10,910 (27.5), 16,240 (18.473)										Do.		
Do.	KTO	FX	7,980 (37.59), 8,120 (36.95)										Do.		
Do.	KTP	FX	10,910 (27.5)										Do.		
Do.	KTR	FX	402 (650), 5,585 (53.885), 11,170 (26.84), 16,755 (17.89), 17,600 (17.045)										M. R. T. Co.		
Manila, P. I., radio	KTY	FC, FX													
Manila, P. I.	KUA	FX	5,000 (60), 5,505 (54.5), 7,317.07 (41)										Panabutan Lumber & Plantation Co.		
Manila, P. I., radio	KUH	FC, FX	11,110 (25.98), 16,665 (17.96)										Robert Dollar Co.		
Manila, P. I.	KUS	FX	18,220 (16.465)										Radio Corporation of the Philippines.		
Do.	KUV	FX	12,280 (24.48)										Do.		
Do.	KUW	FX	9,110 (32.03)										Do.		
Manila, P. I., radio	KUZ	FC	7,475 (40.13), 9,820 (30.55), 14,950 (20.07), 16,400 (16.31)										Robert Dollar Co.		
Manila, P. I.	KZF	FC	4,825 (62.17)										Cadwallader Gibson Lumber Co.		
Manistique, Mich., radio #	KWM	FC, FX	174 (1,725), 410 (730), 425 (705), 454 (660)										Wabash Radio Corporation.		
Manitowoc, Wis., radio #	WXX	FC, FX	174 (1,725), 410 (730), 425 (705), 454 (660)										Do.		
Marion, Mass., radio.	WCV	FC	111 (2,705), 117 (2,565), 125 (2,400), 129 (2,325), 137 (2,190), 141 (2,130), 143 (2,100), 406 (740), 500 (600), 525 (54.3), 6,455 (48.47), 6,470 (46.37), 8,430 (35.69), 11,050 (27.15), 12,640 (23.73), 12,580 (23.83), 16,580 (18.094), 16,740 (17.921), 21,800 (13.724), 21,900 (13.699), 22,100 (13.575)											R. M. C. A.	
Do.	WIM	FC	406 (740), 500 (600)										Do.		
Marion, Mass.	WRQ	FC	22.35 (13.423)										R. C. A. Communications (Inc.).		
Do.	WSO	FX	25.8 (11.623)										Do.		
Marshall, Calif. (See Bolinas)	KET	FC											G. E. Maddox.		
Mary Island Lighthouse, Alaska	KLJ	FC	480 (625), 500 (600)										Federal-State Marketing Service.		
Marysville, Calif.	KGJH	FX	3,250 (62.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97)												
Marysville, Mich.	WPV	FX	3,184 (94.22)										Detroit Edison Co.		
Maui, P. I., radio (Dayao)	KPZ	FC, FX	315 (950), 500 (600)										Philippine insular government.		
Maua Loa, Hawaii, radio (island of Molokai)	KGOT	FC, FX	2,596 (115.55), 2,854 (105.12)										Libby Communications (Inc.).		
Mazama (permanently moored vessel at Herendeen Village, Alaska)	KHE	FX	429 (700), 500 (600)										Everett Packing Co.		
McCarney, Tex.	KSZ	FX	6,243.5 (48.05)										Texas Pipe Line Co.		
Medford, Oreg. (municipal airport)	KGE	FA, FX	278 (1,050), 3,172 (94.57)										Beeing Air Transport (Inc.).		
Memphis, Tenn.	WPI	FX	274 (1,095), 3,420 (87.7), 6,515 (46.05)										Inland Waterways Corporation.		
Menominee, Mich., radio	WDM	FC, FX	174 (1,725), 410 (730), 425 (705), 454 (660)										Wabash Radio Corporation.		
Miami, Fla. (Dinner Key)	WGF	FA, FX	278 (1,080), 3,070 (97.7), 5,660 (52.72), 12,210 (24.51)										New York, Rio & Buenos Aires Line (Inc.).		
Miami, Fla.	WKDL	FA, FX	278 (1,080), 333 (900), 414 (725), 500 (600), 2,662 (112.69), 3,070 (97.71), 5,680 (52.72), 6,350 (47.24), 8,015 (37.43), 12,210 (24.57)										Pan American Airways (Inc.).		
Do.	WNDA	FX	2,440 (123)										Police department, city of Miami.		
Do.	WNH	FX	3,184 (94.2)										Florida Power & Light Co.		
Mt.land, Tex.	KGSU	FA, FX	278 (1,080), 3,088 (97.15), 3,460 (86.7), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)										Aeronautical Radio (Inc.).		

See footnotes on pp. 30 and 31.

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
Midway Island, Hawaii.....	FC	KYN	500 (600), 540 (555)	P	X	Commercial Pacific Cable Co.
Millford, Ohio.....	FX	WNDD	3,310 (90.69), 4,565 (65.71), 4,655 (65.43), 4,665 (65.14), 4,615 (65), 4,625 (64.86), 4,635 (64.72), 4,645 (64.58), 4,655 (64.44), 4,665 (64.30), 4,675 (64.17), 4,685 (64.03), 4,695 (63.89), 4,705 (63.76), 5,095 (58.88), 5,105 (58.76), 5,115 (58.65), 5,125 (58.53), 5,135 (58.42), 5,145 (58.30), 5,155 (58.19), 5,165 (58.08), 5,175 (57.97), 5,185 (57.85), 5,195 (57.74), 5,205 (57.63), 5,885 (50.97), 5,900 (50.84)	PR	N	City of Minneapolis police depart- ment
Minneapolis, Minn.....	FX	WNDL	2,416 (124.17)	P	X	Do.
Do.....	FC	KQP	274 (1,095), 3,420 (97.7), 6,515 (46.05)	P	X	Inland Waterways Corporation.
Do.....	FX	WLP	3,184 (94.2)	PG, PR	X	Northwestern States Power Co.
Mobile, Ala., radio.....	FC, FX	WNN	143 (2,100), 147 (2,040), 442 (680), 500 (600), 4,148 (72.324), 5,525 (54.288), 6,785 (43.22), 10,470 (28.65), 11,050 (27.15), 11,250 (26.57), 12,970 (23.13), 13,180 (22.76), 16,575 (18.10), 22,100 (13.573), 22,580 (13.256)	P	(*)	T. R. T. Co.
Mobile, Ala.....	FC, FX	WPP	143 (2,100), 365 (1,820), 274 (1,095), 438 (6,850), 500 (600), 3,420 (97.7), 6,515 (46.05)	P	X	Inland Waterways Corporation.
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.
Montague, Calif.....	FA, FX	KGSK	278 (1,080), 3,070 (97.7), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)	P	X	Aeronautical Radio (Inc.).
Mount Baker (moored vessel near Ugashik, Alaska.	FC	KYD	462 (650), 500 (600)	P	X	Red Salmon Canning Co.
Mussel Rock, Calif.....	FX	KGQ	7,430 (40.38), 7,445 (40.29), 9,410 (31.88), 10,930 (27.45), 14,800 (20.15), 14,890 (20.13), 16,320 (18.24), 22,700 (13.219), 27,000 (11.11), 460 (650), 500 (600), 4,115 (72.886), 5,355 (44.3), 6,515 (46.05), 8,630 (34.76), 11,020 (27.22), 11,690 (27.15), 16,380 (18.094), 16,900 (17.75), 22,100 (13.575), 22,160 (13.538)	PG	N	Robert Dollar Co.
Mussel Rock, Calif., radio.....	FC	KTK	16,900 (17.75), 22,100 (13.575), 22,160 (13.538)	P	N	Globe Wireless (Ltd.).
Naga-Naga, P. I.....	FX	KZFT	3,320 (120.3)	P	X	Mindanao Lumber Co.
Naknek, Alaska (Bristol Bay).....	FC	KJI	170 (1,370), 246 (1,220), 372 (1,105), 460 (650), 500 (600)	PG, PR	X	Nakat Packing Corporation.
Naknek, Alaska, radio.....	FC, FX	KLIT	219 (1,370), 462 (650), 500 (600)	P	X	Alaska Packers Association.
Naknek, Alaska.....	FC, FX	KMK	180 (1,666), 414 (726), 500 (600)	P	X	Naknek Packing Co.
Do.....	FC, FX	KOM	500 (600)	P	X	Northwestern Fisheries Co.
Naknek, Alaska (Hyades, moored vessel).	FX	KFB	500 (600)	P	X	Red Salmon Canning Co.
Needham, Mass.....	FX	WJK	7,370 (40.71), 7,835 (38.20), 15,670 (19.145), 15,880 (18.802)	P	(*)	Press Wireless (Inc.).
Nelle Juan, Alaska.....	FC, FX	KDD	178 (1,186), 160 (650), 500 (600)	PG, PR	X	Copper River Packing Co.
Nelson Lagoon, Alaska.....	FC, FX	KXV	493 (675), 500 (600)	P	X	Pacific American Fisheries.
Newark, N. J.....	FX	WAQ	3,115 (94.09), 3,165 (91.8), 3,244 (92.3)	P	X	Westinghouse Electric & Mfg. Co.
Do.....	FX	WHV	3,115 (94.09), 3,244 (92.3)	P	X	Public Service Electric & Gas Co.
New Brunswick, N. J.....	FX	WAB	9,400 (31.61), 14,500 (20.27)	PR	N	R. C. A. Communications (Inc.).
Do.....	FX	WAC	9,470 (31.68), 13,000 (21.53)	PR	N	Do.
Do.....	FX	WAD	9,500 (31.59), 13,870 (21.63)	PR	N	Do.

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
New York, N. Y.	FA, FX	WGE	278 (1,080), 3,070 (97.7), 5,600 (52.72), 6,200 (48.39), 12,160 (24.63), 12,210 (24.51)	P	X	New York, Rio & Buenos Aires Line (Inc.)
New York, N. Y., radio.	FC	WHD	5,645 (53.144), 6,645 (45.84), 8,250 (36.36), 11,260 (26.64), 16,500 (18.82)	PG	N	New York Times Co.
New York, N. Y.	FX FX	WJD WKDX	8,100 (37.01) 1,684 (178.16)	P P	X N	International News Service City of New York, department of plant and structures.
New York, N. Y., radio (Borough of Brooklyn)	FC	WNY	135 (2,220), 143 (2,100), 442 (680), 500 (600), 4,188 (71.63), 5,525 (54.208), 11,060 (27.15), 12,550 (23.90)	PG	N	R. M. C. A.
New York, N. Y., radio (telephone only)	FC	WOZ	3,422.5 (87.66)	PG	X	American Telephone & Telegraph Co.
New York, N. Y., radio (see Garden City, N. Y.)	FC	WPN	438 (685), 500 (600)	PG, P	X	Columbia River Packers Association (Inc.)
New York, N. Y.	FC	WPY	131 (2,260), 143 (2,100), 418 (720), 500 (600)	P	N	City of New York police department.
New York, N. Y., radio.	FC	WSP	256 (1,170), 272 (1,105), 460 (650), 500 (600)	PG	X	M. R. T. Co.
North Carolina.	FA, FX	WRDN	278 (1,080), 2,065 (112.69), 3,070 (97.71), 5,600 (52.72)	P	X	Pan American Airways (Inc.)
North Island, Oreg., radio.	FC	KGN	460 (650), 500 (600)	P	X	Coos Bay Wireless Telegraph Co.
North Platte, Nebr. (municipal air- port)	FA, FX	KMR	278 (1,080), 3,172 (91.57), 5,600 (53)	P	X	Boeing Air Transport (Inc.)
Nushagak, Alaska, radio.	FC, FX	KLJ	262 (1,145), 272 (1,105), 425 (705), 500 (600)	PG, P	X	Columbia River Packers Association (Inc.)
Nushagak, Alaska.	FC, FX	KNI	180 (1,665), 414 (725), 500 (600)	P	X	Northwestern Fisheries Co.
Nushagak, Alaska, radio.	FA, FX	KNO	256 (1,170), 272 (1,105), 460 (650), 500 (600)	PG, P	X	Libby, McNeil & Libby.
Nushagak, Alaska.	FC, FX	KZV	500 (600), 3,490 (86)	P	X	Alaska Salmon Co.
Oakland, Calif. (Oakland Airport)	FA, FX	KFO	278 (1,080), 3,172 (91.57), 5,600 (53)	P	X	Boeing Air Transport (Inc.)
Oakland, Calif.	FA, FX	KGSB	(27.43), 12,160 (24.63), 3,460 (86.70), 6,350 (47.24), 8, 015 (37.43)	P	X	Aeronautical Radio (Inc.)
Ocean Gate, N. J., radio (telephone)	FC	WOO	4,752.5 (63.43), 8,630 (34.76), 12,840 (23.36), 17,120 (17.523)	PG	X	American Telephone & Telegraph Co.
Omanha, Nebr. (Fort Crook Air Mail Aid)	FA, FX	KMP	278 (1,080), 3,172 (91.57), 5,600 (53)	P	X	Boeing Air Transport (Inc.)
Palo Alto, Calif.	FX	WNP	3,184 (94.2)	PG	X	Florida Power & Light Co.
Palm Beach, Fla., radio.	FC	WOB	119 (2,520), 143 (2,100), 394 (760), 500 (600)	P	N	R. M. C. A.
Palo Alto, Calif., radio (near)	FC	KFS	107 (2,865), 123 (2,400), 443 (720), 418 (720), 500 (600), 5,525 (54.34), 8,600 (34.52), 11,050 (27.15), 15,000 (22.97), 16,580 (18.04), 16,980 (17.663), 21,580 (13.002), 22,100 (13.575), 6,815 (44.70), 6,875 (43.64), 7,455 (39.69), 7,625 (38.65), 7,670 (38.11), 7,700 (38.81), 7,757.5 (38.73), 7,745 (38.74), 7,752.5 (38.7), 7,760 (38.66), 8,075 (37.18), 8,110 (34.44), 8,850 (33.0), 9,070 (33.44), 9,980 (33.63), 9,990 (33.37), 10,600 (32.08), 9,200 (32.26), 10,150 (31.29), 10,600 (32.08), 10,810 (27.75), 10,820 (27.73), 10,830 (27.71), 10,800 (27.55), 13,000 (23.03), 13,015 (23.05), 13,630 (22.02), 13,750 (21.82), 13,000 (21.49), 14,080 (20.44), 14,095 (20.42), 14,710 (20.39), 13,725 (50.37), 14,840 (50.26), 14,755 (50.35), 14,770 (50.11), 17,140 (17.603), 17,430 (17.222), 17,660 (16.988), 17,680 (16.968), 17,700 (16.949), 18,260 (16.423), 18,730 (15.974),			
Palo Alto, Calif. (near)	FX	KNK		PR	N	Do.

RADIO STATIONS OF THE UNITED STATES

Do.	FX	KNW	PR	N	Do.
		19,540 (15,253), 19,560 (15,327), 19,580 (15,322), 19,600 (15,309), 19,620 (15,291), 19,740 (15,198), 20,300 (14,778), 20,960 (14,240), 21,520 (14,082), 22,080 (13,926), 22,640 (13,770), 23,200 (13,614), 23,760 (13,458), 24,320 (13,302), 24,880 (13,146), 25,440 (12,990), 26,000 (12,834), 26,560 (12,678), 27,120 (12,522), 27,680 (12,366), 28,240 (12,210), 28,800 (12,054), 29,360 (11,898), 30,000 (11,742), 30,600 (11,586), 31,200 (11,430), 31,800 (11,274), 32,400 (11,118), 33,000 (10,962), 33,600 (10,806), 34,200 (10,650), 34,800 (10,494), 35,400 (10,338), 36,000 (10,182), 36,600 (10,026), 37,200 (9,870), 37,800 (9,714), 38,400 (9,558), 39,000 (9,402), 39,600 (9,246), 40,200 (9,090), 40,800 (8,934), 41,400 (8,778), 42,000 (8,622), 42,600 (8,466), 43,200 (8,310), 43,800 (8,154), 44,400 (8,000), 45,000 (7,844), 45,600 (7,688), 46,200 (7,532), 46,800 (7,376), 47,400 (7,220), 48,000 (7,064), 48,600 (6,908), 49,200 (6,752), 49,800 (6,596), 50,400 (6,440), 51,000 (6,284), 51,600 (6,128), 52,200 (5,972), 52,800 (5,816), 53,400 (5,660), 54,000 (5,504), 54,600 (5,348), 55,200 (5,192), 55,800 (5,036), 56,400 (4,880), 57,000 (4,724), 57,600 (4,568), 58,200 (4,412), 58,800 (4,256), 59,400 (4,090), 60,000 (3,934), 60,600 (3,778), 61,200 (3,622), 61,800 (3,466), 62,400 (3,310), 63,000 (3,154), 63,600 (3,000), 64,200 (2,844), 64,800 (2,688), 65,400 (2,532), 66,000 (2,376), 66,600 (2,220), 67,200 (2,064), 67,800 (1,908), 68,400 (1,752), 69,000 (1,596), 69,600 (1,440), 70,200 (1,284), 70,800 (1,128), 71,400 (1,000), 72,000 (884), 72,600 (768), 73,200 (652), 73,800 (536), 74,400 (420), 75,000 (304), 75,600 (188), 76,200 (72), 76,800 (56), 77,400 (40), 78,000 (24), 78,600 (8), 79,200 (8), 79,800 (8), 80,400 (8), 81,000 (8), 81,600 (8), 82,200 (8), 82,800 (8), 83,400 (8), 84,000 (8), 84,600 (8), 85,200 (8), 85,800 (8), 86,400 (8), 87,000 (8), 87,600 (8), 88,200 (8), 88,800 (8), 89,400 (8), 90,000 (8), 90,600 (8), 91,200 (8), 91,800 (8), 92,400 (8), 93,000 (8), 93,600 (8), 94,200 (8), 94,800 (8), 95,400 (8), 96,000 (8), 96,600 (8), 97,200 (8), 97,800 (8), 98,400 (8), 99,000 (8), 99,600 (8), 100,000 (8).			
Palo Alto, Calif.	FX	KWTV	PR	N	Do.
Panabutan, P. I., radio (Cotabatuans Islands)	FX, F, C, FX	KUC, KKB	P, PG, PR	X (13)	Panabutan Lumber & Plantation Co. Philippine insular government.
Panhandle City, Tex.	FX	KFH	P	X	Marland Pipe Line Co.
Pasadena, Calif.	FX, F, C, F, X	KGI, KAM	P, PG, PR	X, X (4)	City of Pasadena. Philippine insular government.
Passaic, N. J.	FX	WPDJ	P	N	City of Passaic department of public safety.
Peoria, Ill.	FX	WNDJ	PR	N	Universal Wireless Communication Co. (Inc.).
Philadelphia, Pa.	FX	WJG	P	X	Press Wireless (Inc.).
Do.	FX	WJV	P	X	Philadelphia Electric Co.
Philadelphia, Pa., radio.	FC	WNWP	PG	N	Tidewater Wireless Telegraph Co.
Philadelphia, Pa.	FX	WPDJ	P	X	City of Philadelphia, bureau of police.
Phoenix, Ariz.	F, A, F, X	KGSI	P	X	Aeronautical Radio (Inc.).

See footnotes on pp. 30 and 31.

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
Pillar Bay, Alaska.....	FX	KYV	500 (600)	P	X	Pacific-American Fisheries.
Point Barrow, Alaska.....	FX	KUL	180 (1,665), 420 (700), 500 (600)	P	X	Alaska Packers Association.
Plainfield, Ill.....	FX	WKDE	5,900 (50.85), 8,810 (34.06)	PR	X	Universal Wireless Communication Co. (Inc.).
Point Reyes, Calif. (Bolinas).....	FX	KDU	24 (12,500)	PR	N	R. C. A. Communications (Inc.).
Ponca City, Okla.....	FX	KFF	6,693.5 (45.3)	P	X	Marland Pipe Line Co.
Do.....	FX	KSF	1,600 (187.5), 1,652 (181.6), 1,664 (180.29), 1,680 (178.6), 1,704 (175.6)	P	X	Continental Oil Co.
Port Alexander, Alaska.....	FC, FX	KPR	180 (1,665), 246 (1,220), 410 (730), 500 (600)	PR	X	Karl Hansen.
Port Alsworth, Alaska.....	FC, FX	KLW	180 (1,665), 445 (655), 500 (600)	P	X	Alaska Pacific Salmon Corporation.
Port Armstrong, Alaska.....	FC, FX	KHH	180 (1,665), 462 (650), 500 (600)	P	X	Buchan & Heinen Packing Co.
Port Arthur, Tex., radio.....	FC, FX	WPA	131 (2,200), 448 (2,100), 418 (720), 500 (600)	PG, PR	N	R. M. C. A.
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, Ore. (See Hillsboro, Ore.).....	FX	KPK	2,452 (122.34)	P	N	City of Portland bureau of police.
Do.....	FA, FX	KGSW	278 (1,080), 3,070 (97.71), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)	P	X	Aeronautical Radio (Inc.).
Do.....	FX	KLB	3,184 (94.2)	P	X	Northwestern Electric Co.
Portland, Ore., radio.....	FC	KPK	141 (2,130), 143 (2,100), 475 (630), 500 (600)	PG	N	R. M. C. A.
Portland, Ore. (Swan Island Airport).....	FA, FX	KVO	248 (1,080), 3,172 (94.57), 4,660 (63)	P	X	Aeronautical Radio (Inc.).
Port Moller, Alaska, radio.....	FC, FX	KWR	292 (1,350), 252 (1,100), 425 (705), 500 (600)	PG, PR	X	R. M. C. A.
Prince of Wales Island, Alaska.....	FX	KQIT	178 (1,875), 191 (1,500)	P	X	Starr-Collinson Packing Co.
Pueblo, Colo.....	FA, FX	KGSR	278 (1,080), 3,070 (97.71), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)	P	X	Aeronautical Radio (Inc.).
Puerto Princessa, P. I., radio (Palawan).....	FC, FX	KIV	500 (600)	PG, PR	(?)	Philippine Insular government.
Punta Gorda, Fla.....	FX	WNS	3,184 (94.2)	P	X	Florida Power & Light Co.
Quadra, Alaska.....	FX	KOR	178 (1,705), 180 (1,665), 420 (700), 500 (600)	P	X	Northwestern Fisheries Co.
Quincy, Mass. ⁴³	FC	WPC	438 (885), 500 (600)	P	X	Bethlehem Shipbuilding Corporation.
Redding, Alaska, radio.....	FC, FX	KWV	500 (700), 500 (600)	PG, PR	X	Joseph T. Bauer.
Redding, Calif. (municipal airport).....	FA, FX	KTV	278 (1,080), 3,172 (94.57), 5,660 (53)	PG, P	X	Boeing Air Transport (Inc.).
Red Bluff Bay, Alaska, radio.....	FC, FX	KXS	400 (7,500), 52 (9,170)	PG, P	X	Baranof Packing Co.
Reno, Nev., Alaska, radio.....	FA, FX	KJE	278 (1,080), 425 (705), 500 (600)	P	X	Boeing Air Transport (Inc.).
Richmond, Ind.....	FX	WPDH	278 (1,080), 3,172 (94.57), 5,660 (53)	P	X	City of Richmond police department.
Rochester, N. Y.....	FX	WPDR	2,416 (124.7) 1,712 (173.23)	P	X	City of Rochester department of pub- lic safety.
Rockland, Me. (near).....	FC	WAG	121 (2,480), 418 (720), 500 (600), 4,106 (71.490), 5,525 (54.3), 8,670 (34.6), 11,050 (27.15), 11,360 (26.36), 16,580 (18.094), 16,600 (17.731), 22,400 (13.576), 21,620 (13.870)	PG	N	M. R. T. Co.
Rockport, Wash. (near).....	FX	WJE	3,160 (94.3), 3,166 (94.5), 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.
Rock Springs, Wyo. (municipal air- port).....	FA, FX	KQC	278 (1,080), 3,172 (94.57), 5,600 (53)	P	X	Boeing Air Transport (Inc.).
Rocky Point, N. Y.....	FX	WJW	13,480 (22.255)	PR	N	R. C. A. Communications (Inc.).
Do.....	FX	WBU	21,260 (14.111)	PR	N	Do.

Do.	9,480 (31,65)	WDA	PR	Do.
Do.	6,712.5 (44,65)	WDB	PR	Do.
Do.	18,900 (15,873)	WDS	PR	Do.
Do.	10,610 (28,273)	WEA	PR	Do.
Do.	6,935 (43,269)	WEB	PR	Do.
Do.	8,930 (33,504)	WEC	PR	Do.
Do.	10,630 (28,272)	WED	PR	Do.
Do.	6,920 (43,353)	WEE	PR	Do.
Do.	9,400 (31,612)	WEE	PR	Do.
Do.	7,415 (40,450)	WEG	PR	Do.
Do.	6,740 (44,511)	WEI	PR	Do.
Do.	8,950 (33,52)	WEJ	PR	Do.
Do.	7,400 (40,541)	WEL	PR	Do.
Do.	7,402.5 (40,500)	WEM	PR	Do.
Do.	6,952.5 (43,116)	WEN	PR	Do.
Do.	6,710 (44,700)	WER	PR	Do.
Do.	9,450 (31,746)	WES	PR	Do.
Do.	9,470 (31,679)	WET	PR	Do.
Do.	6,942.5 (43,212)	WEV	PR	Do.
Do.	13,450 (22,305)	WEX	PR	Do.
Do.	6,927.5 (43,306)	WEZ	PR	Do.
Do.	18,980 (15,806)	WFX	PR	Do.
Do.	13,420 (22,355)	WHR	PR	Do.
Do.	13,930 (21,836)	WHF	PR	Do.
Do.	4,954 (74)	WHG	PR	Do.
Do.	13,870 (21,629)	WHY	PR	Do.
Do.	13,465 (22,280)	WKC	PR	Do.
Do.	13,435 (22,330)	WKD	PR	Do.
Do.	9,460 (31,712)	WKJ	PR	Do.
Do.	8,940 (33,557)	WKL	PR	Do.
Do.	18,860 (15,807)	WKM	PR	Do.
Do.	15,970 (18,785)	WKO	PR	Do.
Do.	6,950 (43,165)	WKP	PR	Do.
Do.	16,000 (18,75)	WQQ	PR	Do.
Do.	14,830 (20,220)	WQU	PR	Do.
Do.	16,030 (18,715)	WKW	PR	Do.
Do.	17,900 (16,760)	WLL	PR	Do.
Do.	58.5 (5,125) to 61.53 (4,875)	WNL	PR	Do.
Do.	13,840 (21,670)	WPE	PR	Do.
Do.	21,220 (14,138)	WQA	PR	Do.
Do.	17,940 (16,722)	WQB	PR	Do.
Do.	18,960 (15,823)	WQC	PR	Do.
Do.	18,920 (18,856)	WQD	PR	Do.
Do.	17,920 (16,741)	WQE	PR	Do.
Do.	15,040 (19,947)	WQG	PR	Do.
Do.	18,880 (15,860)	WQH	PR	Do.
Do.	17,880 (16,779)	WQI	PR	Do.
Do.	21,240 (14,124)	WQJ	PR	Do.
Do.	18,220 (16,465)	WQK	PR	Do.

American Telephone & Telegraph Co.
R. C. A. Communications (Inc.).

See footnotes on pp. 30 and 31.

RADIO DIVISION, DEPARTMENT OF COMMERCE

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
Rocky Point, N. Y.	FX	WQL	14,815 (20.260)	PR	Z	R. C. A. Communications (Inc.).
Do.	FX	WQM	170 (1.765)	PR	Z	Do.
Do.	FX	WQN	5,263 (57)	PR	Z	Do.
Do.	FX	WQP	6,725 (44.6)	PR	Z	Do.
Do.	FX	WQQ	13,900 (21.583)	PR	Z	Do.
Do.	FX	WQR	20,250 (14.808)	PR	Z	Do.
Do.	FX	WQS	16,015 (18.732)	PR	Z	Do.
Do.	FX	WQT	13,915 (21.559)	PR	Z	Do.
Do.	FX	WQU	13,885 (21.605)	PR	Z	Do.
Do.	FX	WQV	14,800 (20.27)	PR	Z	Do.
Do.	FX	WQW	21,300 (14.085)	PR	Z	Do.
Do.	FX	WQX	20,180 (14.866)	PR	Z	Do.
Do.	FX	WQY	20,100 (14.925)	PR	Z	Do.
Do.	FX	WSS	18,80 (15.957)	PR	Z	Do.
Do.	FX	WTT	18,940 (15.839)	PR	Z	Do.
Rogers City, Mich., radio st.	FC, FX	WLC	165 (1.820), 177 (1.695), 410 (730), 425 (705), 454 (660), 4,116 (72.886), 8,630 (34.76)	PG, PR	Z	Michigan Limestone and Chemical Co.
Rose Inlet, Alaska.	FX	KJC	180 (1.665), 190.11 (1.578), 500 (600)	P	X	Alaska Pacific Salmon Corporation.
Ruby (permanently moored vessel in Kogging River, Alaska).	FX	KDR	180 (1.665), 429 (700), 500 (600)	P	X	Alaska Packers Association.
Sacramento, Calif. (Mather Field).	F, FX	KFM	278 (1.030), 3,142 (95.48), 5,660 (53)	P	X	Boeing Air Transport (Inc.).
Sacramento, Calif.	FX	KRJ	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.07)	P	X	Federal-State Marketing Service, State department of agriculture (California).
Saginaw Bay, Alaska.	FC, FX	KFJ	180 (1.665), 425 (705), 500 (600)	P	X	Port Walter Herring & Packing Co.
St. Augustine, Fla.	FX	WNV	3,184 (94.2)	P	X	Florida Power & Light Co.
St. Croix Falls, Wis.	FX	WPL	do.	P	X	Northern States Power Co.
St. Louis, Mo.	FX	KGPC	1,712 (175.23)	P	X	St. Louis police department.
St. Paul, Minn.	FX	WPDS	2,416 (124.17)	P	X	City of St. Paul department of public safety.
St. Thomas, Virgin Islands.	F, FX	WBY	278 (1.080), 3,070 (97.71), 5,660 (52.72), 8,015 (37.43), 12,210 (24.57)	P	X	New York, Rio & Buenos Aires Line (Inc.).
Salinas, Calif.	FX	KRB	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.07)	P	X	Federal-State Marketing Service, State department of agriculture (California).
Saltuck, Alaska (Kasaan Bay)	FX	KWQ	343 (875), 500 (600)	P	X	Alaska Palladium Co.
Salt Lake City, Utah.	F, FX	KGTH	278 (1.080), 3,070 (97.71), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63)	P	X	Aeronautical Radio (Inc.).
Salt Lake City, Utah (municipal air- i port).	F, FX	KQD	278 (1.080), 3,172 (94.57), 5,660 (53)	P	X	Boeing Air Transport (Inc.).
San Antonio, Tex.	FX	KGOH	3,184 (94.22)	P	X	San Antonio Public Service Co.
Do.	FX	KGOY	1,712 (175.23)	P	X	City of San Antonio police department.
Do.	F, FX	KGUD	278 (1.080), 3,484 (86.1), 5,600 (53.57)	P	X	Aeronautical Radio (Inc.).
San Antonio, Tex. (Wimburn Field)	F, FX	KGJA	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.07)	P	X	Federal-State Marketing Service.
San Diego, Calif.	F, FX	KGQZ	278 (1.080), 3,172 (94.6), 5,660 (53)	P	X	Aeronautical Radio (Inc.).

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Do.	FA, FX	KGSK	278 (1,080), 3,088 (97.15), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63).	P	X	Do.
Sanford, Fla.	FX	WNT	3,134 (94.2)	P	X	Florida Power & Light Co.
San Francisco, Calif. (See Palo Alto, near.)	FX	KFS		P	X	City of San Francisco police and fire departments.
San Francisco, Calif.	FX	KGPD	1,396 (187.97), 2,410 (124.5)	P	N	Robert Dollar Co.
San Francisco, Calif. (See Mussel-rock, Calif.)	FX	KGQ		P	X	Press Wireless (Inc.).
San Francisco, Calif.	FX	KOP	7,340 (40.8), 77,355 (40.79), 7,370 (40.71), 7,820 (38.36), 7,835 (38.26), 7,955 (37.72), 15,610 (19.218), 15,640 (19.182), 15,670 (19.145), 15,730 (19.072), 15,760 (19.036), 15,880 (18.892), 15,910 (18.856), 15,750 (19.072)	P	X	Do.
Do.	FX	KOQ		P	X	Federal-State Marketing Service, State department of agriculture (California).
San Francisco, Calif. (See Bolinas)	FX	KPH		P	X	Examiner Printing Co.
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	Do.
San Francisco, Calif. (See Mussel-rock, Calif.)	FX	KTK		P	X	Philippine insular government.
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	X	Federal State Marketing Service, State department of agriculture (California).
San Francisco, P. I., radio (Camotes, Cebu).	FC, FX	KUO	435 (690), 500 (600)	P	N	Philippine insular government.
San Jose, Calif.	FX	KPY	500 (600), 1,000 (300)	PG, PR	(4)	Philippine insular government.
San Jose, P. I., radio (Mindoro Island)	FX	KRH	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97)	P	X	New York, Rio and Buenos Aires Line (Inc.).
San Juan, P. R.	FC, FX	KIY	214 (1,400), 500 (600)	P	(9)	R. C. A. Communications (Inc.).
Do.	FA, FX	WGD	3,070 (97.7), 5,690 (52.72), 12,210 (24.51)	P	X	Do.
Do.	FX	WGT	13,780 (21.771)	PR	N	Do.
Do.	FX	WGU	6,717.5 (44.659)	PR	N	Do.
Do.	FX	WGX	6,890 (43.541)	PR	N	Do.
Do.	FX	WGY	9,480 (31.646)	PR	N	Do.
Do.	FX	WGW	4,274 (70.15)	PR	N	Do.
Do.	FX	WJT	278 (1,080), 2,662 (112.66), 3,070 (97.71), 5,690 (52.72), 6,350 (47.24), 8,015 (37.43), 12,210 (24.57)	P	X	Pan American Airways (Inc.).
San Juan, P. R. (Pan American Air-port)	FA	WMDU	256 (117.2), 273 (110.3), 460 (652), 500 (600)	PG, PR	X	R. C. A. Communications (Inc.).
San Juan, P. R.	FX	WQZ	15,460 (19.405), 15,985 (18.768)	PR	X	Merritt-Chapman & Scott Corporation.
Santa Barbara, Calif.	FX	KHR	40	P	X	Do.
Santa Cruz Island, Calif.	FX	KGI		P	X	Alaska Fishermen's Cooperative Packing Co.
Santa Flavia (moored vessel in Nushagak River, Alaska)	FC, FX	KDI		PG, PR	(4)	Federal-State Marketing Service.
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	Santa Maria Air Lines (Inc.)
Do.	FX	KGK	278 (1,080), 333 (900)	P	X	Federal-State Marketing Service.
Santa Rosa, Calif.	FA, FX	KGKD	3,250 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97)	P	X	M. R. T. Co.
Do.	FX	KGHD		P	X	
Sayville, N. Y.	FX	WKI	4,395 (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 (29.60), 10,820 (27.73), 10,800 (27.55), 13,015 (23.05), 14,710 (20.39), 17,140 (17.503), 17,680 (16.968)	PR	N	

See footnotes on pp. 30 and 31.

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensese
Sayville, N. Y., radio.....	FC	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), 7,825.5 (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 (33.63), 9,390 (32.93), 10,170 (29.5), 10,400 (28.6), 10,810 (27.75), 10,890 (27.73), 10,830 (27.7), 10,890 (27.55), 13,000 (23.08), 13,015 (23.07), 13,060 (23.02), 13,750 (20.99), 13,900 (20.86), 14,680 (20.44), 14,695 (20.43), 14,710 (20.39), 14,725 (20.37), 14,740 (20.35), 14,905 (19.95), 14,770 (20.31), 17,400 (17.503), 17,460 (17.422), 17,422.5 (17.463), 17,680 (17.088), 17,700 (16.949), 18,252 (16.888), 18,580 (16.674), 19,540 (15.253), 19,550 (15.257), 19,580 (15.227), 19,580 (15.222), 19,600 (15.206), 19,620 (15.190), 19,620 (15.184), 19,640 (15.168), 20,300 (14.778), 20,330 (14.756), 20,350 (14.741), 20,370 (14.725), 102 (27.75), 102 (27.562), 143 (21.09), 302 (765), 500 (600), 5,595 (54.3), 5,675 (52.93), 5,770 (54.60), 11,630 (27.15), 11,360 (27.53), 13,380 (22.33), 15,690 (22.37), 16,380 (18.694), 16,900 (17.75), 22,000 (13.573), 22,700 (13.216), 5,885 (50.975), 10,610 (29.97).	PR	N	M. R. T. Co.
Do.....	FC	WSL	102 (27.75), 102 (27.562), 143 (21.09), 302 (765), 500 (600), 5,595 (54.3), 5,675 (52.93), 5,770 (54.60), 11,630 (27.15), 11,360 (27.53), 13,380 (22.33), 15,690 (22.37), 16,380 (18.694), 16,900 (17.75), 22,000 (13.573), 22,700 (13.216), 5,885 (50.975), 10,610 (29.97).	PG	X	Do.
Seabeyville, N. J.....	FC	WKDA	1,596 (187.97), 2,416 (124.17)	PR	X	Universal Wireless Communications Co. (Inc.).
Seaw No. 5 (moored vessel near Nushagak, Alaska).	FC	KHY		P	X	Alaska Salmon Co.
Seattle, Wash.....	FC, FX	KGPA	1,596 (187.97), 2,416 (124.17)	P	X	City of Seattle fire and police depart- ments.
Do.....	FA, FX	KGON	3,106 (68.6)	PR	X	Alaska Washington Airways (Inc.).
Do.....	FA, FX	KGSS	278 (106.80), 3,070 (97.71), 3,400 (86.70), 6,350 (47.24), 8,015 (37.49), 12,180 (24.63).	P	X	Aeronautical Radio (Inc.).
Do.....	FX	KPA	5,900 (50.85)	PR	X	Lincoln L. Jackson.
Do.....	FC	KPE	143 (21.06), 163 (18.40), 400 (650), 500 (600), 5,525 (54.3), 6,515 (48.04), 8,630 (34.77), 11,080 (27.15), 11,140 (26.93), 16,380 (18.69), 16,300 (17.81), 3,160 (94.3), 3,160 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,190 (94.3), 3,190 (94.8), 3,244 (92.3), 3,000 (53)	PG	N	City of Seattle harbor department.
Seattle, Wash. (Boeing Field)	FX	KVW	3,160 (94.3), 3,160 (94.8), 3,172 (94.6), 3,178 (94.4), 3,184 (94.2), 3,190 (94.3), 3,190 (94.8), 3,244 (92.3), 3,000 (53)	P	X	City of Seattle, light department.
Seattle, Wash. (Boeing Field)	FA, FX	KZI	278 (106.80), 3,172 (94.57), 3,000 (53)	P	X	Aeronautical Radio (Inc.)
Sebastopol, Calif.....	FX	KRD	3,230 (92.3), 4,244 (70.7), 5,365 (55.92), 8,810 (34.05), 10,010 (29.97)	P	X	Federal-State Marketing Services, State Department of Agriculture (California), Adrian Lippke.
Seldovia, Alaska, radio.....	FC, FX	KFA	480 (62.5), 500 (600)	P, P	(4)	C. Ohlwevern Co.
Shakam, Alaska.....	KVA	KVA	178.06 (1,765), 180 (1,665), 420 (700), 500 (600)	P, P	X	Fisheries Co.
Sheboygan, Wis., radio #4.....	FC, FX	WSK	410 (730), 425 (705), 454 (600)	P, P	(4)	C. Kels Coastal Co.
Shepard Point, Alaska, radio.....	FC, FX	KRU	212 (1,415), 210 (1,370), 274 (1,095), 425 (705), 500 (600)	P, P	(4)	Shepard Point Packing Co.
Sherwood, Oreg., radio.....	FC	KKK	400 (680), 500 (600), 4,110 (72.866), 5,525 (54.3), 6,515 (46.03), 8,630 (34.76), 11,020 (27.22), 11,050 (27.15), 11,080 (27.08), 11,140 (26.93), 11,200 (26.79), 16,380 (18.694), 16,900 (17.75), 22,100 (13.575), 22,160 (13.538).	P, P	N	Globe Wireless (Ltd.).
Siasi, P. I., radio (Subh).....	FC, FX	KED	462 (660), 500 (600), 667 (460)	PG, PR	(4)	Philippine insular government.
Sipatco, P. I.....	FX	KZFN	4,825 (62.17)	P		Catwallader Gibson Lumber Co.

Skellytown, Tex.	FX	187.02 (1,600)				X	Skelly Oil Co.	
Snag Point, Alaska	FC, FX	180 (1,665), 429 (700), 500 (600)				X	Alaska Packers Association.	
Snug Harbor, Alaska	FX	182 (1,650), 500 (600)				X	Snug Harbor Packing Co.	
Sogod, P. I., radio (Leyte)	FC, FX	414 (725), 500 (600)				X	Philippine Insular government.	
South Lyon, Mich.	FX	3,310 (90.63), 4,565 (65.71), 4,985 (65.43), 4,905 (65.14), 4,615 (65)				N	Universal Wireless Communication Co. (Inc.).	
South San Francisco, Calif.	FX	4,655 (64.30), 4,675 (64.17), 4,685 (64.03), 4,695 (63.89), 4,705 (63.76), 5,005 (58.89), 5,105 (58.76), 5,115 (58.65), 5,125 (58.53), 5,135 (58.42), 5,145 (58.30), 5,155 (58.19), 5,165 (58.08), 5,175 (57.97), 5,185 (57.85), 5,195 (57.74), 5,205 (57.63), 5,885 (50.97), 5,900 (50.84)						American Power News Corporation. West Penn Power Co.
Springfield, Ill.	FX	3,100 (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)				N	Universal Wireless Communication Co. (Inc.).	
Steamboat Bay, Alaska (Noyes Island)	FC, FX	250 (1,170), 268 (1,120), 274 (1,095), 425 (705), 500 (600), 2,428 (123.55), 3,100 (94.93)				X	R. R. Farish.	
Superior, Mich.	FX	3,184 (94.22)				X	Detroit Edison Co.	
Surigao, P. I., radio (Surigao)	FC, FX	226 (1,325), 364 (925), 500 (600)				(2)	Philippine Insular government.	
Syracuse, N. Y.	FA	278 (1,080), 3,452 (56.90)				X	Empire Air Transport Co. (Inc.).	
Tacoma, Wash. (municipal airport)	FC, FX	278 (1,080), 3,142 (65.48), 5,660 (53)				X	Boeing Air Transport (Inc.).	
Taku, Alaska, radio.	FC, FX	220 (1,365), 246 (1,220), 460 (630), 500 (600)				X	Libby, McNeill & Libby.	
Tampa, Fla., radio.	FC	438 (855), 500 (600), 5,525 (54.3), 8,630 (34.76)				(4)	Gulf Radio Service (George Collins Warner, Jr.).	
Tandag, P. I., radio (Surigao)	FC, FX	324 (925), 387 (775), 500 (600)				(2)	Philippine Insular government.	
Taunton, Mass.	FX	5,105 (58.76)				N	Universal Wireless Communication Co. (Inc.).	
Do.	Do.					N	Do.	
Tenakee, Alaska, radio.	FX	3,310 (90.63)				X	Superior Packing Co.	
Thihik, P. I.	FC	246 (1,220), 450 (650), 500 (600), 3,172 (94.57)				(2)	Philippine Insular government.	
Todd, Alaska.	FX	257.5 (1,165), 375 (800), 494.2 (605), 571.4 (525)				X	Peril Straits Packing Co.	
Toledo, Ohio.	FX	417 (720), 3,333 (90)				X	City of Toledo.	
Tolong, P. I.	FX	2,470 (121.5)				X	Philippine Insular government.	
Torrance, Calif., radio (Los Angeles)	FC	7,009 (42.8) 133 (2,256), 143 (2,100), 408 (735), 500 (600), 5,525 (54.3), 6,485 (46.26), 8,430 (35.56), 11,050 (27.15), 12,430 (24.14), 12,490 (24.02), 10,580 (18.094), 22,040 (13.612), 22,100 (13.575), 22,520 (13.321)				N	R. M. C. A.	
Trenton, N. J.	FX	3,310 (90.63), 4,565 (65.71), 4,985 (65.43), 4,605 (65.14), 4,615 (65)				N	Universal Wireless Communication Co. (Inc.).	

See footnotes, on pp. 30 and 31.

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
Tuckerton, N. J.	FX	WCI	18.4 (16.304)	PR	N	R. C. A. Communications (Inc.).
Do.	FX	WGG	22.1 (1.357)	PR	N	Do.
Tuckerton, N. J., radio.	FC	WSC	111 (2.705), 125 (2.400), 137 (2.190), 133 (2.255), 143 (2.100), 462 (6.50), 500 (600), 5,525 (54.3), 6,485 (46.26), 8,350 (35.93), 8,370 (35.84), 8,390 (35.76), 11,050 (27.15), 12,520 (23.96), 12,670 (23.68), 12,820 (23.40), 13,210 (22.71), 16,880 (18.091), 16,780 (17.873), 21,700 (13.825), 21,740 (13.799), 21,780 (13.774), 21,820 (13.749), 22,100 (13.575), 2,416 (124.17)	PG, PR	(9)	R. M. C. A.
Tulare, Calif.	FX	WPDA	2,416 (124.17)	P	X	City of Tulare police department.
Tulsa, Okla.	FX	WEH	187 (1,605), 429 (700), 480 (625)	P	X	Skelly Oil Co.
Tyee, Alaska.	FX	KSR	180 (1,665), 219 (1,370), 227 (1,320), 252 (1,190), 268 (1,120), 425 (705), 460 (650), 500 (600)	P	X	Sebastian Stuart Fish Co.
Ugamiak, Alaska.	FC, FX	KLP	425 (705), 460 (650), 500 (600)	PG, PR	(9)	R. M. C. A.
Ugamiak, Alaska (Port O'Brien, Kodiak Island).	FC	KVF	429 (700), 500 (600)	P	X	San Juan Fishing & Packing Co.
Ugashik, Alaska.	EX	KMU	480 (625), 500 (600)	P	X	Red Salmon Canning Co.
Ulapalaku, Hawaii (Maui Island).	FX	KGXH	48,400 (6.109)	PR	X	Mutual Telephone Co.
Do.	FX	KGXI	42,900 (6.993)	PR	X	Do.
Do.	FX	KGXJ	40,700 (7.371)	PR	X	Do.
Do.	FX	KFL	3,184 (94.2)	P	X	Northwestern Electric Co.
Underwood, Wash. (near Union Bay, Alaska, radio).	FC, FX	KON	171 (1,750), 180 (1,665), 186 (1,610), 480 (600), 2,320 (129.3)	PG, PR	N	Nakat Packing Corporation.
Uyak, Alaska, radio.	FC, FX	KHA	227 (1,320), 268 (1,120), 272 (1,105), 460 (650), 500 (600), 2,428 (123.55)	PG, PR	X	Alaska Packers Association.
Uyak, Alaska.	FX	KIIV	180 (1,665), 414 (725), 500 (600)	P	X	Northwestern Fisheries Co.
Uzink, Alaska.	FC, FX	KZU	410 (730), 500 (600), 3,148 (95.3)	P	X	Katmai Packing Co.
Vieques, P. R., radio.	FC	WGW	438 (683.9), 500 (600), 1,562 (188.44), 3,525 (84.3), 6,515 (46.05)	PG, PR	(9)	Department of the Interior, Bureau of Insular Telegraph.
View Cove, Alaska	FX	KSI	180 (1,665), 190 (1,575), 425 (705), 500 (600)	P	(4)	Pacific Coast Cement Co.
Vrac, F. I., radio (Albany)	FC, FX	KAV	218 (660.40), 760 (390), 500 (600)	PG, PR	(9)	Philippine insular government.
Waco, Tex. (municipal airport)	F, A, FX	KGUH	278 (630), 3,484 (84.0), 4,000 (53.37)	P	(9)	Aeronautical Radio (Inc.).
Wahaiwa, Hawaii, radio (Island of Hawaii)	FC	KHK	143 (2,090.03), 8,840 (30.750), 500 (600), 5,525 (54.3), 6,515 (46.05), 16,680 (18.091), 10,300 (17.751)	PG	N	Mutual Telephone Co.
Do.	FX	KGXK	49,500 (6.061)	PR	X	Do.
Do.	FX	KGXL	38,500 (7.70)	PR	X	Do.
Do.	FX	KGXM	36,300 (8.26)	PR	X	Do.
Waiuku, Hawaii.	FX	KBL	442 (680), 3,196 (93.80), 3,226 (92.99), 5,720 (52.45), 5,750 (52.17)	PR	X	Do.
Warm Springs Bay, Alaska.	FX	KNH	180 (1,665), 445 (975), 500 (600)	P	X	United States-Alaska Packing Co.
Warren, Alaska, radio.	FC, FX	KHU	222 (1,350), 272 (1,105), 460 (650), 500 (600)	PG, PR	X	R. M. C. A.
Washington, D. C.	FX	WJH	3,184 (94.2)	P	X	Permac Electric Power Co.
Do.	FX	WJM	7,340 (40.71), 7,355 (40.71), 7,820 (38.36), 7,885 (38.29), 7,955 (37.72), 15,610 (19.218), 15,640 (19.182), 15,670 (19.145), 15,730 (19.072), 15,760 (19.036), 15,880 (18.892), 15,910 (18.856)	P	X	Press Wireless (Inc.).
Do.	FX	WJX	3,184 (94.2)	P	X	Permac Electric Power Co.
Washington, D. C. (Hoover Field)	F, A, FX	WRDM	278 (1,080), 2,662 (112.69), 3,070 (97.71), 5,690 (52.72)	P	X	Pan American Airways (Inc.).

Location	Call Letters	Frequency	Power	Class	Service
Waterfall, Alaska, radio.	KZN	180 (1,665), 182 (1,650), 414 (725), 500 (600), 2,320 (120.3), 2,800 (107.1), 6,100 (49.15).		FC, FX	Nakat Packing Corporation.
Waynoka, Okla.	AB, FA	278 (1,080), 363 (765)		AB, FA	Transcontinental Air Transport (Inc.).
West Dover, Ohio, radio (Cleveland).	FC, FX	143 (2,100), 161 (1,865), 410 (730), 425 (705), 454 (600), 4,775 (62.82), 8,570 (35.01), 5,525 (54.3)		FC, FX	R. C. A.
West Palm Beach, Fla., radio.	FC	121 (2,480), 143 (2,100), 392 (765), 500 (600), 5,525 (54.3), 6,575 (45.63), 8,690 (34.52), 11,050 (27.15), 11,320 (26.50), 16,575 (18.099), 21,620 (13.876), 22,100 (13.575).		FC	M. R. T. Co.
West Palm Beach, Fla.	FX	3,184 (94.2)		FX	Florida Power & Light Co.
West Reading, Pa.	FX	257 (1,065)		FX	Pennsylvania State police.
Wichita, Kans.	FA, FX	278 (1,080), 3,070 (97.71), 3,460 (86.70), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63).		FA, FX	Aeronautical Radio (Inc.).
Wichita Falls, Tex.	FX	6,664 (45.02)		FX	Texas Pipe Line Co.
Williamsport, Md.	FX	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).		FX	Potomac Edison Co.
Williamsport, Pa.	FX	3,184 (94.2)		FX	Pennsylvania Power & Light Co.
Winslow, Ariz.	AB, FA	278 (1,080), 400 (750)		AB, FA	Transcontinental Air Transport (Inc.).
Wyandotte, Mich.	FC, FX	143 (2,100), 163 (1,840), 410 (730), 425 (705), 454 (600)		FC, FX	Michigan Wireless Telegraph Co.
Wyoming, Pa.	FC, FX	257 (1,065)		FC, FX	Pennsylvania State police.
Yakutat, Alaska, radio.	FX	2,458 (122.05)		FX	Libby, McNeill & Libby.
Youngstown, Ohio	FC, FX	222 (1,350), 252 (1,100), 268 (1,120), 524 (705), 500 (600)		FC, FX	City of Youngstown police department.
Zachar Bay, Alaska.	FC, FX	240 (1,250), 300 (1,000), 500 (600), 6,000 (50)		FC, FX	R. M. C. A.
Zamboanga, P. I., radio.	FC	500 (600), 557 (350)		FC	Philippine insular government.
Zumarraga, P. I.	FC			FC	Do.
PORTABLE					
California.	KGKN	4,116 (72.886), 8,630 (34.76)		FX	State of California, division of forestry.
Do.	KGKP	do.		FX	Do.
Do.	KGQY	383 (76.3), 414 (72.46), 2,344 (12.799)		FX	Macduff Air Lines Co.
Do.	KRN	3,250 (92.3), 4,244 (70.7), 5,365 (85.92), 8,810 (34.05), 10,010 (29.97)		FX	Federal-State Marketing Service, State department of agriculture (Calif.).
Fifth radio zone.	KHP	1,600 (187.5), 1,652 (181.6), 1,664 (180.29), 1,680 (178.6), 1,704 (176.06)		FX	Geophysical Research Corporation.
Do.	KHS	do.		FX	Do.
Do.	KHW	do.		FX	Do.
Do.	KHZ	do.		FX	Do.
Do.	KGKE	do.		FX	McCullum Exploration Co.
Louisiana and Texas No. 1.	WBB	do.		FX	Texas Co.
Louisiana, Mississippi, and Texas:	WBD	do.		FX	Do.
No. 1.	WBE	do.		FX	Do.
No. 2.	WBF	do.		FX	Do.
No. 3.	WBG	do.		FX	Do.
No. 4.	WBI	do.		FX	Do.
No. 5.	WBN	do.		FX	Do.
No. 6.	WBR	do.		FX	Do.
No. 7.	WBS	do.		FX	Do.
No. 8.	WBT	do.		FX	Do.
No. 9.	WBU	do.		FX	Do.
No. 10.	WBA	do.		FX	Do.
No. 11.	WBC	do.		FX	Do.
No. 12.	WCB	do.		FX	Do.
No. 13.	WCG	do.		FX	Do.
No. 14.	WCH	do.		FX	Do.
No. 15.	WCI	do.		FX	Do.
No. 16.	WCM	do.		FX	Do.
No. 17.	WCP	do.		FX	Do.
No. 18.	WCR	do.		FX	Do.
No. 19.	WCS	do.		FX	Do.
No. 20.	WCT	do.		FX	Do.
No. 21.	WCU	do.		FX	Do.
No. 22.	WCV	do.		FX	Do.
No. 23.	WCA	do.		FX	Do.
No. 24.	WCB	do.		FX	Do.
No. 25.	WCC	do.		FX	Do.
No. 26.	WCD	do.		FX	Do.
No. 27.	WCE	do.		FX	Do.
No. 28.	WCF	do.		FX	Do.
No. 29.	WCG	do.		FX	Do.
No. 30.	WCH	do.		FX	Do.
No. 31.	WCI	do.		FX	Do.
No. 32.	WCM	do.		FX	Do.
No. 33.	WCP	do.		FX	Do.
No. 34.	WCR	do.		FX	Do.
No. 35.	WCS	do.		FX	Do.
No. 36.	WCT	do.		FX	Do.
No. 37.	WCU	do.		FX	Do.
No. 38.	WCV	do.		FX	Do.
No. 39.	WCA	do.		FX	Do.
No. 40.	WCB	do.		FX	Do.
No. 41.	WCC	do.		FX	Do.
No. 42.	WCD	do.		FX	Do.
No. 43.	WCE	do.		FX	Do.
No. 44.	WCF	do.		FX	Do.
No. 45.	WCG	do.		FX	Do.
No. 46.	WCH	do.		FX	Do.
No. 47.	WCI	do.		FX	Do.
No. 48.	WCM	do.		FX	Do.
No. 49.	WCP	do.		FX	Do.
No. 50.	WCR	do.		FX	Do.
No. 51.	WCS	do.		FX	Do.
No. 52.	WCT	do.		FX	Do.
No. 53.	WCU	do.		FX	Do.
No. 54.	WCV	do.		FX	Do.
No. 55.	WCA	do.		FX	Do.
No. 56.	WCB	do.		FX	Do.
No. 57.	WCC	do.		FX	Do.
No. 58.	WCD	do.		FX	Do.
No. 59.	WCE	do.		FX	Do.
No. 60.	WCF	do.		FX	Do.
No. 61.	WCG	do.		FX	Do.
No. 62.	WCH	do.		FX	Do.
No. 63.	WCI	do.		FX	Do.
No. 64.	WCM	do.		FX	Do.
No. 65.	WCP	do.		FX	Do.
No. 66.	WCR	do.		FX	Do.
No. 67.	WCS	do.		FX	Do.
No. 68.	WCT	do.		FX	Do.
No. 69.	WCU	do.		FX	Do.
No. 70.	WCV	do.		FX	Do.
No. 71.	WCA	do.		FX	Do.
No. 72.	WCB	do.		FX	Do.
No. 73.	WCC	do.		FX	Do.
No. 74.	WCD	do.		FX	Do.
No. 75.	WCE	do.		FX	Do.
No. 76.	WCF	do.		FX	Do.
No. 77.	WCG	do.		FX	Do.
No. 78.	WCH	do.		FX	Do.
No. 79.	WCI	do.		FX	Do.
No. 80.	WCM	do.		FX	Do.
No. 81.	WCP	do.		FX	Do.
No. 82.	WCR	do.		FX	Do.
No. 83.	WCS	do.		FX	Do.
No. 84.	WCT	do.		FX	Do.
No. 85.	WCU	do.		FX	Do.
No. 86.	WCV	do.		FX	Do.
No. 87.	WCA	do.		FX	Do.
No. 88.	WCB	do.		FX	Do.
No. 89.	WCC	do.		FX	Do.
No. 90.	WCD	do.		FX	Do.
No. 91.	WCE	do.		FX	Do.
No. 92.	WCF	do.		FX	Do.
No. 93.	WCG	do.		FX	Do.
No. 94.	WCH	do.		FX	Do.
No. 95.	WCI	do.		FX	Do.
No. 96.	WCM	do.		FX	Do.
No. 97.	WCP	do.		FX	Do.
No. 98.	WCR	do.		FX	Do.
No. 99.	WCS	do.		FX	Do.
No. 100.	WCT	do.		FX	Do.

See footnotes on pp. 30 and 31.

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licenses
PORTABLE—continued						
Louisiana, Mississippi, and Texas— Continued.						
No. 13.....						
No. 14.....	FX	WCD	1,600 (187.5), 1,652 (181.6), 1,664 (180.29), 1,680 (178.6), 1,704 (176.06).	P	X	Texas Co.
No. 15.....	FX	WCH	.....	P	X	Do.
No. 16.....	FX	KNC	.....	P	X	Do.
No. 17.....	FX	KND	.....	P	X	Do.
No. 18.....	FX	WBH	.....	P	X	Do.
No. 19.....	FX	KNE	.....	P	X	Do.
No. 1.....	FX	KNF	.....	P	X	Do.
Do.	FX	KJO	.....	P	X	Geophysical Exploration Co.
No. 2.....	FX	KJZ	.....	P	X	Continental Oil Co.
No. 3.....	FX	KJN	.....	P	X	Geophysical Exploration Co.
No. 4.....	FX	KJT	.....	P	X	Do.
No. 5.....	FX	KJW	.....	P	X	Do.
San Antonio, Tex.	FX	KJY	.....	P	X	Do.
Texas and Louisiana.....	FX	KGOL	3,184 (94.22).	P	X	San Antonio Public Service Co.
Do.	FX	KOZ	1,600 (187.5), 1,652 (181.6), 1,664 (180.29), 1,680 (178.6), 1,704 (176.06).	P	X	Interstate Geophysical Exploration Co.
Do.	FX	KPF	.....	P	X	Do.
Do.	FX	KPL	.....	P	X	Do.
Do.	FX	KPT	.....	P	X	Do.
Do.	FX	KPU	.....	P	X	Do.
Do.	FX	KRR	.....	P	X	Do.
Do.	FX	KRS	.....	P	X	Do.
Do.	FX	KRT	.....	P	X	Do.
Do.	FX	KRV	.....	P	X	Do.
Do.	FX	KRW	.....	P	X	Do.
Do.	FX	KRZ	.....	P	X	Do.
Do.	FX	KWS	.....	P	X	Do.
Do.	FX	WCZ	.....	P	X	Sun Oil Co.
Texas and Louisiana.....	FX	WFG	.....	P	X	Geophysical Research Corporation.
Third Radio Zone:						
No. 1.....	FX	WCU	.....	P	X	Continental Oil Co.
No. 2.....	FX	WFH	.....	P	X	Geophysical Research Corporation.
No. 3.....	FX	KOT	.....	P	X	Do.
No. 4.....	FX	KOI	.....	P	X	Do.
No. 5.....	FX	KOF	.....	P	X	Do.
No. 6.....	FX	WFJ	.....	P	X	Do.
No. 7.....	FX	WFM	.....	P	X	Do.
No. 8.....	FX	WFN	.....	P	X	Do.
No. 9.....	FX	WFP	.....	P	X	Do.
No. 10.....	FX	KOD	.....	P	X	Do.
No. 11.....	FX	KNZ	.....	P	X	Do.
No. 12.....	FX	KNY	.....	P	X	Do.

No. 13	WFQ	do	P	XXXXXX	Do
No. 14	WFR	do	P	XXXXXX	Do
No. 15	WFS	do	P	XXXXXX	Do
No. 16	KNU	do	P	XXXXXX	Do
No. 17	KNT	do	P	XXXXXX	Do
No. 18	KNS	do	P	XXXXXX	Do
No. 19	KNQ	do	P	XXXXXX	Do
No. 20	KNM	do	P	XXXXXX	Do
No. 21	KNL	do	P	XXXXXX	Do
No. 29	KSB	do	P	XXXXXX	Do
No. 30	KKY	do	P	XXXXXX	Do
No. 31	KKX	do	P	XXXXXX	Do
No. 32	KKV	do	P	XXXXXX	Do
No. 33	KKU	do	P	XXXXXX	Do
No. 34	KKF	do	P	XXXXXX	Do
No. 35	KKD	do	P	XXXXXX	Do
No. 36	KIJ	do	P	XXXXXX	Do
No. 37	KIC	do	P	XXXXXX	Do
No. 38	KIB	do	P	XXXXXX	Do
No. 39	KDX	do	P	XXXXXX	Do
No. 40	KDV	do	P	XXXXXX	Do
No. 41	KDH	do	P	XXXXXX	Do
No. 42	KDJQ	do	P	XXXXXX	Do
No. 43	KGJP	do	P	XXXXXX	Do
No. 44	KGJO	do	P	XXXXXX	Do
No. 45	KGJN	do	P	XXXXXX	Do
Texas and Louisiana:					
No. 1	KMZ	do	P	XXXXXX	Humble Oil & Refining Co.
No. 2	KMY	do	P	XXXXXX	Do
No. 3	KMX	do	P	XXXXXX	Do
No. 4	KMS	do	P	XXXXXX	Do
No. 5	KMI	do	P	XXXXXX	Do
No. 6	KMD	do	P	XXXXXX	Do
No. 7	KLY	do	P	XXXXXX	Do
No. 8	KLI	do	P	XXXXXX	Do
No. 9	KLG	do	P	XXXXXX	Do
No. 10	KLT	do	P	XXXXXX	Do
No. 11	KLE	do	P	XXXXXX	Do
No. 12	KLA	do	P	XXXXXX	Do
No. 13	KFF	do	P	XXXXXX	Do
No. 14	KFG	do	P	XXXXXX	Do
No. 15	KFY	do	P	XXXXXX	Do
No. 16	KGZ	do	P	XXXXXX	Do
No. 17	KJA	do	P	XXXXXX	Do
No. 18	KJD	do	P	XXXXXX	Do
Texas, Louisiana, and Oklahoma:					
No. 2	KGME	do	P	XXXXXX	Wireless Service Corporation.
No. 3	KGMF	do	P	XXXXXX	Do
No. 4	KGNG	do	P	XXXXXX	Do

See footnotes on pp. 30 and 31.

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
PORTABLE—continued						
Texas, Louisiana, and Oklahoma— Continued.						
No. 3.....						
No. 6.....	FX	KGMH	1,600 (187.5), 1,652 (181.6), 1,664 (178.6), 1,704 (176.06)	P	X	Wireless Service Corporation.
No. 7.....	FX	KGMI	do	P	X	Do.
No. 8.....	FX	KGMJ	do	P	X	Do.
No. 9.....	FX	KGMK	do	P	X	Do.
No. 10.....	FX	KGML	do	P	X	Do.
No. 11.....	FX	KGMN	do	P	X	Do.
No. 12.....	FX	KGMO	do	P	X	Do.
Third Radio Zone:						
No. 46.....	FX	KGTM	do	P	X	Do.
No. 47.....	FX	KGTL	do	P	X	Do.
No. 48.....	FX	KGTR	do	P	X	Do.
No. 49.....	FX	KGKS	do	P	X	Do.
No. 50.....	FX	KGKT	do	P	X	Do.
No. 51.....	FX	KGKU	do	P	X	Do.
Third radio zone:						
Do.....	FX	WFY	do	P	X	Do.
Do.....	FX	WFZ	do	P	X	Do.
Do.....	FX	WBG	do	P	X	Do.
United States throughout:						
No. 6.....	FX	KGYA	do	P	X	McCollum Exploration Co.
No. 10.....	FX	KGYB	do	P	X	Do.
No. 11.....	FX	KGYC	do	P	X	Do.
No. 12.....	FX	KGYD	do	P	X	Do.
No. 13.....	FX	KGYE	do	P	X	Do.
Western States.....	FX	KGNR	1,600 (187.5), 1,652 (181.6), 1,680 (178.6), 1,704 (176.06)	P	X	Gulf Production Co.

17 a. m. to 7 p. m. daily.
 18 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 schedule, first 10 minutes of each hour.
 19 to 12 a. m., 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship schedule
 20 to 1 to 30th minutes of each hour.
 21 Location (approximately), 83° 30' 00" W.; 45° 05' 00" N.
 22 a. m. to 6 p. m.
 23 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 schedule, 20th to 30th minutes of each hour.
 24 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 schedule, last 10 minutes of each hour.
 25 Location (approximately), 87° 37' 20" W.; 41° 52' 28" N.
 26 Location (approximately), 81° 41' 30" W.; 41° 30' 00" N.
 27 7.30 to 12 a. m.; 2 to 4.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship sched-
 ule, 10th to 20th minutes of each hour.
 28 Location (approximately), 83° 54' 00" W.; 45° 57' 00" N.
 29 Location (approximately), 83° 03' 00" W.; 42° 20' 00" N.
 30 8 a. m. to 8 p. m.
 31 Location (approximately), 92° 09' 00" W.; 46° 46' 00" N.
 32 Location, 92° 05' 30" W.; 46° 46' 44" N.
 33 7 a. m. to 10 p. m. daily.
 34 Location, 86° 14' 17" W.; 44° 37' 46" N.

- 18 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship schedule, 40th to 50th minutes of each hour.
- 19 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship schedule, 30th to 40th minutes of each hour.
- 20 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship schedule, 30th to 40th minutes of each hour.
- 21 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 schedule, 7 a. m. to 8 p. m.; 40th to 50th minutes of each hour; 8 p. m. to 7 a. m. continuous; observes day and night ship schedules; continues listening-in on 600 meters (500 kc.) for ship traffic and S O S signals from the time all land station traffic is cleared until the opening hour the next business day.
- 22 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship schedule 7 a. m. to 8 p. m.; 40th to 50th minutes of each hour; 8 p. m. to 7 a. m. continuous; observes day and night ship schedules; continuous listening-in on 600 meters (500 kc.) for ship traffic and S O S signals from the time all land-station traffic is cleared until the opening hour the next business day.
- 23 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship schedule 10th to 20th minutes of each hour.
- 24 Location (approximately), 78° 55' 00" W.; 42° 53' 00" N.
- 25 6 a. m. to 12 p. m.
- 26 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays.
- 27 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship schedule, last 10 minutes of each hour.
- 28 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship schedule, 40th to 50th minutes of each hour.
- 29 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship schedule, 40th and 50th minutes of each hour.
- 30 a. m. to 6 p. m.
- 31 8 a. m. to 12 p. m.
- 32 7 a. m. to 9 p. m. daily; 9 to 11 a. m. Sundays.
- 33 8 a. m. to 5 p. m. daily; 9 to 11 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m.; 2 to 3.30 p. m. Sundays and holidays; ship schedule, 40th and 50th minutes of each hour.
- 34 Location (approximately), 87° 37' 00" W.; 41° 52' 00" N.
- 35 9 a. m. to 5 p. m.
- 36 to 12 a. m.; 1 to 5 p. m. daily.
- 37 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 schedule, last 10 minutes of each hour.
- 38 6 a. m. to 12 p. m.
- 39 Location, 86° 26' 19" W.; 43° 56' 47" N.
- 40 Location (approximately), 84° 35' 00" W.; 45° 54' 00" N.
- 41 Location, 86° 15' 35" W.; 45° 57' 48" N.
- 42 8 to 11.30 a. m.; 2 to 5 p. m. daily; X on Sundays and holidays.
- 43 Location (approximately), 87° 45' 00" W.; 44° 07' 00" N.
- 44 8 to 12 a. m.; 2 to 5.30 p. m. daily; 9 to 11 a. m. Sundays and holidays; ship schedule, first 10 minutes of each hour.
- 45 7 to 11.30 a. m.; 2 to 5.30 p. m.
- 46 7 a. m. to 8 p. m. daily; 7 a. m. to 7 p. m. Sundays and holidays.
- 47 Communicates only with vessels on trial trips.
- 48 The telephone band used by this station extends from 4,875 to 5,125 meters; center of band 60.03 (4,997 m.).
- 49 Location (approximately), 89° 50' 00" W.; 46° 25' 00" N.
- 50 7 a. m. to 7 p. m. during fishing season.
- 51 9 to 11 a. m.; 2 to 3 and 6 to 8 p. m.
- 52 Location (approximately), 87° 41' 30" W.; 43° 45' 00" N.
- 53 8 to 11 a. m.; 4 to 6 p. m. Sundays and holidays.
- 54 6 a. m. to 6 p. m.
- 55 8 a. m. to 12 p. m.
- 56 7 a. m. to 9 p. m. daily.
- 57 8 a. m. to 5 p. m. daily; 9 to 11 a. m. Sundays.
- 58 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 schedule, 40th and 50th minutes of each hour.

COMMERCIAL SHIP RADIO STATIONS, ALPHABETICALLY BY NAMES OF VESSELS

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
A. A. Augustus	△ KDXQ	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.	Owner.
A. & P. Nakeen No. 7	△ KGFQ	2,390 (124.3)	P	X	Nakat Packing Corporation	Do.
Abcanta	△ WLDV	425 (705), 500 (600), 3,436 (87.3), 5,595 (54.3), 8,230 (36.45), 12,340 (24.31)	P	X	M. A. Baily	Do.
Abcangarez	△ KDAY	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. Corporation	Do.
Aberos	△ KOVR	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Abron	△ KERD	do	PG	X	Finkbine-Guild Transportation Co	Do.
Aburkhi	△ KGDG	do	PG	X	McCormick S. S. Co.	Do.
A. C. Bedford	△ WOCI	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	Do.
Acene	△ WSCF	375 (800), 400 (730), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transportation Co.	Do.
Adam E. Cornelius	△ KDVF	375 (800), 400 (730), 425 (705), 500 (600)	PG	X	American S. S. Co.	Owner.
Ader	△ KDTV	375 (800), 400 (730), 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.	Owner.
Admiral Chase	△ KUZG	375 (800), 425 (705), 500 (600)	PG	X	Pacific S. S. Co.	M. R. T. Co.
Admiral Dewey	△ WQCA	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	N	do	Do.
Admiral Evans	△ WGCJ	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Admiral Farragut	△ WGCC	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Admiral Fiske	△ WGLD	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Admiral Halseid	△ KDLE	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Admiral Moser	△ WQJE	do	PG	N	do	Do.
Admiral Naiton	△ KDFE	do	PG	N	do	Do.
Admiral Peary	△ WJEF	do	PG	N	do	Do.
Admiral Peoples	△ WJEF	do	PG	N	do	Do.
Admiral Rodgers	△ WJEF	do	PG	N	do	Do.
Admiral Rodman	△ WFCI	do	PG	N	do	Do.
Admiral Rogers	△ WFCI	do	PG	N	do	Do.
Admiral Selley	△ WGLI	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Admiral Seabee	△ WGLI	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Admiral Watson	△ WCK	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Admiral Wiley	△ WJHA	375 (800), 410 (730), 425 (705)	PG	X	do	Do.
A. E. R. Schneider	△ WFOI	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Ale	△ WISQ	375 (800), 425 (705), 454 (660), 460 (650), 500 (600)	PG	X	do	Do.
Alognak	△ KGNQ	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Afoundria	△ KONG	do	PG	X	do	Do.
Agvithale	△ WJCA	do	PG	X	do	Do.
Agwistar	△ WJCA	do	PG	X	do	Do.
Akwaworld	△ WJCA	do	PG	X	do	Do.
Akutan	△ WKDM	do	PG	X	do	Do.
Ala	△ WKDH	do	PG	X	do	Do.
Ala	△ KPOB	do	PG	X	do	Do.
Alabama	△ WJDN	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	P	X	do	Do.
Do	△ WJCT	375 (800), 410 (730), 425 (705)	PG	X	do	Do.
Do	△ WLAB	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Do	△ KZBL	454.5 (660), 500 (600), 501.5 (51.42)	PG	X	do	Do.
Alabat	△ KZBL	454.5 (660), 500 (600), 501.5 (51.42)	PG	X	do	Do.

Aladdin	△ KDQM	375 (800), 400 (750), 425 (705)		PG	X	Standard Transportation Co.	R. M. C. A.
Alamar	△ W.C.F.	375 (800), 400 (750), 425 (705), 453 (640), 500 (600)		PG	X	Calmar S. S. Corporation	Do.
Alameda	△ WCCQ	375 (800), 425 (705), 500 (600)		PG	X	Alaska S. S. Co.	Owner.
Alaska	△ KFJN	do		PG	N	do	Do.
Alaskan	△ WACW	do		PG	N	do	Do.
Alaska Standard	△ KFVJ	375 (800), 400 (750), 4.5 (705), 468 (640), 500 (600)		PG	X	American-Hawaiian S. S. Co.	R. M. C. A.
Albcore	△ WQBM	5,325 (34.3), 5,385 (34)		P	X	State of California, division of fish and game.	Owner.
Alaska Packers Association (general call for all vessels)	KFVV					Alaska Packers Association	
Albatross	KELD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)		PG	X	Consolidated Fisheries Co.	R. M. C. A.
Do.	W.SBL	366.8 (77.0), 500 (600)				James A. Ross.	
Albay	KZA	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)		PG	X	Compania Maritima.	Owner.
Albert E. Watts	KPOK	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)		PG	X	Sinclair Navigation Co.	R. M. C. A.
Alfred Hill	WFCV	do		PG	X	Atlantic Refining Co.	Do.
Alden A. Mills	KFBQ	375 (800), 425 (705), 500 (600)		PG	X	Ocean Trawling Co.	Do.
Alder	WFBY	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	X	William Hoyce Thompson.	Do.
Aleutian.	WCCR	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)		PG	N	Alaska S. S. Co.	M. R. T. Co.
Alex B. Uhrig.	KFSA	375 (800), 410 (730), 425 (705)		PG	X	Reiss S. S. Co.	Owner.
Algie.	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)		PG	X	Standard Transportation Co.	Do.
Do.	KGDL	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	Cherokee-Seminole S. S. Corporation.	Do.
Alice Cooke.	WJDO	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)		PG	X	Kalgin Packing Co. (Inc.)	Owner.
Alitak.	KGNP	375 (800), 425 (705), 454 (660), 500 (600)		PG	X	Alaska Packers Association.	R. M. C. A.
A. L. Kent.	KDLL	131 (2,280), 133 (2,250), 135 (2,220), 137 (2,180), 139 (2,160), 141 (2,130), 143 (2,100), 145 (2,070), 147 (2,040), 149 (2,015), 151 (1,985), 160 (1,975), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)		PG	X	Mystic S. S. Co.	Do.
Alki.	WQBX	1,596 (187.97)		P	X	City of Seattle fire department.	Owner.
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.	M. R. T. Co.
Allegany.	KFGA	375 (800), 425 (705), 500 (600)		PG	N	Merchants & Miners Transpn. Co.	R. M. C. A.
Almerra Lykes.	KOTJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)		PG	X	Lykes Bros. S. S. Co.	Do.
Aloha.	WLCU	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 Curtiss James	Do.
Alpena.	WADU	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)		P	X	Wyandotte Transportation Co.	Owner.
Alpha.	KIMS	375 (800), 425 (705), 500 (600)		PG	X	Alpha S. S. Corporation.	R. M. C. A.
Do.	WMDP	do		PG	X	James W. Perry.	M. R. T. Co.
Altair	KDBC	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 375 (800), 410 (730), 425 (705)		PG	X	Standard Transportation Co.	R. M. C. A.
Amasa Stone.	WPBC	375 (800), 400 (750), 425 (705)		PG	X	Interlake S. S. Co.	R. C. A.
Amazon.	KDXP	375 (800), 410 (730), 425 (705)		PG	X	Pioneer S. S. Co.	Owner.
Ambridge.	KFKQ	375 (800), 425 (705), 500 (600)		PG	X	U. S. S. B.	R. M. C. A.
A. M. Byers.	WADD	375 (800), 410 (730), 425 (705)		PG	X	Reiss S. S. Co.	Owner.
Amelia.	WEDO	375 (800), 425 (705), 500 (600)		PG	X	Amelia S. S. Corporation.	R. M. C. A.
America.	KDOW	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	N	United States Lines	Do.
Do.	KGQF	375 (800), 425 (705), 500 (600)		PG	X	Ocean Pilot & Tugboat Co.	Owner.
American.	WACA	375 (800), 425 (705), 500 (600)		PG	X	American Hawaiian S. S. Co.	

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

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account set- tled by—
American Banker.....	WBDA	375 (800), 425 (705), 500 (600)	PG	N	United States Lines	R. M. C. A.
American Farmer.....	WBDB	do.	PG	N	do.	Do.
American Legion.....	KDTM	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	N	Munson S. S. Line	Do.
American Merchant.....	WFDL	375 (800), 425 (705), 500 (600)	PG	N	United States Lines	Do.
American Press.....	KUDN	do.	PG	N	U. S. S. B.	Do.
American Shipper.....	WFDZ	do.	PG	N	United States Lines	Do.
American Trader.....	WFDG	do.	PG	N	do.	Do.
Amherst.....	WQDE	375 (800), 400 (760), 425 (705), 468 (640), 500 (600)	PG	X	General Sea Foods Corporation	Do.
Amilda.....	WSBU	375 (800), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (760), 468 (640), 500 (600), 5,525 (54.3), 5,555 (54), 8,200 (36.19), 8,450 (35.5), 11,050 (27.15), 11,110 (27), 11,230 (26.71), 13,240 (22.66)	PG	X	Ernest R. Behrend	Do.
Amolco.....	WCCD	375 (800), 400 (760), 425 (705), 468 (640), 500 (600)	PG	X	Steamship Amolco Corporation	Do.
Anacanda.....	KOFD	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Anacortes.....	KQOA	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do.	Do.
Ancon.....	WCCI	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (760), 425 (705), 468 (640), 500 (600)	PG	N	Panama R. R. Co.	Do.
Andrea F. Luckenbach Angeles (see The Angeles)	KIFV	375 (800), 425 (705), 500 (600)	PG	N	Luckenbach S. S. Co.	Do.
Angeline.....	KFNM	375 (800), 410 (730), 425 (705)	PG	X	Presque Isle Transportation Co.	Owner.
Anna Helen.....	WRBB	375 (800), 400 (760), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600), 5,525 (54.3), 5,555 (54), 8,430 (35.5), 11,050 (27.15), 11,110 (27)	P	X	Dr. William F. Good	Do.
Annapolis.....	KDCM	375 (800), 425 (705), 500 (600)	PG	X	City of Baltimore	Do.
Ann Arbor No. 3.....	WDCO	do.	PG	X	do.	Do.
Ann Arbor No. 4.....	WDCP	do.	PG	X	Ann Arbor R. R. Co.	Do.
Ann Arbor No. 5.....	WDCQ	do.	PG	X	Empire Trust Co.	Do.
Ann Arbor No. 6.....	WDCR	do.	PG	X	Ann Arbor Boat Co.	Do.
Ann Arbor No. 7.....	WDCS	do.	PG	X	Ann Arbor R. R. Co.	Do.
Annetta.....	WDDP	375 (800), 425 (705), 500 (600)	PG	X	Annetta S. S. Corporation	R. M. C. A.
Annishton City.....	KDSG	375 (800), 410 (730), 425 (705)	PG	X	Ishman S. S. Co. (Inc.)	Do.
Ansonia.....	WDDF	2, 320 (120.3), 5,525 (54.3), 5,615 (53.42)	P	X	Alaska Packers Association	Owner.
Antares.....	WODK	375 (800), 425 (705), 500 (600)	PG	X	E. M. Chace	Do.
Anticam.....	KONR	375 (800), 425 (705), 500 (600)	PG	X	Anticam S. S. Corporation	R. M. C. A.
Antilla.....	WECB	do.	PG	X	New York & Cuba Mail S. Co.	Do.
Antinous.....	KDAX	do.	PG	X	U. S. S. B.	Do.
Antonia.....	KOLD	500 (600)	PG	X	Madrigal & Co.	Do.
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.
Aquila.....	KOCJ	do.	PG	X	H. F. Alexander	Owner.

Ara.....	△	KFBQ	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (680), 468 (660), 500 (600), 525 (543), 555 (514), 580 (36.19), 1,050 (27.15), 1,110 (27.15), 11,210 (26.71)	PG	X	William K. Vanderbilt.....	Do.
Aros.....		KGAA	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600), 525 (543), 555 (514), 580 (36.19), 1,050 (27.15), 1,110 (27.15), 11,210 (26.71)	PG	X	Iugh J. Chisholm, jr.....	R. M. C. A.
Arcadia.....	△	KFZL	11,050 (27.15), 12,230 (26.70), 13,294 (22.65), 137 (2,100), 141 (2,130), 143 (2,100), 151 (1,985), 155 (1,960), 160 (1,875), 375 (800), 425 (705), 469 (640), 500 (600)	PG	X	Mrs. Margaret S. Hardwick.....	Do.
Archer.....		WLCC	do	PG	X	U. S. S. B.....	Do.
Arctic.....		WOCM	do	PG	X	Alaska Packers Association.....	Owner.
Arcturus.....		KIKZ	do	PG	X	Cape Verde Islands & West African Trading Co.....	Do.
Do.....		KURD	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	Do.
Arden.....		KDFN	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Ardmore.....		WBQC	143 (2,100), 153 (1,960), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600), 463 (640)	PG	X	Ardmore S. S. Co.....	Do.
AREON.....	△	KUDD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transportation Co.....	Do.
ARESON.....	△	KDHL	375 (800), 425 (705), 500 (600)	PG	X	American Seante Line (Inc.).....	Do.
AREUS.....	△	KZCG	458 (635), 500 (600)	PG	X	Madrigal & Co.....	Owner.
Arfo.....	△	KULM	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transportation Co.....	R. M. C. A.
Arizona.....	△	KODR	do	PG	X	Texas Co.....	Do.
Do.....		WPCU	375 (800), 410 (730), 425 (705)	PG	X	Goodrich Transit Co.....	Do.
Arizonaan.....	△	WACK	375 (800), 425 (705), 500 (600)	PG	X	Williams S. S. Corporation.....	R. C. A.
Arizona.....	△	KULN	do	PG	X	U. S. S. B.....	R. M. C. A.
Arlyn.....		KEKQ	do	PG	X	A. H. Bull S. S. Co.....	R. M. C. A.
Armadia.....		KEFD	375 (800), 410 (730), 425 (705)	PG	X	William E. Hedger.....	Owner.
Armenia.....		WFDL	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	R. M. C. A.
Armenis.....		KEVZ	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Arctic Transportation Co.....	Do.
Arthur J. Baldwin.....		KURB	do	PG	X	U. S. S. B.....	Do.
Arigas.....		KOLB	do	PG	X	Texas Co.....	Do.
Arvan.....		WBDG	375 (800), 410 (730), 425 (705)	PG	X	Pennsylvania & Ontario Nav. Co.....	Do.
Ashtabula.....	△	KGEP	375 (800), 425 (705), 500 (600)	PG	X	Hammond Lumber Co.....	R. C. A.
Astoria.....	△	WSCG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transportation Co.....	R. M. C. A.
Astral.....	△	KDAK	143 (2,100), 151 (1,985), 155 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	United Fruit S. S. Corporation.....	T. R. T. Co.
Ateuas.....	△	KDWS	143 (2,100), 151 (1,985), 155 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Isthmian S. S. Co. (Inc.).....	R. M. C. A.
Atlanta City.....		KDWS	143 (2,100), 151 (1,985), 155 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	M. O. Medina.....	Owner.
Atlantic.....		KGMP	5,525 (54.3), 5,555 (54), 8,200 (36.19), 11,050 (27.15), 11,110 (27.15)	P	X	Argonaut S. S. Co.....	R. M. C. A.
Do.....		WBEO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Gerard B. Lambert.....	Do.
Do.....		WQBG	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	Atlantic Refining Co.....	Do.
Atlantic Refining Co. (general call for all vessels).....		KGZZ	do	PG	X	do	Do.
Atlantic Sun.....		KUMS	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sun Oil Co.....	Do.
Atlas.....	△	WVCH	375 (800), 410 (730), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transportation Co.....	Do.
Aurora.....	△	KEBK	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Australia.....	△	WQBV	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	Texas Co. (Inc.).....	M. R. T. Co.
Avalon.....		WQCV	375 (800), 425 (705), 500 (600), 2,740 (109.5)	PG	X	Wilmington Transportation 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—
Axtell J. Byles.....	WPBJ	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).	PG	X	Tidewater Associated Transport Corporation.	R. M. C. A.
Azlea.....	KFSP	375 (800), 425 (705), 500 (600)	PG	X	Robinson Fisheries Co. (Inc.)	Owner.
Aztec.....	WJDL	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Albert C. Burrage.....	R. M. C. A.
Bafshe.....	KENX	375 (800), 425 (705), 500 (600)	PG	X	Sabine Towing Co.	Do.
Bainbridge.....	WODU	375 (800), 410 (730), 425 (705)	PG	X	Farmers & Merchants National Bank & Trust Co.	R. C. A.
Bakersfield.....	KIZC	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Baldpate.....	KISM	do	PG	X	Baldpate S. S. Co.	Do.
Baldhill.....	KOBV	do	PG	X	Baldhill S. S. Co.	Do.
Ballauntrae.....	WJDS	2,740 (108.5), 3,420 (87.7)	P	X	Trenton Mercer Area Council, Boy Scouts of America.	Owner.
Ballcamp.....	KENV	143 (2,100), 157 (1,910), 375 (800), 410 (730), 425 (705), 500 (600), 2,446 (122.65).	PG	X	Ford Motor Co.	R. C. A.
Ballenas.....	KEMZ	375 (800), 410 (730), 425 (705)	PG	X	Ballenas Co. (Inc.)	Owner.
Balsam.....	KLIC	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Bangum.....	KODZ	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).	PG	X	do	Do.
Bannack.....	KIZQ	do	PG	X	do	Do.
Barceoa.....	KFDN	do	PG	X	Colombian S. S. Co.	Do.
Barbara Cotes.....	KJOO	do	PG	X	Christenson S. S. Co. (Inc.)	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), 425 (705), 500 (600)	PG	X	Bellingham Tug & Barge Co.	Owner.
Barralton.....	KIDT	157 (1,910), 410 (730), 425 (705), 500 (600), 2,446 (122.65).	PG, P	X	Ford Motor Co.	R. C. A.
Barranca.....	KIFR	375 (800), 425 (705), 500 (600)	PG	X	New Orleans Coal & Bisso Towboat Co.	Owner.
Barreardo.....	KICR	143 (2,100), 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.	R. M. C. A.
Barrenfork.....	KIID	do	P	X	Marine Contracting & Towing Co.	Owner.
Barron P.....	WIDS	2,320 (99.3)	P	X	Nakat Packing Co.	Do.
Barryton.....	KILF	375 (800), 410 (730), 425 (705)	PG	X	Barryton Co. (Inc.)	R. M. C. A.
Barwick.....	KOBR	375 (800), 425 (705), 500 (600)	PG	X	Barwick (Inc.)	Owner.
Bascobel.....	KOPB	do	PG	X	Tennessee Coal, Iron & R. R. Co.	Do.
Baton Rouge.....	KDVA	274 (1,095), 375 (800), 500 (600)	P	X	Inland Waterways Corporation	Do.
Bayonne.....	KEAG	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Vacuum Oil Co.	Do.
Bayout Chico.....	KFKG	do	PG	X	U. S. S. B.	Do.
Bayport.....	KDJK	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Bay State Fishing Co (general call for all vessels).....	KUIC	do	PG	X	Bay State Fishing Co.	Do.
Beacon.....	KFPY	do	PG	X	do	Do.
Beacon.....	KDPO	143 (2,100), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640).	PG	X	Colonial Beacon Oil Co. (Inc.)	R. M. C. A.

Station	Call Letters	Freq. (KHz)	Power (W)	Class	Time	Day	City	Owner	Remarks
Beaconhill	KEXY	375 (800)	425 (705), 500 (600)	PG					
Beaconlight	KUTX	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875)	375 (800), 400 (750), 410 (730), 425 (705), 451 (600), 468 (640)	PG					National Bank of Commerce in New York
Beaconnet	KRVR	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875)	375 (800), 400 (750), 410 (730), 425 (705), 451 (600), 468 (640)	PG					
Beaconoil	KDAMC	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875)	375 (800), 400 (750), 410 (730), 425 (705), 451 (600), 468 (640), 500 (600)	PG					
Bearface	KFSO	375 (800)	425 (705), 500 (600)	PG					
Belfast	WBCA	375 (800)	410 (730), 425 (705), 500 (600)	PG					
Bellbuckle	KITK	375 (800)	425 (705), 500 (600)	PG					
Bellephone	KOKF	375 (800)	425 (705), 500 (600)	PG					
Bellflower	KOPQ	375 (800)	425 (705), 500 (600)	PG					
Bellhaven	KOPC	375 (800)	425 (705), 500 (600)	PG					
Bellingham	KUDQ	375 (800)	425 (705), 500 (600)	PG					
Benjamin Brewster	WOCK	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	375 (800), 410 (730), 425 (705), 500 (600)	PG					
Benson Ford	KFTO	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 160 (1,875), 375 (800), 425 (705)	375 (800), 425 (705), 500 (600)	PG					
Bering	KGDV	375 (800)	425 (705), 500 (600)	PG					
Berkshire	KFIE	375 (800)	410 (730), 425 (705), 451 (600), 500 (600)	PG					
Do	KUVG	375 (800)	425 (705), 500 (600)	PG					
Berury	KINR	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	375 (800)	PG					
Berwindgen	WKDC	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG					
Berwindvale	WKDY	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875)	375 (800), 425 (705), 500 (600)	PG					
Beryl E.	WDRK	2,320 (128.3)	375 (800)	P					
Bessemer	KIGT	375 (800)	400 (750), 425 (705), 468 (640), 500 (600)	PG					
Bessemer City	KDDF	375 (800)	425 (705), 500 (600)	PG					
Beta	WEDB	375 (800)	425 (705), 500 (600)	PG					
Bethlehem	WCDR	375 (800)	410 (730), 425 (705)	PG					
Bethlehem Shipbuilding Corporation ¹	KUPF	375 (800)	410 (730), 425 (705)	PG					
Bethore	KDWV	375 (800)	400 (750), 425 (705), 468 (640), 500 (600)	PG					
Bettorton	KVDG	375 (800)	425 (705), 454 (600), 500 (600)	PG					
Betty R.	KDTR	375 (800), 425 (705), 500 (600), 3,420 (87.7), 5,525 (54.3), 5,555 (54), 8,330 (36.0)	375 (800), 425 (705), 500 (600)	P					
Betty Weems	WODN	375 (800)	425 (705), 500 (600)	PG					
B. H. Taylor	KFLK	375 (800)	410 (730), 425 (705), 500 (600)	PG					
Bibbco	KDLH	375 (800)	425 (705), 500 (600)	PG					
Bibbco	KUBM	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	375 (800), 425 (705), 500 (600)	PG					
Bicol	KZAC	445 (660), 500 (600), 5,615 (53.43)	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG					
Bitwell	KBSQ	375 (800)	400 (750), 425 (705), 500 (600)	PG					
Bitlow	KFXU	375 (800)	425 (705), 500 (600)	PG					
Bird City	KOBP	375 (800)	425 (705), 500 (600)	PG					
Birkenhead	KDVL	375 (800)	400 (750), 425 (705), 468 (640), 500 (600)	PG					
Birmingham	KFME	274 (1,095), 375 (800), 500 (600)	375 (800), 425 (705), 500 (600)	P					
Birmingham City	KUTT	375 (800)	425 (705), 500 (600)	PG					
Black Douglas	KGMV	375 (800)	4,5 (705), 500 (600)	PG					
Black Point	WFDH	375 (800), 4,5 (705), 500 (600)	2,740 (109.5)	P					
Blaine	WHDY	375 (800)	4,5 (705), 500 (600)	P					
Blair	WHDY	375 (800)	4,5 (705), 500 (600)	P					
Baltimore	KZAC	445 (660), 500 (600), 5,615 (53.43)	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG					
Baltimore and Carolina Line (Inc.)	KOBI	375 (800)	425 (705), 500 (600)	PG					
Bradley Transportation Co.	KDVL	375 (800)	400 (750), 425 (705), 468 (640), 500 (600)	PG					
Mississippi Shipping Co.	KJFL	375 (800)	425 (705), 500 (600)	PG					
U. S. S. B.	KUBM	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	375 (800), 425 (705), 500 (600)	PG					
Manila R. Co.	KZAC	445 (660), 500 (600), 5,615 (53.43)	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG					
Sun Oil Co.	KBSQ	375 (800)	400 (750), 425 (705), 500 (600)	PG					
Bay State Fishing Co.	KFXU	375 (800)	425 (705), 500 (600)	PG					
American Seanteic Line	KOBP	375 (800)	425 (705), 500 (600)	PG					
Vacuum Oil Co.	KDVL	375 (800)	400 (750), 425 (705), 468 (640), 500 (600)	PG					
Inland Waterways Corporation	KFME	274 (1,095), 375 (800), 500 (600)	375 (800), 425 (705), 500 (600)	P					
U. S. Steel Products Co.	KUTT	375 (800)	425 (705), 500 (600)	PG					
Robert C. Ruchling	KGMV	375 (800)	4,5 (705), 500 (600)	PG					
Black Point S. S. Co	WFDH	375 (800), 4,5 (705), 500 (600)	2,740 (109.5)	P					
E. V. Rideout Co.	WHDY	375 (800)	4,5 (705), 500 (600)	P					

¹ Portable on board vessels during trial trip.

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

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Bogota	KORQ	375 (800), 425 (705), 500 (600)	PG	X	Colombian S. S. Co.	R. M. C. A.
Bohemian Club	KDTB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Atlantic Refining Co.	Do.
Bollivar	KIQP	375 (800), 425 (705), 500 (600)	PG	X	Colombian S. S. Co.	Do.
Bonnie Brook	KDGX	do.	PG	X	U. S. S. B.	Do.
Boston	WECB	143 (2,100), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Eastern S. S. Lines	Do.
Boston College	WTRG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Traveler Boston College (Inc.)	Do.
Bowdoin	WDDE	425 (705), 500 (600), 5,325 (54.3), 8,330 (36.01), 11,050 (27.15), 11,110 (27)	P	X	MacMillan Arctic Association	Zenith Radio Corp.
Braddock	KFTG	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Brandywine	WGVI	do.	PG	X	Hillcooke S. S. Co.	Do.
Brant	KGNT	375 (800), 425 (705), 454 (660), 500 (600)	PG	X	Alaska Packers Association	Do.
Do.	KUDB	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Portland Trawling Co.	Do.
Brave Coeur	KOGN	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Brazos	WIBC	do.	PG	X	Mallory S. S. Co.	Do.
Breaker	KFNZ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Bay State Fishing Co.	Do.
Breeze	WQBZ	do.	PG	X	do.	Do.
Bridgetown	KUCZ	375 (800), 425 (705), 500 (600)	PG	X	Colombian S. S. Co.	Do.
Broad Arrow	WSCJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transportation Co.	Do.
Brookdale	WNUO	375 (800), 425 (705), 500 (600)	PG	X	Brookdale S. S. Co.	M. R. T. Co.
Brookings	WXOA	do.	PG	X	Andrew P. Mahony Co.	Do.
Brooks-Seanlon	KGBI	do.	PG	X	Brooks-Seanlon Co.	Owner.
Brush	KJLM	do.	PG	X	U. S. S. B.	Do.
Buccaneer	WIDH	375 (800), 410 (730), 425 (705), 5,325 (54.3), 5,555 (54), 5,615 (53.4)	PG	X	Charles C. West	Do.
Buddy	WKDN	2,320 (126.3)	P	X	Far West Fisheries	Do.
Buenaventura	KOMC	375 (800), 425 (705), 500 (600)	PG	X	Panama R. R. Co.	R. M. C. A.
Buffalo Bridge	KIZF	375 (800), 425 (705), 454 (660), 500 (600)	PG	X	Charles Nelson Co. (Inc.)	Do.
Bull S. S. Co., A. H. (general call for all vessels)	WABS	do.	PG	X	A. H. Bull S. S. Co.	Owner.
Buttercup	KJUT	143 (2,100), 157 (1,910), 375 (800), 410 (730), 425 (705), 500 (600), 2,446 (122.65)	PG, P	X	Ford Motor Co.	R. C. A.
Bylav	KSOU	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Peachmont S. S. Co.	R. M. C. A.
Byron D. Benson	KDWN	do.	PG	X	Fluwater Oil Co.	Do.
Cabrillo	WADK	375 (800), 425 (705), 500 (600), 2,740 (109.5)	PG	X	Wilmington Transportation Co.	M. R. T. Co.
Cadillac	WPCA	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan-American Petroleum & Transport Co.	R. M. C. A.
Cacicue	WMCQ	do.	PG	X	Charles S. Co. (Inc.)	Do.
Cedarata	WLOP	375 (800), 425 (705), 500 (600)	PG	X	Charles Nelson Co. (Inc.)	Do.
Caddopack	WPIE	do.	PG	X	do.	Owner.
Cadotte	KFNN	375 (800), 410 (730), 425 (705)	PG	X	Cleveland Cliffs S. S. Co.	Do.
Cailla	KDQW	274 (1,045), 375 (800), 500 (600)	P	X	Inland Waterways Corporation	Do.
Caizo	KDQV	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), 500 (600)	PG	X	United Fruit S. S. Corporation	T. R. T. Co.
Calamures	KDAW	do.	PG	N	do.	Do.

California	△	KFDT	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	N	Los Angeles S. S. Co.	M. R. T. Co.
California	△	KDZN	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	Bradley Transportation Co.	Owner.
California	△	WQBR	143 (2,100), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Anglo Chilean Consolidated Nitrate Corporation.	R. M. C. A.
California	△	KDRC	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Texas Co. (Inc.)	M. R. T. Co.
Do.		KGQU	8,330 (36,01)	P	X	Manuel Silveira	Owner.
Do.		KUKV	375 (800), 410 (730), 425 (705), 500 (600), 5,625 (54.3), 8,450 (35.5), 11,050 (27.15)	PG	X	States S. S. Co.	Do.
Do.	△	WMCN	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), 5,625 (54.3), 8,200 (36.19), 8,450 (35.5), 8,330 (36.01), 11,200 (26.71), 13,240 (22.66)	PG	N	American Line S. S. Corporation	R. M. C. A.
California	△	WAGR	375 (800), 425 (705), 500 (600)	PG	X	American-Hawaiian S. S. Co.	Owner.
California Standard	△	WGBR	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	Standard Oil Co. of California	R. M. C. A.
Calmar S. S. Corp. and Ore S. S. Corp. (general call for all vessels)	△	KDBY	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Calmar S. S. Corporation	Do.
Calmar S. S. Corp. (general call for all vessels)	△	WCBQ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Calmar S. S. Corporation and Ore S. S. Corporation	Do.
California		WKCP	375 (800), 425 (705), 500 (600)	PG	X	Standard Fruit & S. S. Co.	Do.
California		WECC	do.	PG	X	Eastern S. S. Lines	Do.
California		WECT	do.	PG	X	New York & Cuba Mail S. S. Co.	Do.
Camaguey	△	WRBY	143 (2,100), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 410 (730), 425 (705), 468 (640), 500 (600)	PG	X	Julius Fleischmann	Do.
Cambria	△	WDDY	375 (800), 410 (730), 425 (705)	PG	X	Bethlehem Transports Corporation	Owner.
Cambridge	△	WBCE	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	New York & New Orleans S. S. Co.	R. M. C. A.
Cambridge	△	KGOQ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Walter O. Bridges	R. M. C. A.
Camden	△	KDKL	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 464 (660), 468 (640), 500 (600)	PG	X	United Fruit Tanker Corporation	T. R. T. Co.
Campeador		WECD	375 (800), 425 (705), 500 (600)	PG	X	Eastern S. S. Lines (Inc.)	R. M. C. A.
Canada		KZBV	402.1 (746.08), 500 (600)	PG	X	Visayan Stevedore Transportation Co.	Owner.
Canada		KGQA	2,524 (118.85), 2,560 (117.18), 2,584 (116.00)	P	X	Merritt-Chapman & Scott Corporation of California	Do.
Canada		KDBN	375 (800), 425 (705), 500 (600)	PG	X	Cananova S. S. Corporation	R. M. C. A.
Canada		KOMD	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	N, X	Grace S. S. Co. (Inc.)	Do.
Capillo, Luis		KUPN	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Capital		KZCL	429 (700), 500 (600)	PG	X	Teodoro R. Yangco	Owner.
Capt. A. F. Lucas	△	WOCB	375 (800), 400 (760), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California	R. M. C. A.
Capt. John W. McKie	△	KFPI	274 (1,065), 375 (800), 500 (600)	P	X	Inland Waterways Corporation	Owner.
Captain William		WQBK	2,524 (118.86), 2,560 (117.2), 2,584 (116.10)	P	X	Wilmington Transportation 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	Ahambic & Caribbean Steam Navigation Co.	Do.
Caracas		WQCA	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	do.	Do.
Cardonia		KUVV	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Carl D. Bradley	△	WOBK	375 (800), 410 (730), 425 (705)	PG	X	Bradley Transportation Co.	Owner.
Carlton		KDDK	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—
Carolina	WPCV	375 (800), 410 (730), 425 (705)	PG	N, X	Goodrich Transit Co.	R. C. A.
Caroline	KFZO	143 (2,100), 153 (1,960), 157 (1,911), 159 (1,855), 160 (1,875), 375 (800), 410 (730), 425 (705), 468 (640), 500 (600)	PG	X	Eldridge R. Johnson	R. M. C. A.
Carolyn	WKCA	375 (800), 425 (705), 500 (600)	PG	X	A. H. Bull S. S. Co.	Owner.
Carols	KDFS	do	PG	X, N	American Seante Line (Inc.)	R. M. C. A.
Carroll	KDER	do	PG	X	Cuba Distilling Co.	Do.
Carroll	KDAE	143 (2,100), 151 (1,985), 153 (1,900), 157 (1,910), 159 (1,865), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 464 (600), 500 (600)	PG	N	United Fruit S. S. Corporation	T. R. T. Co.
Carriso	WJUU	143 (2,100), 151 (1,985), 153 (1,900), 160 (1,875), 375 (800), 400 (750), 425 (705), 464 (600), 468 (640), 500 (600)	PG	X	Carriso (Inc.)	R. M. C. A.
Cartago	KDAA	375 (800), 425 (705), 500 (600)	PG	N	United Fruit S. S. Corporation	R. M. T. Co.
Cascade	KDIS	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	E. K. Wood Lumber Co.	Owner.
Cassy	KOQY	do	PG	X	Mississippi Shipping Co.	M. R. T. Co.
Casiana	WLCV	375 (800), 425 (705), 500 (600)	PG	X	Edward L. Dolery	R. M. C. A.
Cassimir	KDDZ	do	PG	X	Cuba Distilling Co.	Do.
Castan	KDFK	do	PG	X	Steamer Castana Corporation	Do.
Castell	WBCO	375 (800), 425 (705), 454 (660), 500 (600)	PG	X	Charles Nelson Co. (Inc.)	Do.
Castle Town	WBCO	375 (800), 425 (705), 500 (600)	PG	X	Cuba Distilling Co.	Do.
Catalonia	KPTG	375 (800), 425 (705), 500 (600), 2,320 (129.3)	PG	X	Wilmington Transportation Co.	Do.
Catalina	KPTG	375 (800), 425 (705), 500 (600)	PG	X	Wilmington Transportation Co.	M. R. T. Co.
Catherine	KTOI	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	A. H. Bull S. S. Co.	Do.
Catherine D.	KMAI	375 (800), 425 (705), 500 (600)	PG	N, X	Pacific American Fisheries	R. M. C. A.
Catherine G. Sudden	KFKR	375 (800), 425 (705), 500 (600)	PG	X	Sudden & Christenson	Owner.
Cathmet	KOLP	do	PG	X	American West African Line (Inc.)	R. M. C. A.
Cathwood	KURC	do	PG	X	Union Oil Co. of California	M. R. T. Co.
Catso	WPCU	do	PG	X	New York & Cuba Mail S. Co.	R. M. C. A.
Cayo Miami	KUZZ	do	PG	X	Cayo Miami S. S. Corporation	Do.
Cayo	WFDI	274 (1,665), 375 (800), 500 (600)	P	X	Sabine Towing Co.	Do.
C. B. Watson	WOBM	375 (800), 425 (705), 500 (600)	PG	X	Inland Waterways Corporation	Owner.
C. C. Webster	KDIT	444.3 (675), 500 (600)	PG	X	Pacific Spruce Corporation	M. R. T. Co.
C. D. Johnson III	KZAX	375 (800), 425 (705), 500 (600)	PG	X	Compania Maritima	Owner.
Cebu	WCDU	375 (800), 425 (705), 500 (600)	PG	X	Chas. R. McCormick Lumber Co.	Do.
Cello	KDQY	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.	R. M. C. A.
Cerro Azul	KDQY	do	PG	X	do	Do.
Cerro Ebano	KDQS	375 (800), 425 (705), 500 (600)	PG	X	Lincoln County Tug & Barge Co.	Do.
Chahuata	WTHK	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Stu Shipbuilding & Drydock Co.	R. M. C. A.
Challenger	WNHI	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Grace S. S. Co. (Inc.)	Do.
Charles	KITZ	do	PG	X	Christenson S. S. Co.	M. R. T. Co.
Charles Christenson	KINP	143 (2,100), 151 (1,985), 153 (1,900), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 468 (640), 500 (600)	PG	X	Rockport S. S. Co.	Owner.
Charles C. West	KFKK	do	PG	X	Pan American Petroleum & Transport Co.	R. M. C. A.
Charles E. Harwood	WPCB	do	PG	X	do	Do.

Charles G. Black.....	△	KGDD	143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	Standard Shipping Co.	Do.
Charles H. Cramp.....	△	KDHH	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600).	Nautilus S. S. Corporation.	Do.
Charles L. Hutchin- son.	△	WMIU	375 (800), 410 (730), 425 (705).	Pioneer S. S. Co.	Do.
Charles L. O'Connor.....	△	WMEA	375 (800), 425 (705), 500 (600).	M. & J. Tracy.	Owner.
Charles L. Wheeler.....	△	KPAA	375 (800), 410 (730), 425 (705), 454 (620), 500 (600).	Chas. R. McCormick Lumber Co.	R. M. C. A.
Charles M. Everest.....	△	WPOU	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	Vacuum Oil Co.	R. M. C. A.
Charles M. Schwab.....	△	WPBD	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 375 (800), 410 (730), 425 (705).	Inferlake S. S. Co.	R. M. C. A.
Charles Nelson.....	△	KDEQ	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	Charles Nelson Co.	R. M. C. A.
Charles Pratt.....	△	WOCM	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	Standard Shipping Co.	Do.
Charles R. McCormick.....	△	KCBZ	375 (800), 425 (705), 500 (600).	Charles R. McCormick Lumber Co.	Do.
Charles R. Wilson.....	△	KGNW	375 (800), 468 (640), 500 (600).	J. E. Shields.	Owner.
Charlie Watson.....	△	KDLA	375 (800), 400 (750), 410 (730), 425 (705), 500 (600).	Standard Oil Co. of California.	R. M. C. A.
Chatham.....	△	KGAN	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 400 (750), 425 (705), 468 (640).	Merchants & Miners Transp. Co.	Do.
Chattanooga City.....	△	KDUU	375 (800), 425 (705), 454 (600), 500 (600).	Isthmian S. S. Co.	Do.
Cherokee.....	△	WTCI	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600).	Cherokee-Seminole S. S. Corporation.	Do.
Chester.....	△	WTDI	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	New York Shipbuilding Corporation	Owner.
Chester O. Swain.....	△	WRBK	143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (600), 468 (640), 500 (600).	Standard Shipping Co.	R. M. C. A.
Chester Sun.....	△	KGMV	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).	Motor Tankship Corporation.	Do.
Chester Valley.....	△	KOST	375 (800), 425 (705), 500 (600).	U. S. S. B.	Do.
Chester W. Chapin.....	△	WRGQ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	New England S. S. Co.	Do.
Chetopa.....	△	KDJJ	375 (800), 425 (705), 454 (600), 500 (600).	Charles Nelson Co. (Inc.)	Do.
Chickamauga.....	△	KFXA	375 (800), 425 (705), 500 (600).	Pacific Towboat Co.	Owner.
Chickasaw.....	△	KOJR	do.	American Scenic Line (Inc.)	R. M. C. A.
Chickasaw City.....	△	KUNZ	do.	U. S. Steel Products Co.	Do.
Chicken of the Sea.....	△	KGOH	do.	H. E. Morgan.	Do.
Chilbrar.....	△	KENS	375 (800), 425 (705), 454 (600), 500 (600).	Chile S. S. Co.	Do.
Chillico.....	△	KJGD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	do.	Do.
Chillico.....	△	KFFN	375 (800), 425 (705), 500 (600).	Alaska Packers Association	Owner.
Chillico.....	△	KUPV	do.	R. M. C. A.	Do.
Chilora.....	△	KFIV	375 (800), 400 (750), 425 (705), 500 (600).	Ore S. S. Corporation.	Do.
Chilso.....	△	KDHU	375 (800), 425 (705), 500 (600).	Chile S. S. Co.	Do.
China Arrow.....	△	KDGV	375 (800), 400 (750), 425 (705), 454 (600), 468 (640), 500 (600).	Standard Transportation Co.	Do.
Chircha.....	△	WQCE	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	American-South African Line.	Do.
Chirpava.....	△	KDJS	375 (800), 410 (730), 425 (705), 500 (600).	Standard Dredging Co.	Owner.
Chirlif.....	△	WMCQ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	Alaska Packers Association.	Do.
Christophler Columbus.....	△	WPCW	375 (800), 410 (730), 425 (705).	Goodrich Transit Co.	R. C. A.
Christy Payne.....	△	WRBM	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).	Standard Shipping Co.	Do.
Churruca.....	△	KZPC	396 (750), 500 (600).	Ty Camco Sobrino.	Owner.
Cities Service Boston.....	△	KFKP	375 (800), 425 (705), 500 (600).	Cities Service Transportation Co.	R. M. C. A.
Cities Service Denver.....	△	KDNN	375 (800), 425 (705), 500 (600).	(Inc.)	Do.
Cities Service Empire.....	△	KMAU	375 (800), 410 (730), 425 (705), 454 (600), 500 (600).	do.	M. R. T. Co.

RADIO DIVISION, DEPARTMENT OF COMMERCE

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—
Cities Service Fuel.....Δ	WHCP	375 (800), 425 (705), 500 (600)	PG	X	Cities Service Transportation Co. (Inc.)	R. M. C. A.
Cities Service Kansas.....Δ	KERZ	do	PG	X	do	Do.
Cities Service Kool-motor.	WGAO	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Cities Service Refining Transportation Co.	M. R. T. Co.
Cities Service Missouri.....Δ	KDGO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Cities Service Transportation Co. (Inc.)	R. M. C. A.
Cities Service Ohio.....Δ	KDPQ	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.
Cities Service Oklahoma	KESR	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	do	Do.
Cities Service Petrol.....Δ	KDMB	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Cities Service Toledo.....Δ	WOGS	do	PG	X	do	Do.
City of Alma.....	KURP	do	PG	X	do	Do.
City of Alton.....	KONZ	do	PG	X	U. S. S. B.	M. R. T. Co.
City of Atlanta.....	WFCI	do	PG	X	do	Do.
City of Benton Harbor.....	WPCX	do	PG	X	Ocean S. S. Co. of Savannah.	Do.
City of Birmingham.....Δ	WFOK	375 (800), 410 (730), 425 (705)	PG	X	Goodrich Transit Co.	C. A.
City of Buffalo.....	WTCR	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Ocean S. S. Co. of Savannah.	R. M. C. A.
City of Chattanooga.....	WFLC	375 (800), 410 (730), 425 (705)	PG	X	Cleveland & Buffalo Transit Co.	Do.
City of Cleveland III.....Δ	WNCM	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 410 (730), 425 (705)	PG	N	Ocean S. S. Co. of Savannah.	Do.
City of Columbus.....	WFCM	375 (800), 425 (705), 500 (600)	PG	N	Detroit & Cleveland Navigation Co.	R. M. C. A.
City of Dulhart.....	KDNP	143 (2,100), 153 (1,960), 157 (1,910), 159 (1,875), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	N, X	U. S. S. B.	Do.
City of Detroit III.....Δ	WNCN	143 (2,100), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	PG	N, X	Detroit & Cleveland Navigation Co.	R. M. C. A.
City of Elwood.....	KDMV	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	N, X	U. S. S. B.	Do.
City of Erie.....	WTCS	375 (800), 410 (730), 425 (705)	PG	X	Detroit & Cleveland Navigation Co.	R. C. A.
City of Fairbury.....Δ	KISR	do	PG	X	U. S. S. B.	Do.
City of Flint.....	KUCV	375 (800), 410 (730), 425 (705)	PG	X, N	Cleveland & Buffalo Transit Co.	M. R. T. Co.
City of Flint 32.....Δ	WDOI	375 (800), 410 (730), 425 (705)	PG	X, N	American Seantic Line (Inc.)	R. M. C. A.
City of Grand Rapids.....	KFFS	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	U. S. S. B.	Owner.
City of Holland.....	WSCS	375 (800), 425 (705), 500 (600)	PG	X	Pere Marquette Ry. Co.	R. C. A.
City of Honolulu.....	KONS	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
City of Houston.....	KUIR	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 454 (600), 500 (600)	PG	X	Los Angeles S. S. Co.	R. M. C. A.
City of Los Angeles.....	KOZC	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Southern S. S. Co.	Owner.
City of Lowell.....	WRCB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
City of Montgomery.....	WFCN	375 (800), 425 (705), 500 (600)	PG	X	Los Angeles S. S. Co.	Do.
			PG	N	New England S. S. Co.	Do.
			PG	N	Ocean S. S. Co. of Savannah.	Do.

RADIO STATIONS OF THE UNITED STATES

Call Letters	City	Frequency	Power	Class	Owner
WFBB	City of New York	375 (800), 400 (750), 425 (705), 500 (600), 3,200 (91.2), 4,405 (68.1), 5,650 (53.1), 6,680 (45.39), 8,810 (34.05), 11,200 (26.78), 11,300 (26.65), 13,187 (22.75), 16,717 (17.945), 19,500 (17.57), 21,803 (13.758)	PG	N	Commander R. E. Byrd
WQDC	Do	143 (2,100), 151 (1,935), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	American-South African Line
KOZB	City of Omaha	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.
WMDY	City of Omaha	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600), 5,525 (54.3), 8,250 (30.19), 8,450 (35.5), 1,050 (27.15), 11,200 (26.71), 13,240 (22.66), 16,660 (18.007)	PG	X	Panama Mail S. S. Co.
KONT	City of Philadelphia	375 (800), 425 (705), 500 (600)	P	X	Southern S. S. Co.
KDGS	City of Rayville	143 (2,100), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X, N	U. S. S. B.
WDCH	City of Saginaw 31	375 (800), 410 (730), 425 (705)	PG	X	Pere Marquette Ry. Co.
WMDW	City of San Francisco	375 (800), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600), 5,525 (54.3), 5,535 (54.1), 8,280 (30.19), 8,450 (35.5), 1,050 (27.15), 11,200 (26.71), 13,240 (22.66), 16,580 (18.094), 16,660 (18.007)	PG	X	Panama Mail S. S. Co. (Inc.)
KFET	City of Saugatuck	375 (800), 410 (730), 425 (705)	PG	X	Goodrich Transit Co.
WFCQ	City of Savannah	375 (800), 425 (705), 500 (600)	PG	X	Ocean S. S. Co. of Savannah
KFTT	City of St. Joseph	375 (800), 410 (730), 425 (705)	PG	X	Goodrich Transit Co.
WFPP	City of St. Louis	375 (800), 425 (705), 500 (600)	PG	X	Ocean S. S. Co. of Savannah
WSBB	City of Victoria	do	PG	X	Edmonds Victoria Ferry Co.
KUVC	City of Weatherford	do	PG	X	U. S. S. B.
KIKR	Clairton	do	PG	X	do
WKCB	Clare	do	PG	X	A. H. Bull S. S. Co.
KUBD	Claremont	do	PG	X	W. H. Wood
KOLL	Clavareck	do	PG	X	Mississippi Shipping Co.
KUGD	Clearwater	do	PG	X	do
WADE	Clemens A. Reiss	375 (800), 410 (730), 425 (705)	PG	X	M. R. T. Co.
KMEO	Cletus Schneider	375 (800), 410 (730), 425 (705)	PG	X	Owner
KDYY	Cleveland Cliffs S. S. Co. (general call for all vessels)	do	PG	X	Owner
KDWA	Clifford F. Moll	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	Cleveland Cliffs S. S. Co.
KORX	Chihuahua	375 (800), 425 (705), 500 (600)	PG	X, N	American S. S. Co.
KOMP	Chihuahua County	do	PG	X	U. S. S. B.
WKCW	Coamo	143 (2,100), 151 (1,935), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Coamo S. S. Corporation
WKCZ	Coastwise	375 (800), 425 (705), 500 (600)	PG	X	Coastwise Transportation Co.
WPUU	Coaxet	do	PG	X	U. S. S. B.
KOFN	Cockaponset	do	PG	X	do
KDEX	Cody	do	PG	X	do
KOVV	Colelith	do	PG	X	do
KQKQ	Coldbrook	do	PG	X	do
KUBR	Cold Harbor	do	PG	X	do
KUCX	Coldwater	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	South Atlantic S. S. Co.
KOZZ	Collamer	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.
KUKX	Collingsworth	do	PG	X	do
WNCT	Columbia	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), 5,525 (54.3), 5,535 (54.1), 8,280 (30.19), 8,450 (35.5), 11,050 (27.15), 11,200 (26.71), 13,240 (22.66), 16,580 (18.094), 16,660 (18.007)	PG	X	Panama Mail 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—
Col. James M. Schoonmaker.....Δ	WTBM	375 (800), 410 (730), 425 (705)	PG	X	Shenango Furnace Co.....	R. C. A.
Colonel.....Δ	WDDS	375 (800), 410 (730), 425 (705)	PG	X	Fontana S. S. Co.....	Owner.
Col. James Piekandis...Δ	WPBE	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	PG	X	Interlake S. S. Co.....	R. C. A.
Colorado Springs.....	KILK	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	R. M. C. A.
Columbia.....	WGDY	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	E. W. Noble.....	Owner.
Columbian.....Δ	WACC	375 (800), 425 (705), 500 (600)	PG	X	American-Hawaiian S. S. Co.....	Do.
Columbine.....	WQBF	do	PG	X	Union Shipbuilding Co.....	Do.
Conal.....	WHCD	do	PG	X	Mallory S. S. Co.....	Do.
Comber.....	KFKK	375 (800), 400 (750), 425 (705), 468 (600)	PG	X	Bay State Fishing Co.....	Do.
Commercial.....	KULT	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.....	Do.
Commercial Bostonian.....	KEPM	do	PG	X	Mooremack Gulf Lines (Inc.).....	M. R. T. Co.
Commercial Courier.....	WLEP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Commercial Courier S. S. Co.....	R. M. C. A.
Commercial Floridian.....	KUGN	375 (800), 425 (705), 500 (600)	PG	X	Mooremack Gulf Lines (Inc.).....	M. R. T. Co.
Commercial Guido.....	WDDD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Nyanza S. S. Co.....	R. M. C. A.
Commercial Martiner.....	KUDD	do	PG	X	do	Do.
Commercial Navigator.....	KIRB	375 (800), 425 (705), 500 (600)	PG	X	Mooremack Gulf Lines (Inc.).....	M. R. T. Co.
Commercial Orleanian.....	WFCR	do	PG	X	do	Do.
Commercial Pioneer.....	KUNC	do	PG	X	do	Do.
Commercial Quaker.....	KUGM	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Honolulu S. S. Co.....	R. M. C. A.
Commercial Trader.....	WDDC	do	PG	X	do	Do.
Commissioner.....	KOGZ	375 (800), 425 (705), 500 (600)	PG	X	Merritt-Chapman & Scott Corporation.....	Do.
Commodore.....	WOBJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	Do.
Commonwealth.....	WRCC	do	PG	X	Lewers & Cooke.....	Do.
Comoco.....	KGMZ	do	PG	X	New England S. S. Co.....	Do.
Compania de Filipinas.....	KZEP	500 (600)	PG	X	R. W. Judson.....	Do.
Concord.....	WRCY	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Compania General de Tabacos de Filipinas.....	Owner.
Condor.....	KDCC	375 (800), 425 (705), 500 (600)	PG	X	Colonial Navigation Co.....	R. M. C. A.
Connetaut.....Δ	WADY	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	P	X	Grace S. S. Co. (Inc.).....	Do.
Conness Peak.....	KUPL	375 (800), 425 (705), 500 (600)	PG	X	Wyandotte Transportation Co.....	Owner.
Conseco.....	KDTE	125 (2,400), 137 (2,100), 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. S. B.....	R. M. C. A.
Constance Chandler.....	WFBI	375 (800), 425 (705), 500 (600)	PG	X	John W. Hubbard.....	Do.
Consecho.....	KZBY	375 (800), 425 (705), 500 (600)	PG	X	Los Angeles S. S. Co.....	M. R. T. Co.
Contoy.....	KSOI	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Vincente Madrigal.....	Owner.
Coot.....	KUAM	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Gulf Mail S. S. Co.....	R. M. C. A.
Coppename.....Δ	KDAF	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	Portland Trawling Co.....	Do.
	KDAF	375 (800), 425 (705), 500 (600)	PG	X	United Fruit S. S. Corporation.....	T. R. T. Co.

Conquina	WVAA	375 (800), 425 (705), 500 (600)	Pillsbury & Curtis	R. M. C. A.
Cordova	KFMF	274 (1,095), 375 (800), 500 (600)	Inland Waterways Corporation	Owner
Do.	WCCS	375 (800), 425 (705), 500 (600)	Alaska S. S. Co.	M. R. T. Co.
Corinto	KQOV	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	Panama Mail S. S. Co.	R. M. C. A.
Coronant	WGDV	375 (800), 400 (750), 425 (705), 500 (600)	Ocean Traveling Co.	Do.
Cornelia	WYOC	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	A. H. Brill S. S. Co.	Do.
Cornell	WYOC	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	General Sea Foods Corporation	Do.
Conore	WN1U	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 400 (750), 425 (705), 500 (600)	Ore S. S. Corporation	Do.
Coronado	WBDJ	375 (800), 425 (705), 500 (600)	U. S. S. B.	Do.
Coronac	WRBD	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	Irving T. Bush	Do.
Corrales	WPIE	375 (800), 425 (705), 500 (600)	Pillsbury & Curtis	Do.
Corsair	WQDZ		J. Pierpont Morgan	Do.
Couagneons	WV1A	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	U. S. S. B.	Do.
Covina	KEMP	375 (800), 425 (705), 500 (600)	Hammond Lumber Co.	M. R. T. Co.
Coyu	KISC	do.	Grace S. S. Co. (Inc.)	R. M. C. A.
Craigsmere	WXGO	do.	M. & J. Tracy	Do.
Crampton Anderson	KDOH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	Pan American Petroleum & Transport Co.	Do.
Cranford	KOLX	375 (800), 425 (705), 500 (600)	U. S. S. B.	Do.
Creole	WEDN	do.	Carv-Davis Tug & Barge Co.	Owner
Do.	WICB	do.	Southern Pacific Co.	Do.
Crescent City	KGQO	375 (800), 410 (730), 425 (705)	Nicholson Universal S. S. Co.	R. C. A.
Cressida	WNBD	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600), 8,200 (36.19), 8,330 (36.01), 8,450 (35.5), 11,050 (27.15), 11,230 (26.71), 12,240 (22.66)	Albert E. Petree	R. M. C. A.
Crest	WPRK	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	Bay State Fishing Co.	Do.
Cripple Creek	KOJL	375 (800), 425 (705), 500 (600)	U. S. S. B.	Do.
Cristobal	WCCB	143 (2,100), 151 (1,985), 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)	Panama R. R. Co.	Do.
Crown Hall	WDCW	375 (800), 425 (705), 500 (600)	Isthmian S. S. Co. (Inc.)	Do.
Crown City	KUSP	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 325 (845), 375 (800), 425 (705), 500 (600)	U. S. S. B.	Do.
Crusader	KGFC		Abram K. Macomber	Radio Communication Co. (Ltd.) of London, England
Cuba	KDRT	375 (800), 425 (705), 500 (600)	Peninsular & Occidental S. S. Co.	R. M. C. A.
Cubore	KUPP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	U. S. S. B.	Do.
Culberson	KDDV	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	Pacific Motorship Co.	M. R. T. Co.
Culburre	KOZR	375 (800), 425 (705), 500 (600)	Pacific S. S. Co.	Do.
Curlew	WGLL	do.	Portland Trawling Co.	R. M. C. A.
Do.	KOSZ	3,112 (66.40), 5,525 (54.3), 5,615 (53.42)	Alaska Packers Association	Owner
Currier	WRBV	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	Gulf Refining Co.	R. M. C. A.
Cuzco	WJCA	375 (800), 425 (705), 500 (600)	Grace S. S. Co. (Inc.)	Do.
Cuzco	KIKM			

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—
Cyprus.....	WTBE	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	International Exploration Corporation.	R. M. C. A.
Dakotan.....	WACD	375 (800), 425 (705), 468 (640)	PG	X	American-Hawaiian S. Co.	Owner.
Daniel J. Morrell.....	KGRD	375 (800), 425 (705), 468 (640)	PG	X	Cambria S. Co.	Do.
Daniel Kern.....	KDXG	375 (800), 425 (705), 468 (640)	PG	X	Bellingham Tug & Barge Co.	Do.
Danville.....	KOPD	375 (800), 425 (705), 468 (640)	PG	X	Dannedake Shipping Co.	R. M. C. A.
Dartmouth.....	WQJG	375 (800), 400 (750), 425 (705), 468 (640)	PG	X	General Sea Foods Corporation.	Do.
Davaco.....	KZFC	375 (800), 400 (750), 425 (705), 468 (640)	PG	X	Mariano Cu Unjiong.	Owner.
Davaco.....	KUDR	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Davico.....	KGOB	375 (800), 425 (705), 468 (640)	PG	X	Lobby, McNeill & Libby.	Owner.
David McKelvey.....	KDPT	375 (800), 425 (705), 468 (640), 500 (600)	P	X	Tidewater Oil Co.	Owner.
David P. Fleming.....	WPRS	2,522 (118.89), 2,500 (117.2), 2,584 (116.10)	P	X	Wilmington Transportation Co.	R. M. C. A.
David P. Thompson.....	KGRP	375 (800), 410 (750), 425 (705)	PG	X	Pioneer S. Co.	Owner.
Davin Star.....	WALRP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	John J. Morgan.	Do.
Dean Emery.....	KOPG	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. Challenger.....	WIBDF	375 (800), 410 (750), 425 (705)	PG	X	Morrow S. S. Co.	R. C. A.
Deer Lodge.....	KIMU	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Defacto.....	KOKC	143 (2,100), 151 (1,987), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 410 (750), 425 (705), 468 (640), 500 (600)	PG	X	American Sugar Transit Corporation.	Do.
Defiance.....	WTBS	143 (2,100), 151 (1,987), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 410 (750), 425 (705), 468 (640), 500 (600)	PG	X	U. S. S. B.	Do.
Delaware Sun.....	KDWQ	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Sun Oil Co.	Do.
Delceto.....	WVNC	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	American Sugar Transit Corporation.	Do.
Delceto.....	KULP	375 (800), 425 (705), 468 (640), 500 (600)	PG	N, X	Alaska Packers Association (Inc.)	Owner.
Delina.....	KVVS	375 (800), 425 (705), 500 (600)	PG	X	Baltimore Insular Line.	Do.
Delight.....	KVSE	143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Great Southern Lumber Co.	R. M. C. A.
Delisle.....	KVTP	143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Baltimore Insular Line.	Do.
Delphine.....	KDRR	143 (2,100), 153 (1,960), 155 (1,935), 157 (1,910), 375 (800), 394 (760), 410 (750), 425 (705)	PG	N	Anna Dodge Dillman.	R. C. A.
Demopolis.....	KFMG	375 (800), 425 (705), 500 (600)	P	X	Inland Waterways Corporation.	Owner.
Dennal.....	KDFU	173 (1,965), 375 (800), 500 (600)	PG	N, X	Alaska S. S. Co.	Do.
Dennal.....	KDFU	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 375 (800), 425 (705), 500 (600)	PG	N, X	do	do
Depere.....	KDBA	375 (800), 425 (705), 500 (600)	PG	X	do	do
Derby.....	KDVT	do	PG	X	do	do
Derbyline.....	KRBT	do	PG	X	do	do
Derbyline.....	KOBI	do	PG	X	do	do
Derbyline.....	KOBI	do	PG	X	do	do
Derbyline.....	KOBI	do	PG	X	do	do
D. G. Scfield.....	WOGA	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Texas Co.	M. R. T. Co.
Diamond Cement.....	KVGS	375 (800), 425 (705), 500 (600)	PG	X	Union Oil Co. of California.	Do.
Diamond Head.....	KERVX	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California.	Do.
Diana Dollar.....	KDYG	375 (800), 410 (750), 425 (705), 468 (640), 500 (600)	PG	N	Pacific Coast S. S. Co.	Do.
Dickson.....	KFHH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Los Angeles S. S. Co.	Do.
Dickson.....	KFHH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Dollar S. S. Lines (Inc.)	Do.
Dickson.....	KFHH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Commercial Pacific Cable Co.	Do.

Dillwyn.	KODX	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Malston Co.	Do.
Dilworth.	KOVJ	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600).	PG	X	Dilworth S. S. Co.	Do.
Dio.	WNEO	375 (800), 425 (705), 500 (600)				
Ditigo.	KEGM	do.				
Distict of Columbia.	KDMZ	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	Finkbine-Guild Transportation Co.	Do.
Dixano.	KDPS	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California	M. R. T. Co.
Dixie.	WIGX	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	American Sugar Transit Co.	R. M. C. A.
Dixie Arrow.	KDVT	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Southern Pacific Co.	Owners.
D. J. Moran.	WPCS	do.				
D. M. Renton.	KGEC	2,524 (118,863), 2,560 (117,212), 2,584 (116,110)	PG	X	Continental S. S. Co.	R. M. C. A.
Doelst.	KLMR	375 (800), 425 (705), 500 (600)	P	X	Wilmington Transportation Co.	Owner.
Dofecta.	WLGR	do.	PG	X	Finkbine-Guild Transportation Co.	R. M. C. A.
Dollar S. S. Lines (general call signal for any or all vessels).	WDOL	do.	PG	X	Laircoln Co. Tug & Barge Co.	Owner.
Dolly Co.	KFAL	do.				
Domingo-A.	KZEB	400 (750), 500 (600)	PG	X	Cary Davis Tug & Barge Co.	Do.
Domingo.	KIZB	375 (800), 425 (705), 500 (600)	PG	X	Mariano Cu Unjongs.	Do.
Don Juan O.	KZGZ	455 (600), 500 (600)	PG	X	American Sugar Transit Corporation.	R. M. C. A.
Donna Lane.	KDGN	375 (800), 425 (705), 500 (600), 5,525 (54.3), 8,430 (35.60), 8,450 (35.5)	PG, P	X	Rio Olabarieta	Do.
Doodcan.	WIDD	11,170 (53,867), 11,340 (50,463), 16,700 (17,864), 21,820 (13,749)	PG	X	Utomon Fisheries (Inc.)	Do.
Dora.	KOKR	375 (800), 425 (705), 500 (600)	PG	X	W. Charles Swedes	R. M. C. A.
Dora Veerns.	WACZ	do.	PG	X	Steamship Poca Corporation.	Owner.
Dorchester.	KGBG	143 (2,100), 151 (1,985), 153 (1,900), 157 (1,910), 159 (1,855), 160 (1,875), 375 (800), 400 (750), 425 (705), 434 (660), 468 (640), 500 (600)	PG	N	Baltimore & Carolina Line (Inc.)	R. M. C. A.
Doris E.	WFDX	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Merchants & Miners Transpn. Co.	Do.
Doris Kellogg.	KONM	2,324 (123,311), 2,428 (123,353)	PG	X	R. O'Brien & Co. (Inc.)	Owner.
Dorothy.	KDLC	375 (800), 425 (705), 500 (600)	PG	X	Alaska Pacific Salmon Corporation.	R. M. C. A.
Dorothy Alexander.	KX115	do.	PG	X	New York & Philippine Corporation.	Owner.
Dorothy Bradford.	WFCQ	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	A. H. Bull & Co. (Inc.)	Do.
Dorothy Cahill.	WFDK	375 (800), 425 (705), 500 (600)	PG	X	P. O. Hyattum.	Do.
Dorothy Intenbenach.	WJDU	do.	PG	X	Pacific S. S. Co.	M. R. T. Co.
Dorothy Winternote.	KLUJ	do.	PG	X	Cape Cod S. S. Co.	Owner.
Dos Hermanos.	KZDD	396.8 (796), 500 (600)	PG	X	Christensen S. S. Co.	M. R. T. Co.
Douglas.	KFMM	375 (800), 425 (705), 500 (600)	PG	X	Luckenbach S. S.	R. M. C. A.
Doyesfown.	KIFG	do.	PG	X	Frank Paramino	Do.
Dream Girl.	WKDY	do.	PG	X	Gutierrez Hermanos.	Owner.
Dryden.	KORK	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Cary Davis Tug & Barge Co.	Do.
Dungannon.	KUZV	375 (800), 425 (705), 500 (600)	PG	X	Charles Neilson Co.	Do.
Durango.	KECS	do.	PG	X	Henny E. Fields	R. M. C. A.
Duranto.	KDBT	143 (2,100), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Texas Co.	Do.
Dwight F. Davis.	WJDE	274 (1,085), 400 (750), 425 (705), 500 (600), 3,420 (87.7), 6,515 (46.0)	PG	X	U. S. S. B.	Do.
Eagle.	WSCL	375 (800), 400 (750), 425 (705), 500 (600)	P	X	Malston Co. (Inc.)	Do.
Eastling.	KEJD	375 (800), 425 (705), 500 (600)	PG	X	Inland Waterways Corporation.	R. M. C. A.
Eastern Crown.	KUNQ	do.	PG	X	Standard Transportation Co.	Do.
Eastern Dawn.	KUQT	131 (2,230), 137 (2,160), 141 (2,180), 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.

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—
Easterner.....	WGEA	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Eastern Glade.....	KUND	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), 425 (705), 500 (600)	PG	N, X	Pacific Coast S. S. Co.	M. R. T. Co.
Eastern Guide.....	KUCN	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 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.
Eastern Planet.....	KUPD	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Eastern States.....	WTCB	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	N, X	Detroit & Cleveland Navigation Co.	R. M. C. A.
Eastern Sun.....	KGOB	375 (800), 425 (705), 500 (600)	PG	X	Motor Tankship Corporation	R. M. C. A.
Eastern Temple.....	KDEZ	143 (2,100), 375 (800), 410 (730), 425 (705), 500 (600)	PG	X	High Seas Transportation (Inc.)	Do.
East Indian.....	WGEI	375 (800), 425 (705), 500 (600)	PG	X	Ford Motor Co.	R. M. C. A.
East Side.....	KIMO	375 (800), 400 (780), 425 (705), 468 (640), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Ebb.....	WODA	375 (800), 425 (705), 500 (600)	PG	X	Bay State Fishing Co.	Do.
Eclipse.....	KEGF	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,875), 160 (1,875), 375 (800), 400 (780), 410 (730), 425 (705), 451 (600), 468 (640), 500 (600), 525 (54, 3), 8, 200 (36, 19), 8, 450 (35, 5), 11, 050 (27, 15), 11, 230 (26, 71), 13, 240 (22, 60), 16, 580 (18, 004), 16, 680 (18, 007)	PG	X	U. S. S. B.	Do.
Boundary.....	WNCW	375 (800), 425 (705), 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. Luckenbach.....	WLCA	do	PG	X	Luckenbach S. S. Co.	Do.
Edgewater.....	KEBF	do	PG	X	U. S. S. B.	Do.
Edgemoor.....	KEFN	do	PG	X	do	Do.
Edgemont.....	KEFP	do	PG	X	do	Do.
Edgemoor.....	KEVF	do	PG	X	do	Do.
Edith.....	WVKD	do	PG	X	A. H. Bull S. S. Co.	Do.
Editor.....	KORG	do	PG	X	Sudden & Christenson	Owner.
Edna.....	KIFP	do	PG	X	U. S. S. B.	Do.
Edna Christenson.....	WEDV	do	PG	X	do	Do.
Edward J. Berwind.....	KEFY	375 (800), 410 (730), 425 (705)	PG	X	Franklin S. Corporation	R. M. C. A.
Edward L. Doheny.....	WPQP	375 (800), 400 (780), 425 (705), 468 (640), 500 (600)	PG	X	P. American Petroleum & Transport Co.	R. M. C. A.
Edward L. Shea.....	KTSE	143 (2,100), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (780), 410 (730), 425 (705), 454 (600), 469 (640), 500 (600)	PG	X	Tyde Water Associated Transport Corporation	Do.
Edward Luckenbach.....	WLCB	375 (800), 425 (705), 500 (600)	PG	X	Luckenbach S. S. Co.	Do.
Edward Peirce.....	KMOU	375 (800), 410 (730), 425 (705)	PG	X	Myrtle S. S. Co.	Do.
Edward Y. Townsend.....	KGBE	375 (800), 425 (705), 500 (600)	PG	X	Chambria S. S. Co.	Owner.
Edwin Christenson.....	WCOG	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Christenson S. S. Co.	M. R. T. Co.
Elbeek.....	KINQ	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Elfmuth.....	KOLT	375 (800), 425 (705), 500 (600)	PG	X	do	R. M. C. A.
Elfin.....	KOMT	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Eglantine.....	KOPT	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	do	Do.

E. G. Mathiott.....	△ KFUB	375 (800), 410 (730), 425 (705)				Valley Camp S. S. Co.	R. C. A.
Egremont.....	KQBS	375 (800), 425 (705), 500 (600)				U. S. B.	Owner.
Elmar, Beyer.....	KCQB	2,425 (23,355)				Alaska Pacific Fisheries Co.	R. M. C. A.
E. J. Nicklos.....	△ KCOB	375 (800), 425 (705), 500 (600)				Continental S. Co.	Do.
E. J. Sadler.....	△ KGAJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)				Standard Shipping Co.	Owner.
El Alba.....	WICD	375 (800), 425 (705), 500 (600)				Southern Pacific Co.	Do.
El Almirante.....	KLFE	do				do	Do.
El Capitán.....	KLLE	do				E. K. Wood Lumber Co.	Do.
Do.....	WICF	do				Southern Pacific Co.	Do.
El Centro.....	WVOE	do				James Griffiths & Sons	R. M. C. A.
El Cid.....	WICG	do				Southern Pacific Co.	Owner.
El Coscon.....	WGH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)				Southern Pacific Co.	Do.
Elda.....	WQDS	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)				Arthur V. Davis	R. M. C. A.
Eidena.....	WQDS	375 (800), 425 (705), 500 (600)				U. S. B.	Owner.
El Din.....	KFVG	375 (800), 425 (705), 500 (600)				Southern Pacific Co.	M. R. T. Co.
El Dorado.....	WICI	do				Western Transport Co.	Commander Richard E. Byrd.
El Dorado.....	WFOI	375 (800), 425 (705), 500 (600)				Christenson S. S. Co.	R. M. C. A.
Eleanor Belling.....	KWFL	5,645 (58,701), 6,375 (45,620), 4,670 (31,600), 11,260 (26,571), 12,820 (23,401), 16,000 (17,800), 21,820 (15,719)				W. B. Bell	Do.
Eleanor Christenson.....	KOTL	375 (800), 425 (705), 500 (600)				Southern Pacific Co.	Owner.
Elena.....	WSBE	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875)				Inter-Island Steam Navigation Co.	R. M. C. A.
El Estero.....	WICJ	375 (800), 400 (750), 425 (705), 454 (660), 468 (640), 500 (600)				George Whitell, Jr.	R. M. C. A.
Eliau.....	WJDH	375 (800), 425 (705), 500 (600)				Pan American Petroleum & Transport Co.	Owner.
Elia.....	KFNE	375 (800), 425 (705), 500 (600)				Southern Pacific Co.	R. M. C. A.
Elisha Walker.....	KDGG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)				Southern Pacific Co.	Owner.
El Isleo.....	WICK	375 (800), 425 (705), 500 (600)				A. H. Bull S. Co.	R. M. C. A.
Elizabeth.....	KORC	do				New York & Philippine S. S. Corporation.	Do.
Elizabeth Kellogg.....	KUPK	do				U. S. S. B.	Owner.
Elkhorn.....	KOCL	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 100 (1,875), 375 (800), 425 (705), 500 (600)				Southern Pacific Co.	Do.
El Lago.....	WICL	375 (800), 425 (705), 500 (600)				A. H. Bull S. Co.	Do.
Elleanor.....	KUGX	do				American Tug Boat Co.	Do.
Elmore.....	KFFG	do				U. S. S. B.	R. M. C. A.
Elmsport.....	KILF	do				Southern Pacific Co.	Owner.
El Mundo.....	WICM	do				do	Do.
El Norte.....	WICN	do				do	Do.
El Occidente.....	WICP	do				do	Do.
El Oceano.....	WICO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)				John C. Payer	Do.
El Oiso.....	KFVT	8,330 (36,011), 8,370 (35,011)				Southern Pacific Co.	Do.
El Oriente.....	WICQ	375 (800), 425 (705), 500 (600)				Panama Mail S. Co. (Inc.)	R. M. C. A.
El Salvador.....	△ KJEU	375 (800), 400 (750), 425 (705), 468 (640), 500 (600), 8,250 (36,191), 8,450 (33,511), 11,050 (27,151), 11,230 (24,711), 13,240 (22,001), 16,880 (13,094), 16,060 (18,007)				Standard Oil Co. of California	Do.
El Segundo.....	△ WOCC	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)				Southern Pacific Co.	Owner.
El Siglo.....	WICR	375 (800), 425 (705), 500 (600)				Interlark S. S. Co.	R. C. A.
Elton Hoyt II.....	△ KGBB	375 (800), 410 (730), 425 (705)				Southern Pacific Co.	Owner.
El Valle.....	WICS	375 (800), 425 (705), 500 (600)				Alaska Salmon Co.	Do.
Elwyn C. Hale.....	KZOA	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)				Standard Shipping Co.	R. M. C. A.
E. M. Clark.....	△ KGAB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)					

Excellency.....	KISS	do	PG	X	do	.....	Do.
Exello.....	KIPV	do	PG	X	do	.....	Do.
Exelsior.....	KUPT	do	PG	X	do	.....	Do.
Exchange.....	KIGR	375 (800), 425 (705), 454 (660), 500 (600)	PG	X	do	.....	Do.
Exchester.....	KUNV	375 (800), 425 (705), 500 (600)	PG	X	do	.....	Do.
Executive.....	KDDM	do	PG	X	do	.....	Do.
Exermont.....	KUDP	do	PG	X	do	.....	Do.
Exford.....	KEFC	do	PG	X	do	.....	Do.
Exhibitor.....	WCDK	do	PG	X	do	.....	Do.
Exilona.....	KOTX	do	PG	X	do	.....	Do.
Exiria.....	KIQV	do	PG	X	do	.....	Do.
Exminister.....	KIBQ	do	PG	X	do	.....	Do.
Exmoor.....	KODB	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do	.....	Do.
Exmouth.....	KUGS	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	.....	Do.
Explorer.....	KEFT	do	PG	X	do	.....	Do.
Exporter.....	KEBZ	do	PG	X	do	.....	Do.
Express.....	KODV	do	PG	X	do	.....	Do.
Exavin.....	KOSM	do	PG	X	do	.....	Do.
Exton.....	WJAA	do	PG	X	do	.....	Do.
F. A. Bailey.....	WTJL	143 (2,100), 151 (1,985), 375 (800), 410 (730), 425 (705)	PG	X	do	.....	Owner Cleveland Cliff's S. Co.
Faba.....	WGDG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	.....	John Chisholm Fisheries Co.
Fairfax.....	KGCE	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 400 (750), 425 (705), 500 (600)	PG	X	do	.....	Merchants & Miners Transpn. Co.
Fairfield.....	WHDH	143 (2,100), 151 (1,985), 157 (1,910), 160 (4,873), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	.....	Quinnipiac Shipping Corporation.
Fairfield City.....	KDPY	375 (800), 425 (705), 500 (600)	PG	X	do	.....	U. S. Steel Products Co.
Faith.....	KGBDQ	375 (800), 400 (750), 425 (705), 451 (660), 500 (600)	PG	X	do	.....	Courthand S. Brown
Falcon.....	KIND	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	.....	Atlantic & Caribbean Steam Navigation Co.
Fan Kwai.....	KGCW	2,740 (408.5)	P	X	do	.....	H. I. Rogers.
Farwest.....	WIDX	2,320 (129.3)	P	X	do	.....	Farwest Fisheries (Inc.)
Favorite.....	KDNY	125 (2,400), 167 (1,705), 375 (800), 500 (600)	PG	X	do	.....	Panama Canal
Do.....	KIFG	375 (800), 410 (730), 425 (705), 5,525 (54.3), 5,615 (53.42), 8,330 (36.01)	PG	X	do	.....	Great Lakes Towing Co.
Fayette Brown.....	WEDF	375 (800), 410 (730), 425 (705)	PG	X	do	.....	Interlake S. S. Co.
F. C. Latrobe.....	KDOL	375 (800), 425 (705), 500 (600)	PG	X	do	.....	Bureau of Harbors, City of Baltimore.
Federal.....	KDWW	do	PG	X	do	.....	Petroleum Navigation Co.
Do.....	WDOO	do	PG	X	do	.....	U. S. S. B.
Felix Taussig.....	WICR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	.....	Mystic S. S. Co.
Feltore.....	WQCU	do	PG	X	do	.....	Ore S. S. Corporation
Fernandez Hermanos.....	KZCY	396.8 (756), 500 (600)	PG	X	do	.....	Compania Maritima
F. Escano.....	KZES	400 (700), 500 (600)	PG	X	do	.....	La Naviera Filipina (Inc.)
F. F.	KGMU	5,523 (54.3), 5,555 (54), 8,330 (36.01), 11,050 (27.15), 11,110 (27)	P	X	do	.....	Harry C. Fisher
F. F. Hillman.....	KDKV	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	.....	Standard Oil Co. of California
F. H. Wickett.....	WROO	do	PG	X	do	.....	Pan American Petroleum & Transport Co.
Fire Boat No. 31.....	KPPA	1,596 (187.9)	P	X	do	.....	Boston fire department, city of Boston.
Fire Boat No. 44.....	KPFC	do	P	X	do	.....	do
Fire Boat No. 47.....	KFPD	do	P	X	do	.....	do
Firmore.....	WQCF	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	.....	Ore S. S. Corporation
Fisher.....	KFCX	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	do	.....	Portland Trawling Co.
Fish Hawk.....	WKIA	do	PG	X	do	.....	Consolidated Fisheries Co.
F. J. Luckenbach.....	WLCC	375 (800), 425 (705), 500 (600)	PG	X	do	Luckenbach S. S. Co.

Owner
R. M. C. A.
Do.

Do.

Do.

Do.

Owner.

Do.

Do.

R. C. A.

Do.

Owner.

R. M. C. A.

Do.

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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—
Flomar.....	KOP-L	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Calmar S. S. Corporation.....	R. M. C. A.
Florence D.....	KZAY	500 (600)	PG	X	Cadwalader Gibson Lumber Co.....	Owner.
Florence Luckenbach. Δ	WLCL	375 (800), 425 (705), 454 (660), 500 (600)	PG	X	Luckenbach S. S. Co.....	R. M. C. A.
Floridian.....	KJHI	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Strachan's Southern S. S. Co.....	Do.
Flow.....	WQDB	do	PG	X	Bay State Fishing Co.....	Do.
Flour Spar.....	KIQX	do	PG	X	South Atlantic S. S. Co.....	Do.
Foam.....	KFEU	do	PG	X	Bay State Fishing Co.....	Do.
Fontana.....	KFTW	375 (800), 410 (730), 425 (705)	PG	X	Progress S. S. Co.....	Owner.
Forbes Hauptman.....	KEJF	375 (800), 425 (705), 500 (600)	PG	X	Chas. R. McCormick Lumber Co. (Inc.).....	R. M. C. A.
Fordham.....	WMDR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Trawler Fordham (Inc.).....	Do.
Forest King.....	KDBH	375 (800), 425 (705), 500 (600)	PG	X	Traders Transportation Co.....	Owner.
Fort Armstrong.....	KUKF	375 (800), 425 (705), 454 (660), 500 (600)	PG	X	Charles Nelson Co. (Inc.).....	R. M. C. A.
Fortuna.....	KDWU	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Richmond Talbot.....	Owner.
Do.....		(53.42), 6,590 (45.62), 6,005 (45.42), 8,240 (36.19), 8,330 (36.01), 11,050 (27.15), 11,110 (27), 11,230 (26.71), 13,240 (22.65), 16,580 (18.094), 16,650 (18.007), 16,860 (17.794), 22,100 (13.575), 22,220 (13.501), 22,460 (13.357)	PG	X	Rio y Olabarrrieta.....	Do.
Foss No. 21.....	KZDV	500 (600)	PG	X	Foss Launch & Tug Co. (Inc.).....	Do.
Four Winds.....	KGAX	375 (800), 425 (705), 500 (600)	PG	X	Stanley G. Harris.....	Do.
F. P. C. No. 2.....	KGOF	375 (800), 425 (705), 500 (600), 5,525 (54.3), 5,555 (54)	PG	X	Fishermen's package Corporation.....	Do.
F. Q. Barstow..... Δ	WQDN	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.....	R. M. C. A.
Frances Weems.....	WODM	(27.15), 13,240 (22.65), 16,580 (18.094), 16,860 (17.794), 5,555 (54), 16,575 (18.100)	PG	X	Baltimore & Carolina Line (Inc.).....	Owner.
Francis E. Powell.....	KFTG	375 (800), 425 (705), 500 (600)	PG	X	Atlantic Refining Co.....	R. M. C. A.
Frank Billings..... Δ	KDXM	do	PG	X	Pioneer S. S. Co.....	Owner.
Frank G. Drum..... Δ	KDQZ	375 (800), 410 (730), 425 (705)	PG	X	Associated Oil Co. (Inc.).....	M. B. T. Co.
Frank H. Buck..... Δ	WQCQ	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	American S. S. Co.....	Owner.
Frank H. Goodyear.....	KPEG	375 (800), 410 (730), 425 (705)	PG	X	Texas Co.....	Do.
Franklin..... Δ	KDPK	375 (800), 425 (705), 500 (600)	PG	X	Pan American Petroleum & Trans- port Co.....	R. M. C. A.
Franklin K. Lane..... Δ	KDLH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	W. J. Gray, Jr.....	Do.
Frank Lynch.....	KLIU	375 (800), 425 (705), 500 (600)	PG	X	Becker S. S. Co.....	Owner.
Frank Sether.....	KFTS	375 (800), 410 (730), 425 (705)	PG	X	Pan American Petroleum & Trans- port Co.....	R. M. C. A.
Frederic Ewing..... Δ	WPCD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Nakat Packing Corporation.....	Owner.
Frederick C.....	WRRR	2,320 (120.3)	P	X	Pan American Petroleum & Trans- port Co.....	R. M. C. A.
Frederic R. Kellogg..... Δ	WFCE	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Franklin S. S. Corporation.....	Owner.
Fred G. Hartwell..... Δ	KFKJ	375 (800), 410 (730), 425 (705)	PG	X		

RADIO STATIONS OF THE UNITED STATES

Fred W. Green.....	W.N.A.I.	375 (800), 394 (760), 410 (730), 425 (705), 5,525 (54.3), 5,555 (54), 5,615 (53.42), 8,330 (36.01).		John J. Roen.....	X	MacInac Radio Serv-ice. R. M. C. A. Do. Do. Owner. Do. Do. R. M. C. A.
Fred W. Weller.....	W.C.O.	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).		Standard Shipping Co.....	X	Standard Shipping Co.....
Freeman.....	W.B.C.I.	375 (800), 410 (730), 425 (705), 451 (660), 468 (640), 500 (600).		Peachants S. S. Co.....	X	Peachants S. S. Co.....
Freepost Sulphur No. 5.....	K.U.M.P.	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).		Freepost Sulphur Transportation Co.....	X	Freepost Sulphur Transportation Co.....
Frontenac.....	K.F.L.	143 (2,100), 157 (1,910), 375 (800), 410 (730), 425 (705).		Cleveland Cliffs S. Co.....	X	Cleveland Cliffs S. Co.....
Gadfly II.....	W.Q.D.O.	375 (800), 425 (705), 500 (600), 5,525 (54.3), 5,555 (54), 8,290 (36.19), 11,050 (27.15), 11,110 (27).		Frederick H. Rawson.....	X	Frederick H. Rawson.....
Gale.....	W.T.B.	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).		Bay State Fishing Co.....	X	Bay State Fishing Co.....
Galveston.....	K.D.Q.E.	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).		U. S. S. B.....	X, N	U. S. S. B.....
Gargoyle.....	K.D.P.E.	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).		Vacuum Oil Co.....	X	Vacuum Oil Co.....
Garnet, Hullings.....	W.H.D.	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).		Continental S. S. Co.....	X	Continental S. S. Co.....
Gar. sr.....	W.H.D.	2,590 (113.8).		Gar Wood.....	X	Gar Wood.....
Gateway City.....	K.D.F.I.	375 (800), 425 (705), 500 (600).		U. S. S. B.....	X	U. S. S. B.....
G. A. Tomlinson.....	K.D.X.I.	375 (800), 410 (730), 425 (705).		Pioneer S. S. Co.....	X	Pioneer S. S. Co.....
Gavins.....	K.G.O.E.	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).		William F. Mitchell.....	X	William F. Mitchell.....
Gemma.....	W.T.V.	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).		Trawler Gemma (Inc.).....	X	Trawler Gemma (Inc.).....
Gene Crawley.....	W.H.C.W.	375 (800), 410 (730), 425 (705).		Sinclair Navigation Co.....	X	Sinclair Navigation Co.....
General.....	W.O.D.D.	375 (800), 400 (750), 425 (705).		W. W. Durocher.....	X	W. W. Durocher.....
General Ashburn.....	W.F.B.L.	274 (1,045), 375 (800), 500 (600).		Inland Waterways Corporation.....	X	Inland Waterways Corporation.....
General Markham.....	W.F.D.P.	375 (800), 425 (705), 500 (600).		Continental S. S. Co.....	X	Continental S. S. Co.....
General M. H. Sherman.....	K.D.F.T.	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600).		Los Angeles S. S. Co.....	X	Los Angeles S. S. Co.....
General W. C. Gorges.....	W.Q.C.Z.	375 (800), 425 (705), 500 (600).		Libby, McNeill & Libby.....	N, X	Libby, McNeill & Libby.....
Geacviere Lykes.....	K.F.T.P.	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).		Lykes Bros. S. S. Co.....	X	Lykes Bros. S. S. Co.....
Georgetown, Wexms.....	W.O.D.P.	375 (800), 425 (705), 500 (600).		Baltimore & Carolina Line (Inc.).....	X	Baltimore & Carolina Line (Inc.).....
George F. Rand.....	K.F.C.T.	375 (800), 410 (730), 425 (705).		American S. S. Co.....	X	American S. S. Co.....
George C. Greer.....	K.O.O.I.	375 (800), 425 (705), 500 (600).		Magnolia Petroleum Co.....	X	Magnolia Petroleum Co.....
George G. Henry.....	W.P.C.F.	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).		Pan American Petroleum & Trans- port Co.....	X	Pan American Petroleum & Trans- port Co.....
George H. Ingalls.....	K.F.T.O.	375 (800), 410 (730), 425 (705).		Eastern S. S. Corporation.....	X	Eastern S. S. Corporation.....
Geo. H. Jones.....	K.F.J.U.	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).		Standard Shipping Co.....	X	Standard Shipping Co.....
George L. Olson.....	K.F.G.U.	375 (800), 425 (705), 500 (600).		Oliver J. Olson & Co.....	X	Oliver J. Olson & Co.....
George Peirce.....	K.D.L.T.	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600).		U. S. S. B.....	X	U. S. S. B.....
Georgene.....	W.O.D.Y.	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).		J. W. Worker.....	Do.	J. W. Worker.....
Georgetown.....	W.T.R.H.	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600).		Trawler Georgetown (Inc.).....	Do.	Trawler Georgetown (Inc.).....
George Washington.....	K.D.C.L.	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600).		United States Lines.....	Do.	United States Lines.....
Do.....	W.E.C.I.	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600).		Eastern S. S. Lines.....	Do.	Eastern S. S. Lines.....
George W. Barnes.....	K.M.U.I.	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).		Pan American Petroleum & Transport Co.....	Do.	Pan American Petroleum & Transport Co.....
George W. Mead.....	W.J.D.D.	375 (800), 394 (760), 410 (730), 425 (705).		Newaygo Tug Line.....	X	Newaygo Tug Line.....
Georgian.....	K.J.U.A.	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).		Strachan's Southern S. S. Co.....	X	Strachan's Southern S. S. Co.....
Do.....	W.A.C.Y.	375 (800), 425 (705), 500 (600).		Williams S. S. Corporation.....	X	Williams S. S. Corporation.....
Gertrude Kellogg.....	K.D.E.V.	375 (800), 425 (705), 500 (600).		Spencer Kellogg & Sons (Inc.).....	Do.	Spencer Kellogg & Sons (Inc.).....
Golden Forest.....	K.X.E.X.	125 (2,400), 143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600).		Oceanic & Oriental Navigation Co.....	X	Oceanic & Oriental Navigation Co.....
Golden Kauri.....	K.E.L.K.	375 (800), 425 (705), 500 (600).		do.....	X	do.....
G. J. Grammar.....	K.F.S.A.I.	375 (800), 410 (730), 425 (705).		Grammar S. S. Co.....	Do.	Grammar S. S. Co.....
Glacier.....	K.F.T.R.	375 (800), 425 (705), 500 (600).		Northern Fisheries (Inc.).....	N	Northern Fisheries (Inc.).....

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—
Glenpool.....	WQCP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.
Glen White.....	KSELE	375 (800), 425 (705), 500 (600)	PG	X	Mystic S. S. Co.	Do.
Gloucester.....	WMUCT	do.	PG	X	Merchants & Miners Transpn. Co.	Do.
Glymont.....	KEXZ	do.	PG	N	Charter's N. Sea Co.	Do.
G. N. Wilson.....	KDVS	375 (800), 410 (730), 425 (705)	PG	X	American S. S. Co.	Owner.
Golden Bear.....	KEXX	375 (800), 425 (705), 500 (600)	PG	X	Oceanic & Oriental Navigation 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	143 (2,100), 151 (1,985), 157 (1,910), 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 Harvest.....	KUMM	do.	PG	X	do.	Do.
Golden Hind.....	KDSX	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Golden Horn.....	KOKP	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Golden Mountain.....	KUBK	do.	PG	X	do.	Do.
Golden Peak.....	KOTD	do.	PG	X	do.	Do.
Golden River.....	KEPD	do.	PG	X	do.	Do.
Golden Rod.....	KIKX	do.	PG	X	do.	Do.
Golden Star.....	KISG	do.	PG	X	do.	Do.
Golden State.....	KDFW	143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
Golden Sun.....	KDUK	143 (2,100), 151 (1,985), 159 (1,885), 375 (800), 425 (705), 500 (600)	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.
Golah.....	KFDI	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Wood Towing Corporation.	Do.
Goodtime.....	WTBP	375 (800), 425 (705), 500 (600)	PG	X	Cary Davis Tug & Barge Co.	R. M. C. A.
Goodwill.....	WTGU	375 (800), 410 (730), 425 (705)	PG	X	Cleveland & Buffalo Transit Co.	Owner.
Gordona.....	KFGI	375 (800), 400 (750), 468 (640), 500 (600)	PG	X	do.	Do.
Gorgona.....	KDNZ	375 (800), 425 (705), 500 (600)	PG	X	Keith Spalding.	R. M. C. A.
Governor Cobb.....	WHCX	do.	PG	N	Panama Canal.	Owner.
Governor Dingely.....	WECE	375 (800), 400 (750), 425 (705), 500 (600)	PG	N	Femular & Occidental S. S. Co.	R. M. C. A.
Governor John Lind.....	WRED	375 (800), 425 (705), 500 (600)	PG	N	Eastern S. S. Lines (Inc.)	Do.
Graham C. Woodruff.....	WEDG	375 (800), 394 (760), 410 (730), 425 (705)	PG	N	Baltimore Insular Line.	R. C. A.
Grand Island.....	KFLA	375 (800), 410 (730), 425 (705)	PG	X	Nicholson Universal S. S. Co.	Owner.
Grays Harbor.....	KLJL	375 (800), 425 (705), 500 (600)	PG	X	Cleveland Cliffs S. S. Co.	Do.
Greater Buffalo.....	WSBH	143 (2,100), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	PG	X	Tacoma Oriental S. S. Co.	Do.
Greater Detroit.....	WSBI	do.	PG	X	Detroit & Cleveland Navigation Co.	R. C. A.
Grecian.....	WMICU	375 (800), 410 (730), 425 (705), 500 (600)	PG	N	do.	Do.
Greylock.....	KDTV	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Merchants & Miners Transpn. Co.	R. M. C. A.
			PG	X	Greylock S. S. Corporation.	Do.

RADIO STATIONS OF THE UNITED STATES

Call Letters	Frequency	Power	Class	Owner	City	State
Guardian	375 (800), 425 (705), 500 (600)	PG	X	All America Cable Co.	San Francisco	Calif.
Guatemala	375 (800), 400 (750), 425 (705), 468 (610), 500 (600), 5,255 (54.3), 8,200 (36.15), 8,450 (35.5), 11,050 (27.15), 11,230 (28.71), 13,240 (22.66), 16,660 (18.007), 16,580 (18.094)	PG	N	Grace S. Co. (Inc.)	San Francisco	Calif.
Guayaquil	375 (800), 425 (705), 500 (600)	PG	X	Panama R. R. Co.	Guayaquil	Ecuador
Guinevere	375 (800), 400 (750), 500 (600)	P	X	Edgar Palmer	San Francisco	Calif.
Gulfbird	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), 469 (610), 500 (600)	PG	X	Gulf Refining Co.	San Francisco	Calif.
Gulfbreze	375 (800), 400 (750), 425 (705), 468 (610), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulfcoast	375 (800), 400 (750), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulfcrest	375 (800), 400 (750), 425 (705), 468 (610), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulfgem	do	PG	X	do.	San Francisco	Calif.
Gulfhawk	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (610), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulfsing	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulfland	375 (800), 400 (750), 425 (705), 418 (610), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulflight	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulfmaid	do	PG	X	do.	San Francisco	Calif.
Gulf of Mexico	143 (2,100), 151 (1,985), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulf of Venezuela	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulfoil	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulfocean	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulfpoint	do	PG	X	do.	San Francisco	Calif.
Gulfport	274 (1,005), 375 (800), 500 (600)	P	X	Inland Waterways Corporation	San Francisco	Calif.
Gulpride	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 (610), 500 (600)	PG	X	Gulf Refining Co.	San Francisco	Calif.
Gulfrinnee	375 (800), 400 (750), 425 (705), 468 (610), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulfrucean	375 (800), 400 (750), 425 (705), 468 (610), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulf Refining Co. (general call for all vessels)	375 (800), 400 (750), 425 (705), 468 (610), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulstair	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulstair	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulstream	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulstream	do	PG	X	do.	San Francisco	Calif.
Gulvare	375 (800), 400 (750), 415 (705), 468 (610), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulvay	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (610), 500 (600)	PG	X	do.	San Francisco	Calif.
Gulwacp	375 (800), 425 (705), 500 (600)	PG	X	do.	San Francisco	Calif.
Hadmo	do	PG	X	Cities Service Transportation Co.	San Francisco	Calif.
Hagan	375 (800), 400 (750), 425 (705), 468 (610), 500 (600)	PG	X	Hagan S. Co.	San Francisco	Calif.
Hagood	375 (800), 400 (750), 425 (705), 468 (610), 500 (600)	PG	X	Cities Service Transportation Co.	San Francisco	Calif.
Hahira	375 (800), 400 (750), 425 (705), 468 (610), 500 (600)	PG	X	Atlantic Refining Co.	San Francisco	Calif.
Haida	375 (800), 425 (705), 500 (600)	PG	X	Max C. Fleischmann	San Francisco	Calif.
Haiti	375 (800), 400 (750), 425 (705), 468 (610), 500 (600)	PG	X	Cities Service Transportation Co.	San Francisco	Calif.
Haleyton	375 (800), 425 (705), 500 (600)	P	X	Ocean Dominion S. S. Corporation	San Francisco	Calif.
Halekaka	6,525 (54.3), 8,450 (35.5)	P	X	E. V. Ridout Co.	San Francisco	Calif.
Halgoman	143 (2,100), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 500 (600)	P	X	Inter-Island Steam Navigation Co.	San Francisco	Calif.
Halo	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Houston Well	San Francisco	Calif.
Halo	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Cities Service Transportation Co.	San Francisco	Calif.

M. R. T. Co.
R. M. C. A.

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

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Halsey	KDDR	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	Malston Co.	R. M. C. A.
Hamilton	WECK	375 (800), 400 (730), 425 (705), 468 (640), 500 (600)	PG	X	Eastern S. S. Lines	Do.
Hamilton F. McCormick	KESD	375 (800), 425 (705), 500 (600)	PG	X	Chas. R. McCormick Lumber Co.	Owner.
Hampden	WXUI	do.	PG	X	Coastwise Transportation Co.	R. M. C. A.
Hanley	KDIF	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 400 (750), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Hanover	KOJK	375 (800), 425 (705), 500 (600)	PG	X	I. C. Copley	Do.
Happy Days	WMBN	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	Harbor Tug & Barge Co.	Owner.
Harbor	WIDB	2,596 (115.50)	P	X	Henry B. Lloyd	R. M. C. A.
Harbor Biaou	KFZE	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.	Do.
Harold Walker	WPCG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	H. Leslie Glass	Do.
Harriet	WODI	375 (800), 410 (730), 425 (705)	PG	X	Poehontas S. S. Co.	R. M. C. A.
Harry Bowen	WZUA	375 (800), 425 (705), 500 (600)	PG	X	Interlake S. S. Co.	R. C. A.
Harry Couby	WPBF	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	PG	X	do.	R. C. A.
Harry Farnum	WHCU	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sinclair Navigation Co.	R. M. C. A.
Harry F. Sinclair, Jr.	KGOK	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do.	Do.
Harry Luckenbach	KIGS	375 (800), 410 (730), 425 (705)	PG	X	Luckenbach S. S. Co.	Do.
Harry W. Croft	WEDD	do.	PG	X	Interlake S. S. Co.	R. C. A.
Harry Yates	KDUB	375 (800), 425 (705), 500 (600)	PG	X	American S. S. Co.	Owner.
Hartweison	WJDV	375 (800), 425 (705), 500 (600)	PG	X	Hartweison S. S. Co.	R. M. C. A.
Harvard	WSCR	do.	PG	X	Whitman, Ward & Lee Co.	R. M. C. A.
Do.	WTBY	375 (800), 400 (730), 425 (705), 500 (600), 468 (640)	PG	X	do.	R. C. A.
Harvester	KDHC	375 (800), 425 (705), 500 (600)	PG	X	Los Angeles S. S. Co.	R. M. C. A.
Harvey H. Brown	WEDA	375 (800), 410 (730), 425 (705)	PG	X	Texas Co.	Do.
Hastings	KDDL	375 (800), 425 (705), 500 (600)	PG	X	Interlake S. S. Co.	R. C. A.
Hatters	WDDF	do.	PG	X	U. S. S. B.	Do.
Havana	WQBI	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	do.	R. M. C. A.
Hawallah	WACG	do.	PG	X	Atlantic Gulf & West Indies S. S. Lines	Do.
Hawaiian Standard	WODC	2,920 (129.3)	PG	X	American-Hawaiian S. S. Co.	Owner.
Hazel Robb	WQBL	375 (800), 425 (705), 500 (600)	PG	X	Standard Oil Co. of California	R. M. C. A.
H. C. Cadmus	WFCW	375 (800), 400 (750), 425 (705), 500 (600)	P	X	Nakat Packing Corporation	Owner.
H. C. Folger	WBAL	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Tugboat H. C. Cadmus (Inc.)	R. M. C. A.
Hedron	KIDF	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	Atlantic Refining Co.	Do.
Hefron	WQBI	375 (800), 425 (705), 500 (600)	PG	X	Hefron S. S. Co.	Do.
Helen	WHKC	do.	PG	X	A. H. Bull S. S. Co.	Do.
Helena	WHDX	8,220 (36.45), 8,570 (35.01)	P	X	John J. Matheson	Owner.
Helen Whittier	KJAO	375 (800), 425 (705), 500 (600)	PG	X	Los Angeles S. S. Co.	R. M. C. A.

RADIO STATIONS OF THE UNITED STATES

Henry D. Whitton.....	KDRM	do	143 (2,100), 157 (1,910), 375 (800), 394 (700), 410 (730), 425 (705)	Union Sulphur Co.....	Owner.
Henry Ford II.....	KFTD	PG	172 (2,100), 151 (1,985), 153 (1,940), 155 (1,935), 157 (1,910), 375 (800)	Ford Motor Co.....	R. C. A.
Henry G. Dalton.....	KGAE	PG	304 (700), 410 (730), 425 (705)	Interlake S. S. Co.....	Do.
Henry M. Flagler.....	WGCK	PG	375 (800), 425 (705), 500 (600)	Florida East Coast Car Ferry Co.....	R. M. C. A.
Henry P. Werner.....	KFCN	PG	375 (800), 425 (705), 500 (600)	Eastern S. S. Co.....	Owner.
Henry R. Mallory.....	WBCF	PG	375 (800), 425 (705), 500 (600)	Mallory S. S. Co.....	R. M. C. A.
Henry S. Grove.....	KDLN	PG	2,100, 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600)	Virginia Towing Corporation.....	Do.
Henry W. Card.....	KFHH	PG	375 (800), 425 (705), 500 (600)	Cleveland Cliffs S. S. Co.....	Do.
Herbert F. Black.....	KGOI	PG	143 (2,100), 160 (1,875), 375 (800), 410 (730), 425 (705)	Pan American Petroleum & Transport Co.....	Do.
Herbert G. Wylie.....	WFBX	PG	375 (800), 400 (730), 425 (705), 468 (640), 500 (600)	Atlantic Refining Co.....	Do.
Herbert L. Pratt.....	WFCX	PG	375 (800), 400 (750), 425 (705), 500 (600)	United Fruit Steamship Corporation.....	T. R. T. Co.
Heredia.....	KDAH	PG	143 (2,100), 131 (1,985), 153 (1,980), 160 (1,875), 375 (800), 425 (705), 454 (660), 468 (640), 500 (600), 525 (54.3), 555 (54), 840 (35.5), 11,050 (27.15), 11,250 (26.71)	Union Sulphur Co.....	Owner.
Herman Frasch.....	KDLW	PG	375 (800), 425 (705), 500 (600)	do.....	Do.
Herman F. Whitton.....	KONL	PG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	William J. Magglio.....	R. M. C. A.
Hermosa.....	KGMA	PG	375 (800), 425 (705), 468 (640), 500 (600)	Portland Trawling Co.....	Do.
Heron.....	KODF	PG	375 (800), 425 (705), 468 (640), 500 (600)	Pacific S. S. Co.....	M. R. T. Co.
H. F. Alexander.....	WCGO	PG	143 (2,100), 157 (1,935), 157 (1,910), 375 (800), 425 (705), 500 (600)	Standard Shipping Co.....	R. M. C. A.
H. H. Rogers.....	WOCG	PG	375 (800), 404 (730), 425 (705), 468 (640), 500 (600)	Edward H. Manville.....	Do.
Hi-Esmaro.....	WJDY	PG	143 (2,100), 145 (1,860), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	U. S. S. B.....	Do.
Highe.....	KUBY	PG	375 (800), 425 (705), 500 (600)	The Caddo Co.....	M. R. T. Co.
Hilka.....	KGCK	PG	375 (800), 425 (705), 500 (600)	A. H. Bull S. S. Co.....	R. M. C. A.
Hilton.....	WOCR	PG	375 (800), 425 (705), 500 (600)	Standard Shipping Co.....	Do.
H. M. Flagler.....	WOCR	PG	143 (2,100), 131 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (730), 425 (705), 468 (640), 500 (600)	do.....	Do.
H. M. Storey.....	KDYY	PG	375 (800), 400 (730), 425 (705), 468 (640), 500 (600)	Pacific Argentine Brazil Line (Inac.).....	Do.
Hollywood.....	KDGS	PG	375 (800), 425 (705), 500 (600)	Atlantic & Pacific Fish Co.....	Do.
Holy Cross.....	WTBI	PG	375 (800), 400 (730), 425 (705), 468 (640), 500 (600)	Merritt, Chapman & Scott Corporation.....	Do.
Homer.....	KUMG	PG	375 (800), 425 (705), 500 (600)	do.....	Do.
Horace Luckenbach.....	KULK	PG	do	Luckenbach S. S. Co.....	Do.
Horace X. Baxter.....	WDDG	PG	175 (1,715), 105 (1,510), 215 (1,305), 245 (1,225), 275 (1,090), 355 (845), 375 (800), 425 (705), 445 (675), 500 (600), 545 (550)	Horace X. Baxter S. S. Co.....	Owner.
Houston.....	KGQY	PG	do	Newport News Shipbuilding & Drydock Co.....	Do.
Howard.....	WMCV	PG	375 (800), 425 (705), 500 (600)	Merchants & Miners Transpn. Co.....	R. M. C. A.
Hoxbar.....	KJQJ	PG	375 (800), 425 (705), 500 (600)	Malston Co.....	Do.
Hoxie.....	KEMK	PG	375 (800), 425 (705), 500 (600)	U. S. S. B.....	Do.
H. T. Harper.....	KDVM	PG	375 (800), 425 (705), 500 (600)	Standard Oil Co. of California.....	Do.
Hualala.....	WJDT	PG	375 (800), 400 (730), 425 (705), 468 (640), 500 (600)	Inter-Island Steam Navigation Co.....	Do.
Hugoton.....	KLQR	PG	do	Malston Co.....	Do.
Hugoton.....	KLVQ	PG	375 (800), 425 (705), 500 (600)	American Trust Co. (Inc.).....	Do.
Hulver.....	KIGD	PG	do	Tennessee Coal, Iron & R. R. Co.....	Owner.
Humboldt.....	KIGD	PG	375 (800), 410 (730), 425 (705), 500 (600)	Merrill & Ring Lumber Co.....	Do.
Humboldt.....	WBDZ	PG	375 (800), 425 (705), 500 (600)	Los Angeles-San Francisco Navigation Co.....	Do.
Humrick.....	KIFN	PG	143 (2,100), 157 (1,910), 375 (800), 410 (730), 425 (705), 500 (600), 2,446 (122.05)	Ford Motor Co.....	R. C. A.
Humuila.....	WNDD	PG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	Inter-Island Steam Navigation Co.....	R. M. C. A.

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

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Huron	WADQ	375 (800), 425 (705), 500 (600)	PG	N X	Clyde S. S. Co.	R. M. C. A.
Do.	WBCC	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 384 (760), 410 (730), 425 (705)	P		Wyandotte Transportation Co.	Owner.
Hussar	KEZV	375 (800), 425 (705), 500 (600)	PG	X X	E. F. Hutton.	R. M. C. A.
H. W. Baxter.	WMAE	40	PG	N	Horace X. Baxter S. S. Co.	Owner.
Hyades	WCDY	40	PG	X	Red Salmon Canning Co.	Do.
Hybert	KDCY	40	PG	X	U. S. S. B.	
L. C. White.	KDDB	375 (800), 400 (750), 425 (705), 408 (640), 500 (600)	PG	X X	Pan American Petroleum & Transport Co. (Inc.)	R. M. C. A.
Idalin.	KFVM	500 (600), 3,435 (87.3), 4,148 (72.3), 6,275 (47.81), 12,820 (23.4)	P	X X	Fainless Fisher.	Owner.
Ide Mae	WJWJ	2,920 (123.3)	P	X	Farwest Fisheries (Inc.)	Do.
Idler	WHDW	5,125 (54.3), 5,555 (54)	P	X	A. R. Pieper.	Do.
L. J. Merritt.	KOVZ	375 (800), 425 (705), 500 (600)	PG	X X	Merritt, Chapman & Scott Corporation.	R. M. C. A.
Illinois	KDSZ	143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600)	PG	X	Texas Co.	Do.
Do.	KFMC	375 (800), 425 (705), 500 (600)	P	X X	Inland Waterways Co.	Owner.
Do.	KUOM	375 (800), 425 (705), 500 (600)	PG	X X	States S. S. Co.	Do.
Do.	WPOY	375 (800), 410 (730), 425 (705)	PG	N, X	Goodrich Transit Co.	R. C. A.
Ilyria.	WQBU	143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 375 (800), 408 (730), 425 (705), 468 (640), 500 (600)	PG	X	Goodrich Transit Co.	R. M. C. A.
Imlay.	KTVZ	143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 375 (800), 408 (730), 425 (705), 468 (640), 500 (600)	PG	X X	Malston Co.	Do.
Independence	WILU	375 (800), 425 (705), 500 (600)	PG	X X	U. S. S. B.	Do.
Independence Hall	KDGG	375 (800), 425 (705), 500 (600)	PG	X X	do.	Do.
India Arrow.	KDHP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X X	Standard Transportation Co.	Do.
Indiana	WPEZ	375 (800), 410 (730), 425 (705)	PG	X X	Goodrich Transit Co.	Do.
Infanta.	KLOZ	375 (800), 410 (730), 425 (705)	PG	X X	John Barrymore.	R. C. A.
Intero.	KLOU	375 (800), 425 (705), 500 (600)	PG	X X	U. S. S. B.	R. M. C. A.
Intercity Radio Telegraph Co. (general call for all vessels)	KLVY	375 (800), 425 (705), 500 (600)	PG	X X	U. S. S. B.	Do.
Intercity Radio Telegraph Co. (general call for all vessels)	KDZZ	375 (800), 425 (705), 500 (600)	PG	X X	U. S. S. B.	Do.
Interlake S. S. Co. (general call for all vessels).	WPAA	375 (800), 425 (705), 500 (600)			Interlake S. S. Co.	
International	KITQ	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	International Packing Co.	Do.
Intrepid	KDHI	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Transportation Products Co.	Do.
Invincible.	WCHI	143 (2,100), 151 (1,985), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Iolanda.	WOBP	143 (2,100), 151 (1,985), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	N	Edith Bishop Taylor.	Marconi International Marine Communication Co.
Iowa.	KFLT	274 (1,095), 385 (800), 500 (600)	P	X	Inland Waterways Corporation.	Owner.

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. E. O'Neil	WFCZ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Atlantic Refining Co.	R. C. A.
J. E. Savage	KFNU	375 (800), 410 (730), 425 (705)	PG	X	Morrow S. S. Co.	R. M. C. A.
Jezebel	KGDT	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Thomas L. Chadbourne	R. M. C. A.
J. Fletcher Farrell	KDHR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sineair Navigation Co.	Do.
J. F. Schoellkopf, Jr.	KFCJ	375 (800), 410 (730), 425 (705)	PG	X	American S. S. Co.	Owner.
J. H. Sheldie	KKCI	143 (2,100), 157 (1,910), 375 (800), 410 (730), 425 (705)	PG	X	Cleveland Cliffs S. S. Co.	Do.
Junnie K.	KGXW	2,524 (118.85), 2,560 (117.18), 2,594 (115.65)	P	X	Wilmington Transportation Co.	Do.
J. J. Sullivan	WJDA	143 (2,100), 151 (1,985), 375 (800), 408 (640), 500 (600), 2,320 (129.3)	PG, P	N, X	Furwest Fisheries (Inc.)	Do.
J. L. Lutkenbach	KDXV	375 (800), 410 (730), 425 (705)	PG	X	Pioneer S. S. Co.	R. M. C. A.
J. L. Kessen	KEXQ	375 (800), 425 (705), 500 (600)	PG	X	Leuckenbach S. S. Co.	R. M. C. A.
J. M. Dantziger	KURJ	375 (800), 410 (730), 425 (705)	PG	X	Reiss S. S. Co.	Owner.
	WPCI	375 (800), 400 (730), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.	R. M. C. A.
J. N. Pew	KDTP	do.	PG	X	Sun Oil Co.	Do.
John A. Donakison	KFTT	375 (800), 410 (730), 425 (705)	PG	X	Becker S. S. Co.	Do.
John A. Kling	KFEL	143 (2,100), 151 (1,985), 375 (800), 394 (760), 410 (730), 425 (705)	PG	X	Rockport S. S. Co.	Owner.
John Anderson	WDDZ	375 (800), 410 (730), 425 (705)	PG	X	Morrow S. S. Co.	R. C. A.
John A. Topping	KFXG	do.	PG	X	Columbia S. S. Co.	Do.
John C. Kirkpatrick	KDQR	375 (800), 410 (730), 425 (705), 454 (660), 500 (500)	PG	X	Columbia S. S. Co.	Do.
John Cudahy	KFWG	375 (800), 425 (705), 500 (600)	PG	X	Andrew F. Mahony	M. R. T. Co.
John D. Archbold	KDUM	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	Hubble Towing Co.	Owner.
John F. Cushing	WGDV	375 (800), 394 (760), 410 (730), 425 (705)	PG	X	Standard Shipping Co.	R. M. C. A.
John G. Atkinson	KFSI	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	Great Lakes Dredge & Dock Co.	R. C. A.
John J. Boland	KDWB	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	Bradley Transportation Co.	Owner.
John Kendall	WJDP	1,596 (18.787)	P	X	American S. S. Co.	Do.
John McCartney Kennedy	WDDN	375 (800), 410 (730), 425 (705)	PG	X	City of Detroit	Do.
John N. Stewart	KGBI	2,524 (118.86), 2,550 (117.2), 2,584 (116.10)	P	X	Valley Camp S. S. Co.	R. C. A.
John P. Reiss	KCTM	375 (800), 410 (730), 425 (705)	PG	X	Wilmington Transportation Co.	Owner.
John Purroy Mitchell	WRBE	1,596 (18.797)	PG	X	Reiss S. S. Co.	Do.
John R. Williams	KGAU	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	City of New York	Do.
John S. Manuel	KDXL	375 (800), 410 (730), 425 (705)	PG	X	Great Lakes Dredge & Dock Co.	R. M. C. A.
John Stanton	KDXT	do.	PG	X	Pioneer S. S. Co.	Owner.
John W. Bearuman	KFMN	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	P	X	do.	Do.
John Worthington	KDMN	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Luron Transportation Co.	Do.
John W. Weeks	WRBN	374 (1,095)	PG	X	Standard Shipping Co.	R. M. C. A.
Jolie	KUVT	375 (800), 425 (705), 500 (600)	PG	X	Inland Waterways Corporation	Owner.
Jolo	KZDL	396.8 (756), 500 (600)	PG	X	U. S. B. Waterways Corporation	R. M. C. A.
Jomar	KCGT	375 (800), 425 (705), 500 (600)	PG	X	Compagnie Maritime	Owner.
Jomancy	KSEU	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	U. S. B. Waterways Corporation	R. M. C. A.
			PG	X	Pochonticas S. S. Co.	Do.

Call Letters	City	Freq.	Class.	Owner
KGNZ	Joseph Block	375 (800), 394 (760), 410 (730), 425 (705)	PG	Inland S. S. Co.
KDXU	Joseph G. Butler, Jr.	375 (800), 410 (730), 425 (705)	PG	Blauer S. S. Co.
KDZF	Joseph H. Frantz	do	PG	Columbia S. S. Co.
KFZS	Josephine H.	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	Uzal H. McCarter
KDMT	Joseph M. Cudaly	375 (800), 425 (705), 468 (640), 500 (600)	PG	Sinclair Navigation Co.
WCCJ	Joseph R. Purrott	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	Florida East Coast Car Ferry Co.
KDJV	Joseph Steep	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	Standard Shipping Co.
WLCD	Julia Lukenbach	375 (800), 425 (705), 500 (600)	PG	Lukenbach S. S. Co.
WADM	Junista	375 (800), 410 (730), 425 (705)	PG	Great Lakes Transit Corporation
WMCW	do	375 (800), 425 (705), 500 (600)	PG	Mercantile & Miners' Transp'n. Co.
WODB	Jupiter	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	Atlantic Marine (Inc.)
KVIU	J. W. Van Dyke	495 (705), 500 (600)	PG	Charlie J. Forstmann
WODT	K-22813	425 (705), 500 (600)	P	Wilbert Melville
KPUI	Kuimilua	375 (800), 425 (705), 500 (600), 5,525 (54.3), 5,555 (54), 8,290 (36.10)	PG	Alaska Packers Association
Kanuk	do	375 (800), 425 (705), 500 (600)	PG	American-Hawaiian S. S. Co.
WACI	Kansai	do	PG	J. E. Dauswell
WMDO	Karador	375 (800), 500 (600)	PG	Lukenbach S. S. Co.
WNRN	Katherine	375 (800), 425 (705), 500 (600), 2,320 (129.3), 2,428 (123.55)	PG	U. S. S. B.
WLCF	Katrina Lukenbach	375 (800), 425 (705), 500 (600)	PG	Richfield Oil Co.
KOPR	Kenry	do	PG	American-Hawaiian S. S. Co.
KDGY	Kelakee	do	PG	States S. S. Co.
WACI	Kentuckian	143 (2,100), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	Associated Oil Co. of California
KDQJ	Kentucky	375 (800), 404 (760), 410 (730), 425 (705)	PG	Cleveland, Canada Navigation Co.
KULF	Kerhokson	375 (800), 425 (705), 500 (600)	PG	Lukenbach S. S. Co.
KLVC	Kevance	375 (800), 425 (705), 500 (600)	PG	Phillipine Steam Navigation Co.
WQBY	Keweenaw	375 (800), 404 (760), 410 (730), 425 (705)	PG	Portland Trawling Co.
WJCF	K. J. Lukenbach	375 (800), 425 (705), 500 (600)	PG	Steamer Kishicoquillas Corporation
KZFN	Kimora	493 (885), 500 (600), 500 (600)	PG	Booth Fisheries Co.
KOOR	Kingfisher	375 (800), 425 (705), 468 (640), 500 (600)	PG	Lyman C. Wright
KJSC	Kishicoquillas	375 (800), 425 (705), 500 (600)	PG	U. S. Steel Products Co.
WIDR	Kiska	494 (885), 1,708 (175.64), 2,320 (129.3), 2,560 (117.2)	P	George F. Brilllett
WQDN	Kittiwake	495 (705), 500 (600), 498 (600)	PG	Standard Oil Co. of California
KLUD	Knoxville City	375 (800), 425 (705), 500 (600)	PG	Alaska Packers Association
WKDR	Koyon	5,524 (54.3), 5,555 (54), 11,050 (27.15), 11,110 (27)	PG	U. S. S. B.
KRDRE	K. R. Kingsbury	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 (600), 468 (640), 500 (600)	PG	Union Oil Co. of California
WQCP	Kriehak	375 (800), 425 (705), 500 (600)	PG	Bethlehem Transportation Co.
KLZX	Ladette	do	PG	U. S. S. B.
WFDM	La Brea	143 (2,100), 151 (1,985), 159 (1,885), 375 (800), 400 (750), 410 (730), 425 (705), 454 (600), 500 (600)	PG	Interlake S. S. Co.
WCDP	Lackawanna	375 (800), 410 (730), 425 (705)	PG	Ford Motor Co.
KJXK	Ladonia	375 (800), 425 (705), 500 (600)	PG	Newtex S. S. Corporation
KGAS	Laguna	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	PG	Mobile, Miami & Gulf S. S. Co.
KVAE	Lake Benbow	375 (800), 400 (750), 410 (730), 425 (705), 468 (640), 500 (600)	PG	Newtex S. S. Corporation
KOFM	Lake Ellipthorpe	do	PG	Ford Motor Co.
KOGR	Lake Fairport	2,524 (118.85)	P	Frank Paramino
KOGS	Lake Falconia	375 (800), 425 (705), 500 (600)	PG	do
KEXL	Lake Faleroti	do	P	do
KALC	Lake Frances	2,524 (118.85)	PG	do
KTAO	Lake Freeland	375 (800), 425 (705), 500 (600)	PG	do
WDFU	Lake Frugalby	2,524 (118.85)	P	do
KEGP	do	do	P	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—
Lake Gaither	KOJZ	375 (800), 425 (705), 500 (600)	PG	X	Newtex S. S. Corporation	R. M. C. A.
Lake Galewood	KOLX	325 (705), 500 (600)	PG	X	Robert C. Sudden	Do.
Lake Gliddings	KUCR	375 (800), 425 (705), 500 (600)	PG	X	Newtex S. S. Corporation	Do.
Lake Gilrege	KYBM	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 410 (730), 425 (705)	PG	X	Lake Gilrege S. S. Co.	R. C. A.
Lake Gorin	KYRIE	2,149 (122.35)	P	X	Ford Motor Co.	Owner
Lake Hemlock	KLOBE	375 (800), 425 (705), 500 (600)	PG	X	Newtex S. S. Corporation	R. M. C. A.
Lake Inglenook	KOBT	2,153 (122.35)	P	X	Ford Motor Co.	Owner
Lake Kytite	WCOU	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Stanley Hiller (Inc.)	M. R. T. Co.
Lake Miraflores	KDNR	143 (2,100), 153 (1,960), 157 (1,910), 375 (800), 394 (700), 400 (750), 410 (730), 425 (705), 454 (660), 500 (600), 3,523 (54.3), 5,555 (54), 11,680 (27.15), 16,575 (18.049)	PG	X	Ford Motor Co.	R. C. A.
Lake Ormoo	KVUA	375 (800), 425 (705), 500 (600)	PG	X		
Lake Treba	KOSQ	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Lake Treba Transportation Co.	R. M. C. A.
Lakina	WCCU	do.	PG	N	Alaska S. S. Co.	Owner
La Merred	KGBH	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Chatham River Smoked Fish Co.	Do.
Lamora	KGQI	375 (800), 425 (705), 500 (600)	PG	X	Hunter L. Gray Corporation	R. M. C. A.
Lanester	KQUE	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	P	X	Lanester S. S. Corporation	Owner
Lankai	WJDQ	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Hawaiian Sea Products Co.	M. R. T. Co.
Lansing	WFDA	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875)	PG	X	California Sea Products Co.	M. R. T. Co.
La Perla	KDCK	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	United Fruit S. S. Corporation	T. R. T. Co.
La Placencia	KDPX	375 (800), 400 (750), 425 (705), 454 (660), 500 (600)	PG	X	Union Oil Co. of California	R. M. C. A.
La Pursima	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), 468 (640), 500 (600)	PG	X	Atlantic & Caribbean Steam Navigation Co.	R. M. C. A.
Larry Dolney	WOBK	do.	PG	X		Do.
Lassen	KFKG	375 (800), 425 (705), 500 (600)	PG	X	Peroleum Securities Corporation	Owner
La Touche	WCCU	do.	PG	X	E. K. Wood Lumber Co.	M. R. T. Co.
Lavada	KDFV	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Alaska S. S. Co.	M. R. T. Co.
Lebaun	WFDS	375 (800), 410 (730), 425 (705)	PG	X	Bethlehem Transportation Co.	Owner
Lebec	KDTN	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG	X	Standard Transportation Co.	R. M. C. A.
L. E. Block	KGFE	375 (800), 394 (760), 410 (730), 425 (705)	PG	X	Island S. S. Co.	Owner
Lebore	KFMP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Ora S. S. Corporation	R. M. C. A.
Lehigh	KINM	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Do.	WCDN	375 (800), 410 (730), 425 (705)	PG	X	Refinchem Transportation Co.	Owner
Lemuel Burrows	WJCS	2,320 (129.3)	P	X	Mystic S. S. Co.	R. M. C. A.
Lena Luckenbach	KDED	do.	PG	X	Luckenbach S. S. Co.	Do.
Leonine	WIDL	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Alaska Pacific Salmon Corporation	Owner
Levant Arrow	KDVD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transportation Co.	R. M. C. A.

Call Letters	Lifeboat No.	Frequency	Power	Class	Location	Owner	Remarks
Leviathan	31	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 500 (600), 3,127.5 (95.9), 4,177.5 (71.8), 5,525 (54.3), 5,555 (54), 8,200 (36.19), 8,450 (35.50), 8,830 (33.98), 11,050 (27.15), 11,110 (27), 11,230 (26.71), 13,260 (22.62), 17,640 (17.07), 500 (600)	PG	N	United States Lines (Inc.)	Do.	
Leviathan	32	375 (800), 425 (705), 500 (600)	P	do	Do.		
Leviathan	32	375 (800), 425 (705), 500 (600)	P	do	Do.		
Lewis K. Thurlow		375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Marble S. S. Co.	Do.	
Lewis Luckenbach		375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Luckenbach S. S. Co.	Do.	
Lexington		375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Colonial Navigation Co.	Do.	
Lewiston		375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Colonial Navigation Co.	Do.	
Libby Maine		143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Libby, McNeill & Libby	Ownder	
Liberator		375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.	
Liberty		375 (800), 425 (705), 500 (600)	PG	X	do	Do	
Liberty Bell		375 (800), 400 (750), 425 (705), 468 (640)	PG	X	South Atlantic S. S. Co.	R. M. C. A.	
Liberty Glo.		375 (800), 425 (705), 500 (600)	PG	X	Standard Transportation Co.	Do.	
Libre		274 (1,036), 375 (800), 500 (600)	P	X	Inland Waterways Corporation.	Ownder	
Liduc, Cal. Robert G. Chidaur.		375 (800), 425 (705), 500 (600)	PG	X	Texas Co.	R. M. C. A.	
Lighthouse		40	PG	X	Gulf Refining Co.	Do.	
Lionter		40	PG	X	A. R. Bull S. Co.	Do.	
Lillian		375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Luckenbach S. S. Co.	Do.	
Lillian Luckenbach		2,524 (118.85), 2,550 (117.18), 2,584 (116.90)	P	X	United Fruit S. S. Corporation.	T. R. T. Co.	
Limon		375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transportation Co.	M. R. T. Co.	
Lino		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	Winnington Transportation Co.	Ownder	
Lisio		143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.	
Livingson Ice		143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	George G. Bourne.	Do.	
L. J. Drake		375 (800), 425 (705), 500 (600)	PG	X	Portland Trawling Co.	Do.	
Lone Star		375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.	
Loon		375 (800), 425 (705), 500 (600)	PG	X	Mississippi Shipping Co.	M. R. T. Co.	
Lorain		40	PG	X	Standard Transportation Co.	R. M. C. A.	
Lorraine Cross		143 (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.	
Los Alamos		375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Cannar S. S. Corporation.	R. M. C. A.	
Los Angeles		2,524 (118.85), 2,550 (117.18), 2,584 (116.10)	P	X	Winnington Transportation Co.	Do.	
Losmar		375 (800), 425 (705), 500 (600)	PG	X	Texas Co.	Ownder	
Louisiana		375 (800), 425 (705), 500 (600)	PG	X	Ocean Trawling Co.	R. M. C. A.	
Louisiana		375 (800), 410 (730), 495 (705)	PG	X	American S. Co.	Do.	
Louis M. Winslow		143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Standard Oil Co. of California.	Ownder	
Louis R. Davidson		375 (800), 425 (705), 500 (600)	PG	X	Coos Bay Lumber Co.	R. M. C. A.	
Lubrico		375 (800), 425 (705), 500 (600)	PG	X	Compania Maritima	Ownder	
Lumberman		375 (800), 425 (705), 500 (600)	PG	X	C. H. K. Curtis.	Do.	
Luzon		375 (800), 410 (730), 425 (705)	PG	X	Vicente Madrial.	Do.	
Lynford E. Geer		375 (800), 410 (730), 425 (705)	PG	X		Do.	
Lynford E. Geer		375 (800), 410 (730), 425 (705)	PG	X		Do.	
Macaria		375 (800), 410 (730), 425 (705)	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—
Mackay Radio & Telegraph Co. (general call for all vessels). Macom.	KGMM					
Mactan	WBCE	375 (800), 410 (730), 425 (705), 500 (600), 1,684 (178.15)		X	City of New York, department of plant and structures.	Owner.
Madison	KZDW	306 (750), 500 (600)	PG	X	Compania Maritima.	Do.
Magallanes	KGBN	375 (800), 425 (705), 500 (600)	PG	N	Eastern S. Lines.	R. M. C. A.
Marguerite	KZDM	306 (750), 500 (600)	PG	N	Gutierrez Hermanos.	Owner.
Mahukona	KOJS	375 (800), 425 (705), 500 (600), 408 (640)	PG	X	South Atlantic S. S. Co.	R. M. C. A.
Maiden Creek	KENM	375 (800), 425 (705), 500 (600)	P	X	Matson Navigation Co.	Owner.
Maine	KIPX	do.	PG	X	U. S. S. B.	R. M. C. A.
Mainland No. 1.	WKCN	do.	PG	X	Fairfield S. S. Corporation.	Do.
	WCDJ	375 (800), 410 (730), 425 (705)	PG	X	Toronto, Hamilton & Buffalo Navigation Co.	R. C. A.
Major Wheeler.	WFH	375 (800), 425 (705), 500 (600)	PG	X	Baltimore Insular Line.	Owner.
Makayao	KDNIH	do.	PG	X	Matson Navigation Co.	Do.
Makiki	WMCD	375 (800), 400 (750), 468 (640), 500 (600)	PG	X	do.	R. M. C. A.
Makua	KUZF	375 (800), 425 (705), 500 (600)	PG	X	do.	Owner.
Mala	KUKL	do.	PG	X	do.	R. M. C. A.
Malabar	WKCR	143 (2,100,151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Malabar S. S. Co.	R. M. C. A.
Malacca	KERT	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Malacca S. S. Co.	Do.
Malama	KIBF	do.	PG	X	Matson Navigation Co.	Owner.
Malang	KDHY	do.	PG	X	Malco S. S. Co.	R. M. C. A.
Malbuca	KULC	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Malsah S. S. Co.	Do.
Malbuca	WQBN	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Mrs. May K. Rindge.	Do.
Maliko	WDOI	375 (800), 425 (705), 500 (600)	PG	X	Matson Navigation Co.	Owner.
Mallemak	KLXV	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Malsah S. S. Co.	R. M. C. A.
Malolo	WMCE	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), 5,225 (54.2), 5,555 (54), 8,290 (36.19), 8,450 (35.50), 11,050 (27.15), 11,230 (26.71), 13,240 (22.66), 16,575 (18.10)	PG	N	Matson Navigation Co.	Do.
Malolo Lifeboat No. 1.	KIHA	500 (600)	P	X	do.	Do.
Malolo Lifeboat No. 2.	KIIB	500 (600)	P	X	do.	Do.
Maltran	KULB	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Maltran S. S. Co.	R. M. C. A.
Mann	WKBP	375 (800), 425 (705), 500 (600)	PG	X	C. P. Whitehead.	Do.
Manatway	KOZG	do.	PG	X	Matson Navigation Co.	Owner.
Manatway	KDFM	do.	PG	X	Manatway S. S. Corporation.	R. M. C. A.
Man & J. Tracey	WMBV	do.	PG	X	M. & J. Tracey.	Do.
Mangere	WQCG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Ore S. S. Corporation.	Do.
Manhattan Island	WFOI	375 (800), 425 (705), 500 (600)	PG	X	Finkbine-Guild Transportation Co.	Do.
Manini	KDDQ	do.	PG	X	Matson Navigation Co.	Do.
Manitou	WBDDH	375 (800), 410 (730), 425 (705)	PG	N, X	Michigan Transit Co.	R. C. A.

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

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Meauticuit.....	KDQH	125 (2,100), 137 (2,100), 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.	
Meddo.....	WKCI	do.	PG	X	Meddo S. S. Corporation	R. M. C. A.
Medna.....	WJCG	375 (800), 425 (705), 500 (600)	PG	X	Mellory S. S. Co.	Do.
Melrose.....	WJCU	375 (800), 400 (760), 425 (705), 458 (640), 500 (600)	PG	X	Mystic S. S. Co.	Do.
Melville Dollar.....	KDXI	375 (800), 410 (730), 425 (705), 451 (690), 500 (600)	PG	X	Dellar S. S. Line	Do.
Mennon.....	KDNH	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,930), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X, N	Columbia River Packers Association.	R. M. C. A.
Memory III.....	WGDN	375 (800), 400 (760), 425 (705), 468 (640), 500 (600)	PG	X	A. F. Fithin	Owner.
Memphis.....	KDVA	274 (1,095), 315 (800), 500 (600)	P	X	Inland Waterways Corporation	R. M. C. A.
Memphis City.....	KDTR	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Mercer.....	KEPF	do.	PG	X	Associated Oil Co.	Do.
Mercos H. Whittier.....	KODQ	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	United Fruit S. S. Corporation	M. R. T. Co.
Metapan.....	KDAD	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,930), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Meton S. S. Co.	T. R. T. Co.
Meton.....	KDBM	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,930), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Meton S. S. Co.	R. M. C. A.
Mevania.....	KDCU	375 (800), 425 (705), 500 (600)	PG	X	Malston Co.	Do.
Mexican.....	WACK	375 (800), 425 (705), 454 (660), 500 (600)	PG	X	American Hawaiian S. S. Co.	Owner.
M. P. Elliott.....	KDNK	375 (800), 400 (760), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.
Miami.....	WHCR	375 (800), 400 (760), 425 (705), 468 (640), 500 (600)	PG	X	Panama & Occidental S. S. Co.	Do.
Michabo.....	KFSG	375 (800), 410 (730), 425 (705)	PG	X	Floyd Carlsic	Do.
Michael Gallagher.....	WMEE	375 (800), 410 (730), 425 (705)	PG	X	Reed S. S. Co.	R. M. C. A.
Michael Tracy.....	KEGS	375 (800), 425 (705), 500 (600)	PG	X	M. & J. Tracy	Owner.
Michigan.....	KFLN	375 (800), 410 (730), 425 (705)	PG	X	States S. S. Co.	Do.
Midlesex.....	KGGG	375 (800), 400 (760), 425 (705), 468 (640), 500 (600)	PG	X	Cleveland Chloris S. S. Co.	R. M. C. A.
Mid-West.....	WPPU	2,749 (109.1)	P	X	Conswise Transportation Corporation	Owner.
Migrant.....	WJDF	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (760), 425 (705), 468 (640), 500 (600)	PG	X	Benjamin G. Brinkman	R. M. C. A.
Mikimiki.....	WIDI	375 (800), 400 (760), 410 (730), 425 (705), 451 (660), 468 (640), 500 (600), 2,350 (129.3)	P	X	Carl Tucker	R. M. C. A.
Millinocket.....	WKCI	375 (800), 425 (705), 500 (600)	PG	X	Young Bros.	Owner.
Milton S. Patriek.....	KGEB	2,524 (118.86), 2,560 (117.2), 2,634 (116.10)	P	X	A. H. Bull S. S. Co.	Do.
Mimico.....	WOBZ	2,596 (115.96)	P	X	Wilmington Transportation Co.	Do.
Mincola.....	KSEE	375 (800), 400 (760), 425 (705), 468 (640), 500 (600)	PG	X	Rumard S. Shields	R. M. C. A.
Minnehaha.....	KDKK	143 (2,100), 153 (1,960), 157 (1,910), 159 (1,885), 169 (1,875), 375 (800), 425 (705), 468 (640), 500 (600)	PG	N	New Orleans & South American S. S. Co.	Do.
Minnesota.....	KIVB	375 (800), 425 (705), 500 (600)	PG	X	Atlantic Transport Co.	Do.
Minnetonka.....	WQCY	274 (1,095), 315 (800), 500 (600)	P	X	American Seantle Line (Inc.)	Do.
Minnesotan.....	WACL	375 (800), 425 (705), 500 (600)	PG	X	Inland Waterways Corporation	Owner.
				X	American-Hawaiian S. S. Co.	Do.

Missoula	WIAO		do	274 (1,095), 375 (800), 500 (600)	PG		Inland Lumber Co.	R. M. C. A.
Missouri	WFDL		375 (800), 410 (730), 425 (705)	PG			Inland Waterways Corporation	Owner.
Do	WQDK						Wisconsin & Michigan Transportation Co.	R. C. A.
Missouri	WACM	Δ	375 (800), 425 (705), 500 (600)	PG			American Hawaiian S. S. Co.	Owner.
Miss.	WSTZ		375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG			Bay State Fishing Co.	R. M. C. A.
Michell	KOTF		143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,895), 160 (1,875)	PG			U. S. S. B.	Do.
Milzpath	KFTZ	Δ	375 (800), 400 (750), 410 (730), 425 (705), 468 (640), 500 (600), 5,525 (51.3), 5,555 (51), 8,240 (38.19), 8,450 (35.50), 11,050 (27.19), 11,110 (27)	PG			Eugene F. MacDonald, Jr.	Do.
Mobile	KFLM		274 (1,095), 375 (800), 500 (600)	P			Inland Waterways Corporation	Owner.
Mobile City	KDCE		375 (800), 425 (705), 500 (600)	PG			Isthmian S. S. Co. (Inc.)	R. M. C. A.
Moehawk	WRCE		375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG			New England S. S. Co.	Do.
Do	KFYU	Δ	143 (2,100), 153 (1,960), 157 (1,910), 159 (1,895), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG			Clyde S. S. Co.	Do.
Mohegan	WRCM		375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG			New England S. S. Co.	Do.
Mojave	KDSH	Δ	143 (2,100), 157 (1,910), 375 (800), 425 (705), 500 (600)	PG			Standard Transportation Co.	Do.
Monmouth	WICF		375 (800), 425 (705), 500 (600)	PG			Southern Pacific Co.	Do.
Monroia	COJF		375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG			Atlantic Transportation Co.	Owner.
Montanan	WACN	Δ	375 (800), 425 (705), 500 (600)	PG			American Hawaiian S. S. Co.	R. M. C. A.
Montana	KZCQ		394.8 (756), 500 (600)	PG			Treador R. Yanco	Do.
Montauk	KIXV		375 (800), 400 (760), 425 (705), 468 (640), 500 (600)	PG			Atlantic Transportation Co.	R. M. C. A.
Montebello	KDPR	Δ		PG, PR			Union Oil Co. of California	Do.
Monterey	WECW		375 (800), 425 (705), 500 (600)	P			New York & Cuba Mail S. S. Co.	Do.
Montgomery	KFMH		274 (1,095), 375 (800), 425 (705), 500 (600)	PG			Inland Waterways Corporation	Owner.
Montgomery City	KDJZ		375 (800), 425 (705), 500 (600)	PG			Inland Waterways Corporation	R. M. C. A.
Morris S. Tremaine	KFTB		375 (800), 410 (730), 425 (705)	PG			U. S. Steel Products Co.	R. M. C. A.
Morro Castle	KGOV			PG			Eastern S. S. Corporation	Owner.
Mosella	KDCQ		143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,895), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG			Agwi Navigation Co.	R. M. C. A.
Do				PG			U. S. S. B.	Do.
Mount Baker	WQCN		375 (800), 500 (600)	PG			Red Salmon Canning Co.	Owner.
Mount Evans	KIMT			PG			U. S. S. B.	R. M. C. A.
Mount Hope	WHCQ			PG			Providence, Fall River & Newport Steamboat Co.	Owner.
Multnomah	WCDT		375 (800), 425 (705), 500 (600)	PG			Chas. R. McCormick Lumber Co.	Do.
Munaires	WNCB		375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG			Munaires S. S. Corporation	Do.
Munabro	WNCB		375 (800), 400 (750), 425 (705), 500 (600)	PG			Munamar S. S. Line (Inc.)	R. M. C. A.
Munamar	WNCC		143 (2,100), 151 (1,985), 153 (1,960), 159 (1,895), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG			Munamar S. S. Corporation	Do.
Munam	KELM		375 (800), 425 (705), 500 (600)	PG			Chas. R. McCormick Lumber Co.	Owner.
Munardan	KGNK			PG			Munson S. S. Line (Inc.)	Do.
Munargo	KDWH	Δ	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG			Munargo S. S. Line	R. M. C. A.
Manbeaver	WKCO		375 (800), 400 (750), 425 (705), 468 (640)	PG			Munson S. S. Line (Inc.)	Do.
Manuvo	KEMN		375 (800), 425 (705), 500 (600)	PG			do	Do.
Mandelta	WADZ		375 (800), 425 (705), 468 (640), 500 (600)	PG			do	Do.
Mandixie	WADZ		375 (800), 425 (705), 468 (640), 500 (600)	PG			Redman S. S. Corporation	Do.
Mandolphin	KFTK			PG			Redbird S. S. Corporation	Do.
Manerie	KGNK			PG			Munson S. S. Line (Inc.)	Do.
Manettes	WNCB		375 (800), 425 (705), 500 (600)	PG			Munindies S. S. Corporation	Owner.
Manising	KPNQ	Δ	375 (800), 410 (730), 425 (705)	PG			Cleveland Cliffs S. S. Co.	R. M. C. A.

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

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Munisia.....	WNCF	375 (800), 425 (705), 500 (600)	PG	X	Munson S. S. Line (Inc.)	R. M. C. A.
Munleon.....	KINF	do	PG	X	Chas. R. McCormick Lumber Co.	Owner.
Munlisto.....	KORF	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Munson S. S. Line (Inc.)	R. M. C. A.
Munloyal.....	KOPF	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	do	Do.
Munmotor.....	WVOI	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Munmysic.....	WBCP	375 (800), 425 (705), 454 (650), 500 (600)	PG	X	do	Do.
Munorleans.....	WNCG	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	do	Do.
Munorplace.....	WNGH	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Munorio.....	WNCJ	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Munsono S. S. Corporation.	Do.
Munsono.....	WNCJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Munson S. S. Line (Inc.)	Do.
Muntrapic.....	KOPJ	375 (800), 425 (705), 500 (600)	PG	X	Muskogee S. S. Co.	Do.
Muskogee.....	WBCR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Nabesna S. S. Co.	Do.
Nabesna.....	KONV	375 (800), 425 (705), 500 (600)	PG	X	Manila R. R. Co.	M. R. T. Co.
Naga.....	KZAM	454.5 (660), 500 (600), 5,615 (33.42)	P	X	Nakat Packing Corporation.	Owner.
Nakeon.....	WSBM	2,320 (129.3)	P	X	Fred J. Fisher.	Do.
Nakhoda.....	WMBDE	143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 468 (640), 500 (600)	PG	X	Baltimore & Carolina Line (Inc.)	R. M. C. A.
Nancy Weems.....	WODL	do	PG	X	Merchants & Miners Transportation Co.	Owner.
Nantucket.....	WMOY	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Swenson Fur Trading Co.	R. M. C. A.
Nanuk.....	WKDB	143 (2,100), 151 (1,985), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875)	PG	X	U. S. S. B.	Do.
Narbo.....	KDIG	375 (800), 425 (705), 500 (600)	PG	X	do	do
Narcissus.....	KDIH	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885)	PG	X	do	do
Nashaba.....	KDSM	100 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	do	do
Nashaba.....	KDSM	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Inland Waterways Corporation.	Owner.
Natchez.....	KDJY	274 (1,095), 375 (800), 500 (600)	P	X	U. S. S. B.	R. M. C. A.
Natirar.....	KDKM	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875)	PG	X	do	do
Naushon.....	WODS	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	New England S. S. Co.	Do.
Navigator.....	KQGN	5,525 (54.3), 8,200 (36.19), 8,450 (35.5)	PG	X	Manuel H. Freitas	Owner.
Nebraskan.....	WACE	375 (800), 425 (705), 500 (600)	PG	X	American Hawaiian S. S. Co.	Do.
Neguanee.....	KFNR	375 (800), 410 (730), 425 (705)	PG	X	Cleveland Cliffs S. S. Co.	Owner.
Negros.....	KZEN	400 (750), 500 (600)	PG	X	Compania Maritima	Do.
Neil Macleod.....	KZAG	397 (755), 500 (600)	PG	X	do	Do.
Nelson.....	WHGM	375 (800), 425 (705), 500 (600)	PG	X	Cuba Distilling Co.	R. M. C. A.
Nelson Traveler.....	KDDA	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Charles Nelson Co. (Inc.)	Do.
Nemaha.....	KUSR	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Neptune.....	WODC	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Neptune Line (Inc.)	Do.
Neshure.....	WQDI	375 (800), 400 (750), 425 (705), 500 (600), 2,320 (129.3)	PG	X	Alfred Hubbard	Do.
Nevada.....	KOZJ	375 (800), 425 (705), 500 (600)	PG	X	States S. S. Co.	Owner.
Do.....	WTUO	do	PG	X	Texas S. S. Co.	Do.
Nevadan.....	WACP	do	PG	X	American Hawaiian S. S. Co.	R. M. C. A.
Nevadan.....	WACP	do	PG	X	do	Owner.

Newton	WICV	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Mystic S. S. Co.	R. M. C. A.
New Britain	KIRG	375 (800), 425 (705), 500 (600)	PG	X	Great Northwestern Shipping Corp.	Do.
New Hampshire	WRCN	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	New England S. S. Co.	Do.
New Haven	do	do	PG	X	do	Do.
New Jersey	KDWD	375 (800), 400 (750), 425 (705), 454 (660), 500 (600)	PG	X	Texas Co.	Do.
New Orleans	KDFB	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 454 (660), 500 (600)	PG	N, X	U. S. S. B.	Do.
New York	KOSL	375 (800), 425 (705), 500 (600)	PG	X	States S. S. Co.	Owner.
Do.	WRCG	do	PG	X	Texas Co.	R. M. C. A.
Do.	WEGF	143 (2,100), 151 (1,985), 160 (1,875), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Eastern S. S. Lines.	Do.
N. F. Leopold	KGNY	375 (800), 394 (750), 410 (730), 425 (705)	PG	X	Inland S. S. Co.	Owner.
Niiraga	WGDY	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Giano Dunn.	Do.
Nippekontu	WOBV	4,148 (72.3)	P	X	Robert D. Russel.	Do.
Nishimaha	KFVM	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Nizina	WCCV	do	P	X	Alaska S. S. Co.	Owner.
Nome	WHDC	375 (800), 425 (705), 468 (640), 500 (600), 5,525 (54.3), 5,615 (53.43), 8,330 (38.01), 11,050 (27.15), 11,110 (2.80)	PG	X	Damon (Inc.)	R. M. C. A.
Noro.	KDGG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Grace S. S. Co. (Inc.)	Do.
Noro.	KFYB	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Northland Transportation Co.	Do.
Nor Gaster	WOB1	375 (800), 425 (705), 500 (600)	PG	X	E. M. Chance.	Do.
Norna	KEKC	375 (800), 425 (705), 500 (600)	PG	X	Norma S. S. Corporation.	R. M. C. A.
Norman Bridge	WPCJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pan American Petroleum & Transport Co.	Do.
Norseman	KGOO	375 (800), 425 (705), 500 (600)	PG	X	Louis C. Decoppet.	Owner.
North American	WTBA	375 (800), 410 (730), 425 (705)	PG	N, X	Chicago, Duluth & Georgian Bay Transit Co.	R. C. A.
North Dakota	WRBZ	375 (800), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Utopian Fisheries Co.	Owner.
Northwestern Light	KQEG	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	John Jordan.	R. M. C. A.
North King	KFEW	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N, N	Alaska-Portland Packers Association (Inc.)	Do.
North Land	WFCG	375 (800), 425 (705), 500 (600)	PG	N	Eastern S. S. Lines (Inc.)	Do.
Northland	WMDG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Northland Transportation Co. (Inc.)	Do.
Northwestern	WCCV	375 (800), 425 (705), 500 (600)	PG	N	Alaska S. S. Co.	M. R. T. Co.
Norwood	WEDT	do	PG	N	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), 425 (705), 468 (640), 500 (600)	PG	X	do	Do.
Nosa Prince	KUMI	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Nosa Queen	KDCN	do	PG	X	do	Do.
Notre Dame	WVDT	do	PG	X	Travler Notre Dame (Inc.)	Do.
Nourmahal	WQBT	143 (2,100), 151 (1,980), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N, X	Vincent Astor.	Do.
Noyo	WEDR	375 (800), 425 (705), 500 (600)	PG	X	National S. S. Co.	Owner.
Nra. Sta. De Alba	KZAS	462 (650), 500 (600)	PG	X	Hercules Lumber Co.	Do.
Nra. Sta. de la Paz	KZAJ	396.8 (75.6), 500 (600)	PG	X	Genato & Co.	Do.
Nra. Sta. del Rosario	KZAJ	414 (72.5), 500 (600)	PG	X	do	Do.
Oakley L. Alexander	WBCK	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Pocahontas S. S. Co.	R. M. C. A.
Oakman	KDAG	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Oakmar	KUDZ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Calmar S. S. Corporation	Do.
Oakpark	KUNN	375 (800), 410 (730), 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—
Oakspring.....	KOVN	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Oakwood.....	KDIN	do.	PG	X	do.	Do.
Occidental.....	KFSJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Texas S. S. Co. (Inc.)	Do.
Ocean.....	KFKM	143 (2,100), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Bay State Fishing Co.	Do.
Oceania Vance.....	KGCV	375 (800), 410 (740), 425 (705)	PG	X	Halfhill Packing Corporation.	Do.
Octarra.....	WADO	375 (800), 410 (740), 425 (705)	PG	N, X	Great Lakes Transit Corporation.	R. C. A.
Oduna.....	KDID	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 375 (800), 425 (705), 500 (600)	PG	N, X	Alaska S. S. Co.	Owner.
Ogontz.....	KINB	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Ohioan.....	WACQ	do.	PG	X	American-Hawaiian S. Co.	Do.
Oldham.....	KDQG	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,855), 375 (800), 425 (705), 500 (600)	PG	N, X	U. S. S. B.	Do.
Olean.....	KOBN	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Vacuum Oil Co.	R. M. C. A.
Oleum.....	WFDO	375 (800), 425 (705), 454 (660), 500 (600)	PG	X	Union Oil Co.	M. P. T. Co.
Olive K.....	WMDC	375 (800), 400 (750), 425 (705), 5,525 (64.3), 8,290 (36.19), 8,450 (35.50), 11,050 (27.15), 11,230 (26.71), 13,240 (22.64)	PG	X	C. F. Kettering	R. M. C. A.
Olympia.....	KILL	375 (800), 425 (705), 500 (600)	PG	X	Tacoma Oriental S. S. Co.	Owner.
Olympic.....	KDIV	do.	PG	X	E. K. Wood Lumber Co.	Do.
Onelda.....	KDJO	do.	PG	X	Ford Motor Co.	R. C. A.
Onondaga.....	KDJR	do.	PG	X	do.	Do.
Ontario.....	WMCZ	375 (800), 425 (705), 500 (600)	PG	N, X	Merchants & Miners Transpn. Co.	R. M. C. A.
Do.....	WSBP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Gulf Barge & Towing Co.	Do.
Oregon.....	KUJZ	375 (800), 425 (705), 500 (600)	PG	X	Texas S. S. Co. (Inc.)	Do.
Do.....	KUTD	do.	PG	X	States S. S. Co.	Do.
Do.....	WBDN	do.	PG	X	Independent Navigation Co.	Owner.
Oregonian.....	WACR	do.	PG	X	American-Hawaiian S. Co.	Do.
Ore S. S. Corporation and Calmar S. S. Corp. (general call for all vessels).	WBCO	do.	PG	X	Ore S. S. Corporation and Calmar S. S. Corporation.	R. M. C. A.
Oriente.....	KGXX	do.	PG		do.	Do.
Orion.....	WODE	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	P	X	Atlantic, Gulf & West Indies S. S. Lines.	Do.
Oritani.....	KFZI	375 (800), 425 (705), 500 (600)	PG	X	Carl J. Forstmann	Do.
Orizaba.....	WECX	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 410 (730), 425 (705), 454 (610), 500 (600)	PG	N	Dawnie S. S. Corporation.	Do.
Ormes.....	KFZJ	375 (800), 400 (750), 425 (705), 478 (740), 500 (600)	PG	X	New York & Cuba Mail S. S. Co.	Do.
Oscar D. Bennett.....	WPCK	do.	PG	X	Dawnie S. S. Corporation.	Do.
O. S. McFarland.....	KDUZ	375 (800), 410 (730), 425 (705)	PG	X	Pan American Petroleum & Trans-Port Co.	Do.
Osprey.....	KUJN	375 (800), 425 (705), 500 (600)	PG	X	Lanwood S. S. Co.	R. C. A.
Ossining.....	KEFR	do.	PG	X	Potomac Trawling Co.	R. M. C. A.
				X	U. S. S. B.	Do.

RADIO STATIONS OF THE UNITED STATES

Otho.....	KULX	do				American-West African Line.	Do.
Otesgo.....	WQCT	do				Libby, McNeill & Libby.	Owner.
O. T. Waring.....	WOCV	do				Standard Shipping Co.	R. M. C. A.
Pacific.....	KDZY	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,940), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X			
Pacific Cedar.....	KUNR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X			
Pacific Fir.....	KUPJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X			
Pacific Hemlock.....	WSUA	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), 500 (600).	PG	X			
Pacific Pine.....	KUVJ	375 (800), 425 (705), 500 (600).	PG	X			
Pacific Redwood.....	KDJG	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).	PG	X			
Pacific Spruce.....	KDCV	143 (2,100), 151 (1,985), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X			
Pacific Sun.....	WQDL	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X			
Paco.....	KDEW	do					
Padsay.....	KUQG	455 (650), 500 (600).	PG	X			
Palawan.....	KZDQ	375 (800), 410 (730), 425 (705).	PG	X			
Pam Schneider.....	KFNT	375 (800), 425 (705), 500 (600).	PG	X			Owner.
Panama.....	WACS	do					
Pan America.....	KDWZ	143 (2,100), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).	PG	N			Owners. R. M. C. A.
Pansy.....	KZBG	500 (600).	PG	X			Owner.
Panuco.....	WECY	375 (800), 425 (705), 500 (600).	PG	X			R. M. C. A.
Papoose.....	WNBS	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X			Do.
Parismina.....	KDAG	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 500 (600).	PG	N			T. R. T. Co.
Pastores.....	KDBD	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).	PG	X			Do.
Pat Dolhony.....	WPBQ	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), 468 (640), 500 (600).	PG	X			R. M. C. A.
Patricia.....	KGMP	5,525 (54.3), 5,555 (54), 8,200 (36.19), 11,050 (27.15), 11,110 (27).	P	X			Owner.
Patrick Henry.....	KUPM	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).	PG	X			R. M. C. A.
Patrick J. Hurley.....	KGQK	do					
Patrick J. O'Hara.....	WNDX	do					
Paul H. Harwood.....	KJJO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X			Do.
Paul Luckenbach.....	WLCH	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).	PG	X			Do.
Paulsboro.....	WKCL	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X			Do.
Paul Shoup.....	KDTE	375 (800), 410 (730), 425 (705), 454 (660), 500 (600).	PG	X			M. R. T. Co.
Peacock.....	KDKY	375 (800), 425 (705), 454 (660), 500 (600).	PG	X			R. M. C. A.
Peconic.....	WHPH	375 (800), 425 (705), 500 (600).	PG	X			Do.
Pangasinan.....	WILDS	2,596 (115.56).	P	X			Owner.
Do.....	KOMJ	375 (800), 400 (750), 425 (705), 454 (660), 468 (640), 500 (600).	PG	X			R. M. C. A.
Pennmar.....	KUNF	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X			Do.
Pennsylvania.....	KUSG	375 (800), 425 (705), 500 (600).	PG	X			Do.
Do.....	WKCV	do					
Do.....	WMDV	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), 5,525 (54.3), 5,555 (54), 8,200 (36.19), 84,50 (35.50), 11,050 (27.15), 11,230 (26.71), 13,240 (22.06).	PG	N			American Line S. S. Corporation.

RADIO DIVISION, DEPARTMENT OF COMMERCE

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—
Pennsylvania	WACT	375 (800), 495 (705), 500 (600)	PG	X	American-Hawaiian S. S. Co.	Owner.
Pennsylvania Sun	KFFC	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Sun Oil Co.	R. M. C. A.
Pennbscot	KGOR	375 (800), 410 (750), 425 (705)	PG	X	Nicholson Universal S. S. Co.	R. C. A.
Do	WAOI	375 (800), 425 (705), 500 (600)	PG	X	Penobscot S. S. Co.	R. M. C. A.
Pequonock	WRCP	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	New England S. S. Co.	Do.
Pere Marquette 15	WDCA	do	PG	X	Pere Marquette R. R.	Owner.
Pere Marquette 17	WDCC	do	PG	X	do	Do.
Pere Marquette 18	WDCE	do	PG	X	do	Do.
Pere Marquette 19	WDCE	do	PG	X	do	Do.
Pere Marquette 20	WDCE	do	PG	X	do	Do.
Pere Marquette 21	WDCE	do	PG	X	do	Do.
Pere Marquette 22	WDCE	do	PG	X	do	Do.
Perry L. Smithers	KUDZ	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Booth Fisheries Co.	Do.
Peter H. Crowell	KEXV	375 (800), 425 (705), 500 (600)	PG	N	Mystic S. S. Co.	R. M. C. A.
Peter Helms	KU1P	do	PG	X	Chas. R. McCormick Lumber Co.	Do.
Peter Kerr	KU2T	do	PG	X	Pacific-Atlantic S. S. Co.	Owner.
Peter Reiss	WADG	375 (800), 410 (750), 425 (705)	PG	X	Reiss S. S. Co.	Do.
Peter White	KFLQ	143 (810), 137 (1,910), 375 (800), 410 (750), 425 (705)	PG	X	Presque Isle Transportation Co.	Do.
Petrol	KFDG	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Portland Trawling Co.	R. M. C. A.
Do	WRBS	2,820 (123.3)	PG	X	Nakat Packing Corporation	Owner.
Phillip D. Block	WDIG	375 (800), 410 (750), 425 (705)	P	X	Pioneer S. S. Co.	Do.
Phoenix	WJEO	375 (800), 425 (705), 500 (600)	PG	X	American Tankers Corporation	R. M. C. A.
Pioneer	KFMK	375 (800), 410 (750), 425 (705)	PG	X	Cleveland Cliffs S. S. Co.	Owner.
Do	WOCW	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.
Pioneer S. S. Co. (general call for all vessels).	KFPZ	375 (800), 425 (705), 500 (600)	PG	X	U. S. B.	Do.
Pipstone County	KIMZ	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Harry G. Haskell	Do.
Placidia	KOQA	375 (800), 425 (705), 461 (660), 500 (600)	PG	X	Portland Trawling Co.	Do.
Plover	KUMT	375 (800), 425 (705), 500 (600)	PG	X	Charles Nelson Co. (Inc.)	Do.
Plow City	KUCC	375 (800), 425 (705), 500 (600)	PG	X	Plymouth S. S. Co.	Do.
Plymouth	WRCI	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	New England S. S. Co.	Do.
Do	WRCH	2,450 (118.89), 2,560 (117.18), 2,584 (116.10), 3,112 (96.40), 5,525 (54.3), 5,550 (54.1), 5,615 (53.42)	PG	X	Walter W. Horne	Owner.
Poinsettia	KFHV	do	P	X	Gulf Pacific Line (Inc.)	R. M. C. A.
Point Arena	KUCD	375 (800), 410 (750), 425 (705), 454 (660), 500 (600)	PG	X	do	Do.
Point Bonita	KIFQ	375 (800), 425 (705), 500 (600)	PG	X	Atlantic Refining Co.	Do.
Point Breeze	KIJY	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Gulf Pacific Line (Inc.)	Do.
Point Kermin	KOCP	do	PG	X	do	Do.
Point Gerlin	WBRK	do	PG	X	do	Do.
Point Montara	KOCN	do	PG	X	do	Do.
Point Reyes	KUCN	do	PG	X	do	Do.
Point San Pablo	KOZN	375 (800), 425 (705), 500 (600)	PG	X	do	Do.
Point San Pedro	KDCC	375 (800), 425 (705), 454 (660), 500 (600)	PG	X	do	Do.

RADIO STATIONS OF THE UNITED STATES

Point Sur.....	KUKD	do	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	Standard Shipping Co.	Do.
Polarine.....	WOCX	do	375 (800), 425 (705), 500 (600)	PG	X	do	U. S. S. B.	Do.
Polybus.....	KIGL	do	375 (800), 425 (705), 500 (600)	PG	X	do	Pomona S. S. Co.	Do.
Pomona.....	KDAT	do	375 (800), 500 (600)	PG	X	do	National Coal Co.	Owner.
Pompey.....	KZBF	do	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875)	PG	X	do	New York & Porto Rico S. S. Co.	R. M. C. A.
Ponce.....	WFCB	do	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	Cleveland Cliffs S. S. Co.	Owner.
Pontiac.....	KFML	do	375 (800), 410 (730), 425 (705)	PG	X	do	Portland Trawling Co.	R. M. C. A.
Portland Trawling Co. (general call for all vessels).	KGPT	do	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	do	R. M. C. A.
Portmar.....	KOPZ	do	375 (800), 425 (705), 500 (600)	PG	X	do	Calmar S. S. Corporation.	Do.
Porto Rico.....	WFCG	do	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885)	PG	X	do	New York & Porto Rico S. S. Co.	Do.
Potter.....	KDFC	do	160 (1,875), 175 (1,885), 185 (1,900), 195 (1,910), 205 (1,910), 215 (1,910), 220 (1,910)	PG	N, X	do	U. S. S. B.	Do.
President Adams.....	KDRL	do	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 165 (1,875), 170 (1,875), 175 (1,875), 180 (1,875), 185 (1,875), 190 (1,875), 195 (1,875), 200 (1,875), 205 (1,875), 210 (1,875), 215 (1,875), 220 (1,875), 225 (1,875), 230 (1,875), 235 (1,875), 240 (1,875), 245 (1,875), 250 (1,875), 255 (1,875), 260 (1,875), 265 (1,875), 270 (1,875), 275 (1,875), 280 (1,875), 285 (1,875), 290 (1,875), 295 (1,875), 300 (1,875)	PG	N	do	Dollar S. S. Lines (Inc.)	Owner.
President Cleveland.....	KDCM	do	375 (800), 425 (705), 500 (600)	PG	N	do	do	Owner.
President Fillmore.....	WCCN	do	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885)	PG	N	do	do	Do.
President Garfield.....	KDJC	do	160 (1,875), 175 (1,885), 185 (1,900), 195 (1,910), 205 (1,910), 210 (1,910), 215 (1,910), 220 (1,910)	PG	N	do	Admiral Oriental Line	Do.
President Grant.....	KDUT	do	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875)	PG	N	do	United States Lines	R. M. C. A.
President Harding.....	KDWK	do	375 (800), 425 (705), 500 (600)	PG	N	do	Dollar S. S. Lines (Inc.)	Owner.
President Harrison.....	KDMQ	do	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 165 (1,875), 170 (1,875), 175 (1,875), 180 (1,875), 185 (1,875), 190 (1,875), 195 (1,875), 200 (1,875), 205 (1,875), 210 (1,875), 215 (1,875), 220 (1,875), 225 (1,875), 230 (1,875), 235 (1,875), 240 (1,875), 245 (1,875), 250 (1,875), 255 (1,875), 260 (1,875), 265 (1,875), 270 (1,875), 275 (1,875), 280 (1,875), 285 (1,875), 290 (1,875), 295 (1,875), 300 (1,875)	PG	N	do	do	Do.
President Hayes.....	KDIB	do	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885)	PG	N	do	Admiral Oriental Line	Do.
President Jackson.....	KDPA	do	160 (1,875), 175 (1,885), 185 (1,900), 195 (1,910), 205 (1,910), 210 (1,910), 215 (1,910), 220 (1,910)	PG	N	do	do	Do.
President Jefferson.....	KDOT	do	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 165 (1,875), 170 (1,875), 175 (1,875), 180 (1,875), 185 (1,875), 190 (1,875), 195 (1,875), 200 (1,875), 205 (1,875), 210 (1,875), 215 (1,875), 220 (1,875), 225 (1,875), 230 (1,875), 235 (1,875), 240 (1,875), 245 (1,875), 250 (1,875), 255 (1,875), 260 (1,875), 265 (1,875), 270 (1,875), 275 (1,875), 280 (1,875), 285 (1,875), 290 (1,875), 295 (1,875), 300 (1,875)	PG	N	do	do	Do.
President Johnson.....	WCCM	do	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885)	PG	N	do	Dollar S. S. Lines (Inc.)	Do.
President Lincoln.....	KDUY	do	160 (1,875), 175 (1,885), 185 (1,900), 195 (1,910), 205 (1,910), 210 (1,910), 215 (1,910), 220 (1,910)	PG	N	do	do	Do.
President Madison.....	KDVR	do	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 165 (1,875), 170 (1,875), 175 (1,875), 180 (1,875), 185 (1,875), 190 (1,875), 195 (1,875), 200 (1,875), 205 (1,875), 210 (1,875), 215 (1,875), 220 (1,875), 225 (1,875), 230 (1,875), 235 (1,875), 240 (1,875), 245 (1,875), 250 (1,875), 255 (1,875), 260 (1,875), 265 (1,875), 270 (1,875), 275 (1,875), 280 (1,875), 285 (1,875), 290 (1,875), 295 (1,875), 300 (1,875)	PG	N	do	Admiral Oriental Line	Do.
President McKinley.....	KDSL	do	160 (1,875), 175 (1,885), 185 (1,900), 195 (1,910), 205 (1,910), 210 (1,910), 215 (1,910), 220 (1,910)	PG	N	do	do	Do.
President Monroe.....	KDAR	do	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 165 (1,875), 170 (1,875), 175 (1,875), 180 (1,875), 185 (1,875), 190 (1,875), 195 (1,875), 200 (1,875), 205 (1,875), 210 (1,875), 215 (1,875), 220 (1,875), 225 (1,875), 230 (1,875), 235 (1,875), 240 (1,875), 245 (1,875), 250 (1,875), 255 (1,875), 260 (1,875), 265 (1,875), 270 (1,875), 275 (1,875), 280 (1,875), 285 (1,875), 290 (1,875), 295 (1,875), 300 (1,875)	PG	N	do	Dollar S. S. Lines (Inc.)	Do.
President Pierce.....	KDNY	do	160 (1,875), 175 (1,885), 185 (1,900), 195 (1,910), 205 (1,910), 210 (1,910), 215 (1,910), 220 (1,910)	PG	N	do	do	Do.
President Polk.....	KDOZ	do	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 165 (1,875), 170 (1,875), 175 (1,875), 180 (1,875), 185 (1,875), 190 (1,875), 195 (1,875), 200 (1,875), 205 (1,875), 210 (1,875), 215 (1,875), 220 (1,875), 225 (1,875), 230 (1,875), 235 (1,875), 240 (1,875), 245 (1,875), 250 (1,875), 255 (1,875), 260 (1,875), 265 (1,875), 270 (1,875), 275 (1,875), 280 (1,875), 285 (1,875), 290 (1,875), 295 (1,875), 300 (1,875)	PG	N	do	do	Do.
President Roosevelt.....	KDWS	do	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 165 (1,875), 170 (1,875), 175 (1,875), 180 (1,875), 185 (1,875), 190 (1,875), 195 (1,875), 200 (1,875), 205 (1,875), 210 (1,875), 215 (1,875), 220 (1,875), 225 (1,875), 230 (1,875), 235 (1,875), 240 (1,875), 245 (1,875), 250 (1,875), 255 (1,875), 260 (1,875), 265 (1,875), 270 (1,875), 275 (1,875), 280 (1,875), 285 (1,875), 290 (1,875), 295 (1,875), 300 (1,875)	PG	N	do	United States Lines	R. M. C. A.

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

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
President Taft.....Δ	KDRW	143 (2,100), 151 (1,985), 153 (1,950), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600), 525 (54.3), 555 (54), 6,590 (45.52), 8,330 (35.01), 11,050 (27.15), 11,330 (26.71), 16,580 (13.04), 16,660 (18.007), 22,100 (13.575), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Dollar S. S. Lines (Inc.)	Owner.
President Van Buren.....Δ	KDHF	143 (2,100), 151 (1,985), 153 (1,950), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	do.	Do.
President Warfield.....Δ	KGQC	143 (2,100), 151 (1,985), 153 (1,950), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Baltimore Steam Packet Co.	R. M. C. A.
President Wilson.....Δ	KDVC	143 (2,100), 151 (1,985), 153 (1,950), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	N	Dollar S. S. Lines (Inc.)	Owner.
Presque Isle.....Δ	KFNS	375 (800), 400 (750), 425 (705), 500 (600)	PG	N	Presque Isle Transportation Co.	Do.
Price McKinney.....Δ	KDXR	375 (800), 400 (750), 425 (705), 500 (600)	PG	N	Pioneer S. S. Co.	Do.
Princeton.....Δ	KDLU	375 (800), 400 (750), 425 (705), 500 (600)	PG	N	Whitman, Ward & Lee Co.	Do.
Do.....Δ	WOCY	375 (800), 400 (750), 425 (705), 500 (600)	PG	N	Standard Shipping Co.	Do.
Priscilla.....Δ	WRCI	375 (800), 400 (750), 425 (705), 500 (600)	PG	N	New England S. S. Co.	Do.
Providence.....Δ	KUTV	375 (800), 425 (705), 500 (600)	PG	N	Mechanics & Miners Transpn. Co.	Do.
Do.....Δ	WRCJ	375 (800), 400 (750), 425 (705), 500 (600)	PG	N	New England S. S. Co.	Do.
Prusa.....Δ	KELQ	375 (800), 425 (705), 500 (600)	PG	N	Tampa Inter-Ocean S. S. Co.	Do.
Pueblo.....Δ	KESV	375 (800), 400 (750), 425 (705), 500 (600)	PG	N	Petroleum Navigation Co.	Do.
Puritan.....Δ	WADL	375 (800), 410 (730), 425 (705), 500 (600)	PG	N	Michigan Transit Corporation.	Do.
Quaker City.....Δ	KOZL	375 (800), 425 (705), 500 (600)	PG	N	U. S. S. B.	R. M. C. A.
Queen.....Δ	WGCW	143 (2,100), 157 (1,910), 160 (1,875), 375 (800), 400 (730), 425 (705), 468 (640), 500 (600)	PG	N	Pacific S. S. Co.	R. M. C. A.
Queen Anne.....Δ	WGDH	143 (2,100), 157 (1,910), 160 (1,875), 375 (800), 400 (730), 425 (705), 468 (640), 500 (600)	PG	N	Isaac F. Emerson.	R. M. C. A.
Queen of Scots.....Δ	WGDZ	2,740 (109.5), 5,525 (54.3)	PG	N	Anthony J. Drexel, jr.	Muroni I.
Quest.....Δ	WTBD	375 (800), 425 (705), 500 (600)	P	N	Wilmingtion Transportation Co.	M. C. Co.
Quick Silver II.....Δ	KGMJX	375 (800), 425 (705), 500 (600)	PG	N	Albert E. Pierce.	Owner.
Quincy.....Δ	KPEF	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Quincy S. S. Co.	R. M. C. A.
Do.....Δ	WFDZ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	R. O'Brien & Co. (Inc.)	Do.
Quisque.....Δ	WREI	375 (800), 425 (705), 500 (600)	PG	N	U. S. S. B.	Do.
Radiomatica Corporation.....Δ	WVAA	375 (800), 425 (705), 500 (600)	PG	N	do.	Do.
Rajah.....Δ	WVNZ	375 (800), 425 (705), 500 (600)	PG	N	Munson S. S. Line (Inc.)	Do.
Ranona.....Δ	KJYZ	375 (800), 425 (705), 500 (600)	PG	N	John W. Hubbard.	Owner.
Raven.....Δ	KGNV	375 (800), 425 (705), 500 (600)	PG	N	Alaska Packers Association.	Do.
Ravleigh Warner.....Δ	WSCV	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Saline Towing Co.	R. M. C. A.
Reaper.....Δ	KDLG	375 (800), 425 (705), 454 (660), 500 (600)	PG	N	Texas Co.	Do.
Reedwood.....Δ	WCCX	375 (800), 425 (705), 500 (600)	PG	N	Alaska S. S. Co.	Owner.
Relay.....Δ	WEDS	143 (2,100), 151 (1,985), 153 (1,950), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 500 (600)	P	N	Pacific American Fisheries Co.	R. M. C. A.
Relief.....Δ	WLCO	143 (2,100), 151 (1,985), 153 (1,950), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 500 (600)	PG	N	All America Cable Co.	M. R. T. Co.
Relief.....Δ	WLCZ	143 (2,100), 151 (1,985), 153 (1,950), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 500 (600)	PG	N	Merritt-Chapman & Scott Corporation.	R. M. C. A.

Rene.....	△	WQDR	143 (2,100), 151 (1,985), 153 (1,966), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Rene Corporation of Delaware.....	Do.
Republic.....	△	KUBJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Petroleum Navigation Co.....	Do.
Do.....	△	WTCW	143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).	PG	N	United States Lines.....	Do.
Republic Lifeboat No. 1.....	△	KSNA	do.....	P	X	do.....	Do.
Republic Lifeboat No. 2.....	△	KSNB	do.....	P	X	Merritt-Chapman & Scott Corporation.....	Do.
Resource.....	△	WKCN	do.....	PG	X	do.....	Do.
Restorer.....	△	WDDP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Commercial Pacific Cable Co.....	R. M. C. A.
Richard Holyoke.....	△	KFNB	375 (800), 425 (705), 500 (600).	PG	X	Bellingham Tug & Barge Co.....	Owner.
Richard J. Reiss.....	△	WADH	375 (800), 400 (750), 425 (705).	PG	X	Reiss S. S. Co.....	Do.
Richard Peck.....	△	WRDR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	New England S. S. Co.....	R. M. C. A.
Richfield.....	△	WKCO	375 (800), 400 (750), 425 (705), 454 (660), 500 (600).	PG	X	Richfield Oil Co.....	Do.
Richmond.....	△	KDOQ	375 (800), 410 (730), 425 (705), 468 (640), 500 (600).	P	X	Alken Tug & Barge Co.....	Do.
Do.....	△	WOCF	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Standard Oil Co. of California.....	R. M. C. A.
Ripple.....	△	KFLP	375 (800), 425 (705), 500 (600), 5,555 (54.3), 5,555 (54), 8,290 (36.19).	PG	X	F. E. Bishop.....	Do.
Do.....	△	KFKN	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Bay State Fishing Co.....	Do.
R. J. Hanna.....	△	KDRD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Standard Oil Co. of California.....	Do.
Roanoke.....	△	KOVX	375 (800), 425 (705), 500 (600).	PG	X	Texas Co.....	Do.
Robert E. Hopkins.....	△	KDVE	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Tide Water Oil Co.....	Do.
Robert E. Lee.....	△	WTCH	143 (2,100), 153 (1,966), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).	PG	N	Robert E. Lee S. S. Corporation.....	Do.
Robert Hobson.....	△	WPBA	143 (2,100), 151 (1,985), 153 (1,966), 155 (1,935), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705).	PG	X	Interlake S. S. Co.....	R. C. A.
Robert Johnson.....	△	KLUE	375 (800), 425 (705), 454 (660), 500 (600).	PG	X	Pacific Spruce Corporation.....	M. R. T. Co.
Robert Luckenbach.....	△	KUKS	375 (800), 425 (705), 500 (600).	PG	X	Luckenbach S. S. Co.....	R. M. C. A.
Robert P. Clark.....	△	WJCN	375 (800), 410 (730), 425 (705), 500 (600).	PG	X	Gulf Refining Co.....	Do.
Robert W. Wilmot.....	△	KGMS	375 (800), 425 (705), 500 (600).	PG	X	New Orleans Coal & Bisso Tow Boat Co.....	Owner.
Robin Adair.....	△	KOVM	375 (800), 425 (705), 500 (600).	PG	X	Seas Shipping Co.....	R. M. C. A.
Robin Goodfellow.....	△	KUBN	375 (800), 425 (705), 500 (600).	PG	X	do.....	Do.
Robin Gray.....	△	KOXT	375 (800), 425 (705), 500 (600).	PG	X	do.....	Do.
Robin Hood.....	△	KOTM	375 (800), 410 (730), 500 (600).	PG	X	do.....	Do.
Rochester.....	△	KUTZ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Vacuum Oil Co.....	Do.
Roland.....	△	WGDX	2,740 (103.5)	P	X	Harbor Tug & Barge Co.....	Do.
Roosevelt.....	△	KFHN	375 (800), 425 (705), 500 (600).	PG	X	Washington Tug & Barge Co.....	Do.
Rosamond.....	△	WNCU	375 (800), 425 (705), 500 (600).	PG	X	North American Fisheries.....	R. M. C. A.
Rose City.....	△	WFDG	375 (800), 425 (705), 500 (600).	PG	X	Rose City S. S. Co.....	Owner.
Royal Arrow.....	△	WSCU	143 (2,100), 151 (1,985), 153 (1,966), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Standard Transportation Co.....	R. M. C. A.
Rudolph N.....	△	WIDQ	2,820 (123.3)	P	X	Nakat Packing Corporation.....	Owner.
Rustler.....	△	WKDW	375 (800), 425 (705), 500 (600).	P	X	Utican Towing Co.....	M. R. T. Co.
Ruth Alexander.....	△	WADW	375 (800), 425 (705), 500 (600).	PG	X	Dollar S. S. Lines (Inc.).....	R. M. C. A.
Ruth Kellogg.....	△	KDIP	375 (800), 425 (705), 500 (600).	PG	X	New York & Philippine S. S. Corporation.....	R. M. C. A.
Ruth Lykes.....	△	KOKS	375 (800), 425 (705), 500 (600).	PG	X	Lykes Bros. S. S. Co.....	Do.
R. W. Stewart.....	△	WPCL	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).	PG	X	Pan American Petroleum & Transport Co.....	Do.
Sabine.....	△	WICY	375 (800), 425 (705), 500 (600).	PG	X	Sabine Towing Co.....	Do.
Sabotawan.....	△	KIJJ	375 (800), 425 (705), 500 (600).	PG	X	Finkbine-Guild Transportation Co.....	Do.
Sacandaga.....	△	KESC	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—
Sacerappo.....	WG0I	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	South Atlantic S. S. Co.	R. M. C. A.
Sac City.....	KEFB	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Saco.....	WIDT	2,320 (129.3)	P	X	Nakat Packing Corporation	Owner.
Saco.....	KEPT	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Sagadahoc.....	KTUO	375 (800), 425 (705), 451 (600), 500 (600)	PG	X	Sagadahoc S. S. Corporation	Do.
Saginaw.....	KZIU	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Sage Brush.....	WJDI	375 (800), 425 (705), 500 (600)	PG	X	American Seacote Line (Inc.)	Do.
Saguache.....	KEKL	375 (800), 425 (705), 500 (600)	PG	X	Shepard S. Co.	Do.
Sahale.....	KEPR	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	M. R. T. Co.
Sablott.....	WODH		PG	X	American Seacote Line (Inc.)	
St. Louis.....	KDQX	274 (1,065), 375 (800), 500 (600)	P	X	Dr. H. F. Hornbeck	Owner.
Sally S.....	WIDM	2,320 (129.3)	P	X	Alaska Waterways Corporation	Do.
Salmon King.....	KGBA	375 (800), 425 (705), 500 (600), 2,320 (129.3)	PG	X	Alaska Pacific Salmon Corporation	Do.
Salt Lake City.....	WN1DL	375 (800), 410 (730), 425 (705), 500 (600), 1,592 (188.44)	PG	X	Cresby Fisheries	Do.
Salvador.....	KZBI	500 (600)	PG	X	New York Shipbuilding Co.	Do.
Salvager.....	KZBD	425 (705), 500 (600), 5,555 (54), 5,615 (53.71), 5,615 (53.428), 5,645 (53.144)	PG	X	Virginia Steamship Co.	Do.
Salvation Lass.....	KIMN	375 (800), 425 (705), 500 (600)	PG	X	Albion Gulf & Pacific Co.	Do.
Samar.....	KZAB	5,615 (53.428)	PG	X	Mississippi Shipping Co.	Do.
Samoa.....	KTUI	375 (800), 425 (705), 500 (600)	PG	X	Manila R. Co.	M. R. T. Co.
Samona.....	KGBF	500 (600), 2,740 (109.5)	PG	X	Hampden Lumber Co.	Owner.
Samuel L. Fuller.....	KDMS	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	P	X	W. J. Hoie	M. R. T. Co.
Samuel Mather.....	WTPBG	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705), 432 (705)	PG	X	Street Navigation Co.	Owner.
Samuel Mitchell.....	WBDC	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	P	X	Interlake S. S. Co.	R. M. C. A.
San Bernardino.....	KUDG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Huron Transportation Co.	Owner.
San Carlos.....	KUKJ	375 (800), 425 (705), 500 (600)	PG	X	Tide Water Oil Co.	R. M. C. A.
San Clemente.....	KORR	375 (800), 425 (705), 500 (600)	PG	X	Pacific-Atlantic S. S. Co.	Owner.
San Diego.....	KOLC	375 (800), 425 (705), 500 (600)	PG	X	do.	Stites S. S. Co.
Do.....	KUBF	375 (800), 425 (705), 500 (600)	PG	X	do.	Owner.
San Dimas.....	KDIF	375 (800), 410 (730), 425 (705)	PG	X	Tanon Navigation Co.	Do.
San Domingo.....	KIMX	375 (800), 410 (730), 425 (705)	PG	X	Pacific-Atlantic S. S. Co.	Do.
San Felipe.....	KEDR	375 (800), 425 (705), 500 (600)	PG	X	W. H. Wood	Do.
San Francisco.....	WDCY	375 (800), 425 (705), 500 (600)	PG	X	Construction Materials Co.	Do.
San Gabriel.....	WAGF	375 (800), 425 (705), 500 (600)	PG	X	Pacific-Atlantic S. S. Co.	Do.
San Isidro.....	KZCC	429 (700), 500 (600)	PG	X	do.	Do.
San Jacinto.....	WIIC	375 (800), 425 (705), 500 (600)	PG	X	U. S. Steel Products Co.	R. M. C. A.
San Jose.....	KDAJ	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	Pacific-Atlantic S. S. Co.	Owner.
			PG	X	Malloy S. S. Co.	R. M. C. A.
			PG	X	United Fruit S. S. Corporation	R. T. T. Co.

Santa Juan.....	WFCB	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 500 (600)	PG	N	New York & Porto Rico S. S. Co.	R. M. C. A.
Santa Julian.....	WCDD	375 (800), 425 (705), 500 (600)	PG	X	Pacific-Atlantic S. S. Co.	Owner
Santa Lorenzo.....	WFCE	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	New York & Porto Rico S. S. Co.	R. M. C. A.
Santa Lucas.....	KUPB	375 (800), 425 (705), 500 (600)	PG	X	Pacific-Atlantic S. S. Co.	Owner
Santa Marcos.....	KOTG	375 (800), 425 (705), 500 (600)	PG	X	do	Do
Santa Mateo.....	KDBE	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	United Fruit S. S. Corporation	T. R. T. Co.
Santa Pedro.....	KIDZ	375 (800), 425 (705), 500 (600)	PG	X	Pacific-Atlantic S. S. Co.	Owner
Do.....	WDDA	do	PG	X	Hammond Lumber Co.	R. M. C. A.
Santa Rafael.....	KOTR	do	PG	X	Pacific-Atlantic S. S. Co.	Owner
Santa Simeon.....	KOKB	do	PG	X	do	Do
Santa Ana.....	WNCY	do	PG	X	Orange Belt S. S. Co.	R. M. C. A.
Santa Barbara.....	WPBT	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Grace S. S. Co. (Inc.)	R. M. C. A.
Santa Cecilia.....	WBDW	do	PG	X	do	Do
Santa Cecilia.....	WNCO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Nautilus S. S. Co.	Do
Santa Clara.....	WMDR	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Grace S. S. Co. (Inc.)	Do
Santa Cruz.....	WMCP	do	PG	N	Atlantic & Pacific S. S. Co.	Do
Santa Elisa.....	KIGG	do	PG	N	Grace S. S. Co. (Inc.)	Do
Santa Eulalia.....	KDDY	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	American & Cuban S. S. Line	Do
Santa Flavia.....	KRUI	375 (800), 425 (705), 500 (600)	PG	X	Alaska Fisherman's Cooperative Packing Co.	Do
Santa Inez.....	WEDU	375 (800), 425 (705), 500 (600)	PG	X	Andrew F. Maloney	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), 425 (705), 468 (640), 500 (600)	PG	X	Grace S. S. Co. (Inc.)	R. M. C. A.
Santa Isabel.....	KDBV	375 (800), 425 (705), 500 (600)	PG	X	American & Cuban S. S. Line	Do
Santa Maria.....	KFTI	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	United Fruit S. S. Corporation	T. R. T. Co.
Do.....	WPBW	160 (1,875), 375 (800), 400 (750), 425 (705), 500 (600), 468 (640)	PG	N	Grace S. S. Co. (Inc.)	R. M. C. A.
Santa Maria.....	KDBI	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	United Fruit S. S. Corporation	T. R. T. Co.
Santa Rita.....	WIDG	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Grace S. S. Co. (Inc.)	R. M. C. A.
Santa Tecla.....	KNBE	375 (800), 425 (705), 500 (600)	PG	X	New Orleans & South American S. Co.	Do
Santa Teresa.....	WLIA	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Grace S. S. Co. (Inc.)	Do
Santa Veronica.....	KDHT	375 (800), 425 (705), 500 (600)	PG	X	American & Cuban S. S. Line	Do
Santa Dominga.....	KZDS	420 (700), 500 (600)	PG	X	Visayan Stevedore Transportation Co.	Owner
Santora.....	WQCC	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Oro S. S. Corporation	R. M. C. A.
San Vincente.....	KUQK	375 (800), 425 (705), 500 (600)	PG	X	Pacific-Atlantic S. S. Co.	R. M. C. A.
S. A. Perkins.....	KUTJ	do	PG	X	James Griffiths & Sons	Owner
Sapinero.....	KESG	do	PG	X	U. S. S. B.	R. M. C. A.
Saramacca.....	KDBK	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. Corporation	T. R. T. Co.
Saramar III.....	KGNS	do	PG	X	Charles T. Fisher	R. M. C. A.
Sarcovie.....	WLAA	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do
Sataria.....	KIDC	do	PG	X	do	Do
Do.....	WJDM	5,525 (54.3), 5,555 (54), 8,290 (36.19), 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.

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—
Saturn.....	WSBQ	375 (800), 400 (750), 425 (705), 468 (610), 500 (600)	PG	X	Bay State Fishing Co.	R. M. C. A.
Saucou.....	WQCO	375 (800), 410 (730), 425 (705)	PG	X	Bethlehem Transportation Corporation	Owner.
Saugerties.....	WNCV	375 (800), 425 (705), 500 (600)	PG	X	Mississippi Shipping Co. (Inc.)	M. R. T. Co.
Sawarka.....	KDBW	143 (2,100), 151 (1,985), 151 (1,960), 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.
Sayonara.....	KGQM	375 (800), 410 (730), 425 (705)	PG	X	Anthony J. Drexel	Owner.
S. B. Coolidge.....	WBDQ	375 (800), 400 (750), 425 (705)	PG	X	Pioneer S. S. Co.	R. M. C. A.
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.	Do.
Scantic.....	KILR	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Scheneclady.....	WJIU	do	PG	X	American Scantic Line (Inc.)	Do.
Schoelack.....	KEVT	do	PG	X	U. S. S. B.	Do.
Schoharie.....	KEVV	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	South Atlantic S. S. Co.	Do.
Schoodic.....	KIDQ	375 (800), 425 (705), 500 (600)	PG	X	Mississippi Shipping Co.	M. R. T. Co.
Scottsburg.....	KOML	do	PG	X	U. S. S. B.	R. M. C. A.
S. C. T. Dodd.....	KDML	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California	Do.
Sea.....	KPVE	do	PG	X	Bay State Fishing Co.	Do.
Seaborn.....	KFPX	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 468 (640), 500 (600), 525 (543), 8290 (36.19), 8,330 (36.01), 11,050 (27.15), 11,110 (27), 11,230 (26.71), 13,240 (22.66), 16,580 (18.04), 22,100 (13.575)	PG	X	Richard F. Howe	Do.
Seaforth.....	KFPZ	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 J. Matheson	Do.
Seagull.....	KFCW	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Portland-Trawling Co.	Do.
Sea Hawk.....	WHDA	375 (800), 400 (750), 410 (730), 425 (705), 464 (600), 468 (640), 500 (600)	PG	X	North Atlantic Trawling Corporation	Do.
Sea King.....	WDDX	375 (800), 425 (705), 500 (600)	PG	X	Ship Owners & 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	Do.
Sea Scout.....	KFGM	do	PG	X	do	Do.
Sea Saver.....	KDSY	do	PG	X	do	Do.
Sea Thrush.....	WBCW	do	PG	X	do	Do.
Seattle.....	KLST	do	PG	X	Shepard S. S. Co.	R. M. C. A.
Seattle Spirit.....	KLSD	do	PG	X	Tacoma Oriental S. S. Co.	Do.
Sealand.....	WJCT	375 (800), 410 (730), 425 (705)	PG	X	U. S. S. B.	Owner.
Selma.....	KIDT	375 (800), 425 (705), 500 (600)	PG	X	Cleveland & Buffalo Transit Co.	Do.
Selma City.....	KUGP	143 (2,100), 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. Steel Products Co.	R. M. C. A.
Seminole.....	KUGP	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	U. S. S. B.	Do.
Do.....	WNCX	375 (800), 425 (705), 500 (600)	PG	N	Cherokee-Seminole S. S. Corporation.	Do.
Senator Bailey.....	WJCM	do	PG	X	Gulf Refining Co.	Do.

RADIO STATIONS OF THE UNITED STATES

Seven Seas	WJDC	375 (800), 425 (705), 500 (600)	Inglis M. Uppercu	Do.
Sovernance	KXOE	do.	Diamond S. S. Transportation Co.	Do.
Swallows Point	WJGW	5,325 (54.3), 5,565 (54), 8,450 (35.5), 11,050 (27.15), 11,110 (27)	Mystic S. S. Co.	Owner.
Sevelyn	WQBD	500 (600), 5,525 (54.3), 5,565 (54), 8,450 (35.5)	Faul F. Johnson	Do.
Shadow-K	KFKT	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	Pennistar Terminal Co.	R. M. C. A.
Sharon	KFKK	375 (800), 425 (705), 500 (600)	Atlantic Terming Co.	Owner.
Shasta	KFKF	375 (800), 425 (705), 500 (600)	E. K. Wood Lumber Co.	Do.
Do.	WMDJ	5,525 (54.3), 5,565 (54), 8,330 (36.01)	Charles A. Landers, Lawrence Oliver & O. J. Gresser	R. M. C. A.
Shawnee	WOBG	143 (2,100), 151 (1,985), 153 (1,960), 166 (1,875), 375 (800), 425 (705), 500 (600)	New York & Miami S. S. Corporation.	R. M. C. A.
Shedrake	KUFK	375 (800), 400 (750), 425 (705), 500 (600)	Portland Trawling Co.	Do.
Sheldon	KDJJ	143 (2,100), 151 (1,985), 375 (800), 425 (705), 500 (600)	Tacomb Oriental S. S. Co.	Do.
Shennadoah	KIBD	375 (800), 425 (705), 500 (600)	Texas Co.	Do.
Shenando	WJDB	375 (800), 410 (730), 425 (705)	Shenango Furnace Co.	R. C. A.
Do.	WJDP	375 (800), 425 (705), 500 (600)	Gulf Refining Co.	R. M. C. A.
Shicksimny	KJZF	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	South Atlantic S. S. Co.	Do.
Shipping Board vessels (general call for all vessels)	KBSV		U. S. S. B.	Do.
Shooters Island	KERG	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	Am-Russ S. S. Corporation.	Do.
Siiala	WBDI	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)	A. N. Andrews	Do.
Siboney	WECZ	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	New York & Cuba Mail S. S. Co.	Do.
Sidney M. Hauptman	KUVD	375 (800), 425 (705), 454 (660), 500 (600)	Chas. R. McCormick Lumber Co.	Do.
Sierra	WBDR	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600)	Oceanic S. S. Co.	M. R. T. Co.
Do.	WKM	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	Arctic Transportation Co.	R. M. C. A.
Silverado	KFKI	375 (800), 425 (705), 500 (600)	Silverado S. S. Co.	Owner.
Silverosak	KOJG	do.	Clegg Ship Owning Corporation	R. M. C. A.
Silverspruce	KIGZ	do.	do.	Do.
Sinaloa	WGDC	125 (2,000), 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)	L. E. Hanchett	Do.
Siskiyou	KDAS	375 (800), 425 (705), 500 (600)	E. K. Wood Lumber Co.	Owner.
Sister	KGOC	2,524 (118.55), 2,550 (117.18), 2,584 (116.099)	Merritt-Chapman & Scott Corporation of California.	Do.
Sixadla	KDAQ	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)	United Fruit S. S. Corporation.	T. R. T. Co.
S. M. Spalding	WPCM	375 (800), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	Pan American Petroleum & Transportation Co.	R. M. C. A.
Sobre las Olas	WIDR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	John B. Miller	Do.
S. O. Co. No. 3	WMDQ	375 (800), 425 (705), 500 (600), 2,320 (120.3)	Far West Fisheries (Inc.)	Owner.
S. O. Co. No. 95	WOCI	375 (800), 425 (705), 454 (660), 500 (600)	Standard Oil Co. of California.	R. M. C. A.
Socony 91	WSCI	375 (800), 408 (750), 425 (705), 468 (640), 500 (600)	Standard Transportation Co.	Do.
Socony 82	KVAI	375 (800), 408 (750), 425 (705), 468 (640), 500 (600)	do.	Do.
Socony 83	KVAO	do.	do.	Do.
Socony 91	WTO	do.	do.	Do.
Solana	KDJQ	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600)	Associated Oil Co. of California.	M. R. T. Co.
Solitaire	KUMT	143 (2,100), 151 (1,985), 153 (1,960), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	Texas Co.	R. M. C. A.
Somerseset	WFCO	375 (800), 425 (705), 500 (600)	Merchants & Miners Transpn. Co.	Do.

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

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Sonoma.....	WBDT	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	N	Oceanic S. S. Co.	M. R. T. Co.
Sonora.....	KGAP	375 (800), 410 (730), 425 (705)	PG	X	Nicholson-Universal S. S. Co.	R. C. A.
Sorsogon.....	KZCB	500 (600), 571.4 (595)	PG	X	Ynchausti & Co.	Owner.
South American.....	WGCW	375 (800), 410 (730), 425 (705)	PG	N, X	Chicago Duluth & Georgian Bay Transit Co.	R. C. A.
Southern Cross.....	KDTZ	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600), 5,525 (84.3), 5,555 (84), 8,450 (85.5), 11,050 (27.15), 11,110 (27), 13,246 (22.66)	PG	N	Munson S. S. Line (Inc.)	R. M. C. A.
Southern Trader.....	KZEF	429 (700), 500 (600)	PG	X	Southern Transportation & Trading Co.	Owner.
Southland.....	KGOL	375 (800), 425 (705), 500 (600)	PG	X	Norfolk & Washington Steamboat Co.	R. M. C. A.
Spancer Kellogg.....	KIDR	2,740 (109.5)	P	X	New York & Philippine S. S. Corp.	Owner.
Sphinx.....	KGDC	2,320 (129.3)	P	X	W. R. Seagle	Do.
Spirit II.....	WMDN	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Palmer K. Leberman	Do.
Spray.....	KFKO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Bay State Fishing Co.	R. M. C. A.
Spray, III.....	KFKW	2,595 (115.56)	P	X	Henry B. Joy	Owner.
S. S. Thorpe.....	WNBG	274 (1,095), 375 (800), 500 (600)	PG	X	Inland Waterways Corporation.	Do.
Standard Arrow.....	WOCZ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.
Standard Oil Co. vessels (general call for all vessels)	WSCW	do.	PG	X	Standard Transportation Co.	Do.
Standard Oil Co. vessels (general call for all vessels)	KSOC	do.	PG	X	Standard Transportation Co.	Do.
Standard Service.....	KFSS	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California.	Do.
Stanley.....	KISI	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Stanley Dollar.....	WGD M	375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Dollar S. S. Lines (Inc.)	Owner.
Star of Alaska.....	KFOK	375 (800), 425 (705), 500 (600)	PG	X	Alaska Packers Association.	Do.
Star of England.....	KFOE	do.	PG	X	do.	Do.
Star of Holland.....	KFOG	do.	PG	X	do.	Do.
Star of Lapland.....	KFOA	do.	PG	X	do.	Do.
Star of Zealand.....	WQCF	do.	PG	X	do.	Do.
Star.....	WDDR	do.	PG	X	do.	Do.
Star of Virginia.....	WKDF	375 (800), 400 (750), 425 (705), 500 (600)	PG	N, X	San Juan Fishing & Packing Co.	R. M. C. A.
Star of Virginia.....	WVDF	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	PG	X	Baltimore Steam Packet Co.	Do.
S. T. Crapo.....	WDBA	375 (800), 425 (705), 500 (600)	P	X	Huron Transportation Co.	Owner.
Steelcraft.....	WDEO	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Steel Aigo.....	KOLZ	375 (800), 410 (730), 425 (705)	PG	X	U. S. Steel Products Co.	R. C. A.
Steel Electrician.....	KFVY	do.	PG	X	do.	Do.
Steel Electrician.....	KFVY	do.	PG	X	do.	Do.
Steel Engineer.....	KDZY	375 (800), 425 (705), 500 (600)	PG	X	do.	R. M. C. A.
Steel Exporter.....	KDDN	do.	PG	X	Isthmian S. S. Co. (Inc.)	Do.
Steel Inventor.....	KDIN	do.	PG	X	do.	Do.
Steelmaker.....	KOLV	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	U. S. Steel Products Co.	Do.
Steel Mariner.....	KOVK	375 (800), 425 (705), 500 (600)	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—
Surf.....	WPBL	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Bay State Fishing Co.	R. M. C. A.
Suriname.....	KDBO	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (690), 468 (640), 500 (600)	PG PG	N	United Fruit S. S. Corporation	T. R. T. Co.
Susan A. Moran.....	KFWX	375 (800), 425 (705), 500 (600)	PG	X	Tug Susan A. Moran	R. M. C. A.
Susan V. Luckenbach.....	WQLO	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Luckenbach S. S. Co.	R. M. C. A.
Swain.....	WPBM	375 (800), 400 (750), 425 (705), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875)	PG	X	Bay State Fishing Co.	R. M. C. A.
Swiftarrow.....	KDOS	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Boat Owning & Operating Co. (Inc.)	Do.
Swiftangle.....	KDRK	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 425 (705), 454 (690), 468 (640), 500 (600)	PG	X	do	Do.
Swiftlight.....	KDSA	143 (2,100), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 468 (640), 500 (600)	PG	X	do	Do.
Swift Scout.....	KDQV	do	PG	X	do	Do.
Swiftsure.....	KDNG	143 (2,100), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG PG	X	do	Do.
Swiftwind.....	KDSI	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 468 (640), 500 (600)	PG	X	do	Do.
Sylvan Arrow.....	WSCX	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Transportation Co.	Do.
Syvia.....	KGQD	375 (800), 425 (705), 500 (600)	PG	X	Logan G. Thomson	Do.
Syros.....	KDEC	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	U. S. S. B.	Do.
Tachira.....	KDKI	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Atlantic & Caribbean Steam Navigation Co.	Do.
Tacoma.....	KICN	375 (800), 425 (705), 500 (600)	PG	X	Tacoma-Oriental S. S. Co.	Owner.
Talayha.....	KGQV	5,525 (54.3), 11,050 (27.15), 11,110 (27)	P	X	Lazard Lippman	Do.
Tamahuia.....	WICU	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
Tampa.....	KOVX	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705)	PG	X, N	Southern Pacific Co.	Do.
Tanana.....	KUTG	375 (800), 425 (705), 500 (600)	PG	N, X	U. S. S. B.	Do.
Tashimoo.....	KOXD	375 (800), 425 (705), 500 (600)	PG	X	Alaska S. S. Co.	M. R. T. Co.
Tavornilla.....	KEMT	500 (600)	P	X	Charles Nelson Co.	R. M. C. A.
Teal.....	KOTC	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Panama Canal	Owner.
Telou.....	KUSK	375 (800), 425 (705), 500 (600)	PG	X	Portland Trawling Co.	R. M. C. A.
Tempress.....	WIDJ	14,240 (22.66), 16,580 (18.094), 16,800 (17.793), 375 (800), 425 (705), 500 (600), 5,525 (54.3), 8,290 (36.19), 11,050 (27.15), 11,120 (27.15)	P	N	Standard Transportation Co.	Do.
Tern.....	KUFQ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	S. F. B. Morse	Owner.
Texada.....	KDII	375 (800), 425 (705), 500 (600)	PG	X	Portland Trawling Co.	R. M. C. A.
Texan.....	WACU	375 (800), 425 (705), 454 (690), 500 (600)	PG	X	Kingsley Navigation Co. of California	M. R. T. Co.
Texas.....	KEFZ	375 (800), 425 (705), 500 (600), 5,525 (54.3), 8,250 (35.50), 11,050 (27.15), 11,230 (26.71), 16,680 (18.004), 16,600 (18.007)	PG	X	American-Hawaiian S. S. Co.	Do.
Do.....	WBCH	375 (800), 425 (705), 500 (600)	PG	X	States S. S. Co.	Do.
Texmar.....	KIFD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Texas Co.	R. M. C. A.
Do.....	KIFD	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Calmar S. S. Corporation	Do.

Call Letters	Frequency	Power	Station Name	City	Owner	Remarks
Thalassa	375 (800), 425 (705), 500 (600)	PG	Eugene Higgins		Marconi International Marine Communication Co.	
The Angeles	do	PG	do		do	
The Harvester	375 (800), 410 (730), 425 (705)	PG	U. S. S. R.		International Harvester Co.	
Theo	375 (800), 391 (760), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	James P. Parish		R. M. C. A. R. C. A.	
Theodore H. Wick	375 (800), 410 (730), 425 (705)	PG	American S. S. Co.		Owner.	
Theodore H. Wick	do	PG	do		do	
Theodore Roosevelt	375 (800), 394 (760), 410 (730), 425 (705)	PG	Chicago-Rosevelt S. S. Co.		R. C. A.	
Thermo	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	Thermo S. S. Co.		R. M. C. A.	
Thomas Briff	375 (800), 410 (730), 425 (705)	PG	Lakewood S. S. Co.		R. C. A.	
Thomas H. Wheeler	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	Standard Shipping Co.		R. M. C. A.	
Thomas P. Beal	do	PG	Mystic S. S. Co.		Do.	
Thomas Tracy	375 (800), 425 (705), 500 (600)	P	M. & J. Tracy (Inc.)		Owner.	
Thresher	2,320 (124.3), 5,925 (34.3), 5,555 (54)		Alaska Packers Association		R. M. C. A.	
Tide	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	Bay State Fishing Co.		Do.	
Tide	do	PG	Tidewater Oil Co.		Do.	
Tide	do	PG	Standard Transportation Co.		Do.	
Tide	do	PG	Hammond Lumber Co.		Do.	
Tillamook	375 (800), 425 (705), 500 (600)	PG	American Tug Boat Co.		Owner.	
Tillamook	do	PG	do		do	
Tillie Lykes	375 (800), 425 (705), 500 (600)	PG	Lykes Bros. S. S. Co.		R. M. C. A.	
Timberman	375 (800), 410 (730), 425 (705)	PG	Pillsbury & Curtis		Do.	
Tionesta	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 161 (1,875), 162 (1,875), 163 (1,875), 164 (1,875), 165 (1,875), 166 (1,875), 167 (1,875), 168 (1,875), 169 (1,875), 170 (1,875), 171 (1,875), 172 (1,875), 173 (1,875), 174 (1,875), 175 (1,875), 176 (1,875), 177 (1,875), 178 (1,875), 179 (1,875), 180 (1,875), 181 (1,875), 182 (1,875), 183 (1,875), 184 (1,875), 185 (1,875), 186 (1,875), 187 (1,875), 188 (1,875), 189 (1,875), 190 (1,875), 191 (1,875), 192 (1,875), 193 (1,875), 194 (1,875), 195 (1,875), 196 (1,875), 197 (1,875), 198 (1,875), 199 (1,875), 200 (1,875)	PG	Great Lakes Transit Corporation		R. C. A.	
Tives	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	United Fruit S. S. Corporation		T. R. T. Co.	
T. J. Williams	do	PG	do		do	
Telen	375 (800), 425 (705), 500 (600)	PG	Standard Shipping Co.		R. M. C. A.	
Tomalva	375 (800), 425 (705), 500 (600)	PG	United Fruit S. S. Corporation		R. M. C. A.	
Tong Yek	425 (705), 500 (600)	PG	U. S. S. B.		R. M. C. A.	
Toya Toya	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	Siy Cong Bieng & Co.		Owner.	
Toya Toya	do	PG	U. S. S. B.		R. M. C. A.	
Topila	375 (800), 425 (705), 500 (600)	PG	Southern Pacific Co.		Do.	
Toront	KFZP 1,596 (187.97)	P	City of Baltimore		Owner.	
Torres	375 (800), 425 (705), 500 (600)	PG	Southern Pacific Co.		R. M. C. A.	
Torres	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	Amondale Transportation Co.		Do.	
Tracy Brothers	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	Coastwise Transportation Co.		Do.	
Transportation	375 (800), 425 (705), 454 (660), 500 (600)	PG	Trimountain S. S. Corporation		Do.	
Trimountain	375 (800), 400 (750), 425 (705), 500 (600)	PG	Gulf Refining Co.		Do.	
Tribradlian	375 (800), 425 (705), 500 (600)	PG	U. S. S. B.		Do.	
Tripp	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800)	PG	United Fruit Corporation		T. R. T. Co.	
Triumph	do	PG	do		do	
Tropical Radio Tele	375 (800), 400 (750), 425 (705), 500 (600)	PG	Atlantic & Caribbean Steam Navigation Co.		R. M. C. A.	
graph Co. (general call for all vessels)	375 (800), 400 (750), 425 (705), 468 (740)	PG	South Atlantic S. S. Co.		Do.	
Trujillo						
Tulsa						

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—
Tulaseas	△ KDRZ	143 (2,100), 151 (1,985), 160 (1,875), 375 (800), 425 (705), 500 (600)	P	X	Associated Oil Co.	M. R. T. Co.
Turrintha	△ KDAU	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 400 (750), 425 (705), 454 (660), 500 (600)	P	N	United Fruit S. S. Corporation	T. R. T. Co.
Tuscaloosa	△ KFMI	274 (1,095), 375 (800), 500 (600)	P	X	Inland Waterways Corporation	Owner.
Tuscaloosa City	△ KDLO	375 (800), 425 (705), 500 (600)	P	X	U. S. Steel Products Co.	R. M. C. A.
Tuscan	△ KUDC	do	P	X	Merchants & Miners Transportation Co.	Do.
Tusitaha	△ KFSSQ	do	P	X	Ship Tusitaha, (Inc.)	Do.
Tustem	△ KDTW	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	P	X	Atlantic Refining Co.	Do.
T. W. Robinson	△ WDDB	143 (2,100), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	P	X	Bradley Transportation Co.	Owner.
Tyee	△ KFXP	375 (800), 425 (705), 500 (600)	P	X	Hubble Towing Co.	Do.
Do.	△ WDDM	do	P	X	Bellingham Tug & Barge Co.	Do.
Uliases	△ KZDR	400 (750), 500 (600)	P	X	Siy Cong Bieng & Co.	Do.
Ulua	△ WHDQ	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)	P	N	United Fruit S. S. Corporation	T. R. T. Co.
Ulysses	△ WHCT	500 (600)	P	X	Panama R. R. Co.	Owner.
Unicoi	△ KUQP	143 (2,100), 151 (1,985), 153, 157 (1,910), 160 (1,875), 375 (800), 425 (705), 500 (600)	P	X	U. S. S. B.	R. M. C. A.
Union	△ KZCJ	do	P	X	Vicente Madrigal	Owner.
United States lines (general call for all vessels)	△ KUSL	375 (800), 425 (705), 500 (600)	P	X	United States Lines	R. M. C. A.
Upshur	△ KOLZ	do	P	X	Merchants & Miners Transportation Co.	R. M. C. A.
Utacarbon	△ KUMC	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600)	P	X	Union Oil Co. of California	M. R. T. Co.
Utawana	△ KPFSH	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	P	X	Allison V. Armour	R. M. C. A.
Vacuum	△ KUTS	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 159 (1,885)	P	X	Vacuum Oil Co.	Do.
Vagabondia	△ WBSO	160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	P	X	W. L. Mellon	R. M. C. A.
Vanda	△ WGDS	125 (2,400), 127 (2,360), 129 (2,325), 131 (2,290), 133 (2,256), 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)	P	X	Ernest B. Dane	Do.
Veedel No. 2	△ KONE	375 (800), 425 (705), 500 (600)	P	X	Tidewater Associated Transp. Co.	Marconi I.
Vega	△ WLCV	do	P	X	Nelson B. Worden	M. C. Co.
Velero II	△ WBDY	do	P	X	G. Allan Hancock	M. R. T. Co.
Velma Lykes	△ KUFQ	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), 8,290 (36.19), 8,450 (35.5), 11,050 (27.15), 11,230 (26.71), 13,240 (22.66), 16,580 (18.094)	P	N	Lykes Bros. S. S. Co.	R. M. C. A.
Venezuela	△ WNCB	do	P	X	Panama Mail S. S. Co.	Do.
Ventura	△ WBDS	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 425 (705), 500 (600)	P	N	Oceanic S. S. Co.	M. R. T. Co.
Venus	△ KZAV	400 (750), 500 (600)	P	X	Ynchausti S. S. Co.	Owner.

RADIO STATIONS OF THE UNITED STATES

Do.....	△ WPBI	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705).			Interlake S. S. Co.....	R. C. A.
Vermat.....	△ KOPK	375 (800), 400 (750), 425 (705), 468 (640), 500 (600).		PG	Calmar S. S. Corporation.....	R. M. C. A.
Vesta.....	△ WSCZ	do.....		PG	Standard Transportation Co.....	Do.
Vicksburg.....	△ KDCS	274 (1,995), 375 (800), 500 (600).		P	Inland Waterways Corporation.....	Owner.
Victoria.....	△ WXYA	375 (800), 425 (705), 500 (600).		PG	Alaska S. S. Co.....	M. R. T. Co.
Victoriosa.....	△ WXXA	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).		PG	U. S. S. B.....	
Vigilant.....	△ KOZP	375 (800), 425 (705), 500 (600).		PG	City Mill Co.....	Owner.
Viking.....	△ WHDJ	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).		PG	George F. Baker, Jr.....	R. M. C. A.
Vilehnt.....	△ KQQS	375 (800), 425 (705), 500 (600).		PG	H. T. Horton.....	Do.
Vincent.....	△ KIZS	2,320 (129.3).		PG	U. S. S. B.....	Do.
Violet Ray.....	△ WKDM	375 (800), 425 (705), 500 (600).		PG	Far West Fisheries Co. (Inc.).....	R. M. C. A.
Virginia.....	△ WKCY	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), 5,525 (54.3), 8,290 (36.19), 8,330 (36.01), 8,450 (35.5), 11,050 (27.15), 11,230 (26.71), 13,240 (22.66).		PG	Texas Co.....	Do.
Do.....	△ WSBW	do.....		PG	American Lines S. S. Corporation.....	
Virginia E.....	△ WIDN	2,320 (129.3).		P	Alaska Pacific Salmon Corporation.....	Owner.
WACV.....	△ WACV	375 (800), 425 (705), 500 (600).		PG	American-Hawaiian S. S. Co.....	Do.
Virginian.....	△ KGOJ	500 (600).		PG	Simclair Navigation Co.....	Do.
Virginia Sinclair.....	△ KZDK	375 (800), 425 (705), 500 (600).		PG	U. S. S. B.....	Do.
Visayas II.....	△ KDJF	2,524 (118.85), 2,550 (117.18), 2,584 (116.099).		P	U. S. S. B.....	R. M. C. A.
Victorio Emanuel III.....	△ KGOD	375 (800), 425 (705), 500 (600).		PG	Wilmington Transportation Co.....	Owner.
Vivo.....	△ KZAT	315 (952), 500 (600).		PG	Washington S. S. Co.....	Do.
Vizcaya.....	△ KZAT	375 (800), 425 (705), 500 (600).		PG	W. L. Valentino.....	R. M. C. A.
Volador.....	△ KGAV	do.....		PG	U. S. S. B.....	Do.
Volunteer.....	△ WFAO	do.....		PG	M. Roberts & Miners Transpn. Co.....	Do.
Volusia.....	△ KUMV	do.....		PG	U. S. S. B.....	Do.
Waban.....	△ WBCU	375 (800), 394 (760), 410 (730), 425 (705).		PG	U. S. S. B.....	Do.
Wabash.....	△ WBDL	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).		PG	U. S. S. B.....	R. M. C. A.
Wacosta.....	△ KDLA	375 (800), 425 (705), 500 (600).		PG	U. S. S. B.....	Do.
Wairana.....	△ KFPT	do.....		PG	Los Angeles S. S. Co.....	Do.
Wallingford.....	△ KEPV	do.....		PG	Wallingford S. S. Co.....	Do.
Wallowa.....	△ WQDH	143 (2,100), 159 (1,885), 375 (800), 425 (705), 500 (600).		PG	Foss Co. (Inc.) S. S. Co.....	Do.
Walter A. Luckenbach.....	△ KJIE	375 (800), 425 (705), 500 (600).		PG	Luckenbach S. S. Co.....	R. M. C. A.
Walter D. Munson.....	△ WNCY	do.....		PG	Munson S. Line (Inc.).....	Owner.
Walter D. Noyes.....	△ WJCY	375 (800), 410 (730), 425 (705), 468 (640), 500 (600).		PG	Mystic S. S. Co.....	R. M. C. A.
Walter Jennings.....	△ KDPL	143 (2,100), 151 (1,985), 159 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600).		PG	Standard Shipping Co.....	Do.
Walter Miller.....	△ KDPS	do.....		PG	Continental S. S. Co.....	Do.
Walucia III.....	△ KFCS	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	Henry D. Walbridge.....	Do.
Wanderer.....	△ KFYG	do.....		PG	Merrill & Ring Lumber Co.....	Owner.
Wapama.....	△ WCDV	375 (800), 425 (705), 500 (600), 2,320 (129.3).		PG	Clairine C. Gillespie.....	Do.
Warbler.....	△ KDKR	do.....		PG	U. S. S. B.....	R. M. C. A.
Ward.....	△ KDQB	375 (800), 425 (705), 500 (600).		PG	do.....	Do.
Warrior.....	△ KFSX	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	Harrison Williams.....	Do.
Do.....	△ WHDO	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (640), 500 (600).		P	Tennessee Coal, Iron & R. R. Co.....	Owner.

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—
Warwick.....	△ KESK	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.
Washington.....	KDCB	375 (800), 425 (705), 500 (600)	PG	X	Texas Co. (Inc.)	R. M. C. A.
Do.....	KGMR	425 (705), 500 (600)	PG	X	New England Fish Co.	Owner.
Do.....	KIRF	375 (800), 425 (705), 500 (600)	PG	X	States S. S. Co.	Do.
Watertown.....	KING	do.	PG	X	Cities Service Transportation Co.	R. M. C. A.
Watsonville.....	WPUJ	375 (800), 400 (750), 410 (730), 425 (705), 454 (660), 468 (610), 500 (600)	PG	X	Hammund Lumber Co.	Do.
Waukegan.....	KIDX	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Way.....	KFYA	375 (800), 400 (750), 425 (705), 469 (640), 500 (600)	PG	X	Bay State Fishing Co.	Do.
Wawona.....	KGND	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
W. C. Teague.....	WCSB	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	Robinson Fisheries Co. (Inc.)	Owner.
W. D. Anderson.....	KDLC	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.
W. D. Caiverley, Jr.....	KDXS	do.	PG	X	Atlantic Refining Co.	Do.
W. E. Fitzgerald.....	WSBV	do.	PG	X	Pioneer S. S. Co.	Owner.
W. E. Hutton.....	KUMN	do.	PG	X	Chicago Navigation Co.	R. C. A.
West Alsea.....	KJJO	do.	PG	X	Pure Oil S. S. Co.	R. M. C. A.
West Amargosa.....	KEJS	do.	PG	X	U. S. S. B.	Do.
West Arroyo.....	KGVH	do.	PG	X	do.	Do.
West Cactus.....	KVVV	do.	PG	X	do.	Do.
West Cardoza.....	KODF	do.	PG	X	Pacific Argentine Brazil Line.	Do.
West Columb.....	KULT	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 160 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
West Carmak.....	KUST	do.	PG	X	do.	Do.
West Carrizo.....	KDBL	do.	PG	X	do.	Do.
West Compañero.....	KUFR	do.	PG	X	Pacific Argentine Brazil Line.	Do.
West Capitan.....	VXEO	do.	PG	X	American-West African Line.	Do.
West Caythorn.....	KILZ	do.	PG	X	McCormick S. S. Co.	Do.
West Coleron.....	WGCB	do.	PG	X	American-South African Line.	Do.
West Colina.....	KEZR	do.	PG	X	U. S. S. B.	Do.
West Chapala.....	KIPJ	do.	PG	X	do.	Do.
West Cheswald.....	KIKB	do.	PG	X	do.	Do.
West Chetac.....	KEKD	do.	PG	X	American-West African Line.	Do.
West Cobalt.....	KNAE	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
West Cohas.....	KEVD	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
West Corum.....	WGOU	do.	PG	X	Mississippi Shipping Co.	M. R. T. Co.
West Cressy.....	WGDU	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), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
West Cusseta.....	KDIK	do.	PG	X	do.	Do.
West Durfee.....	KIAI	375 (800), 425 (705), 500 (600)	PG	X	do.	Do.
West Eikonk.....	KQIU	do.	PG	X	do.	Do.
West Eleasco.....	WJOA	do.	PG	X	do.	Do.
West Eldara.....	WJOE	do.	PG	X	do.	Do.

RADIO STATIONS OF THE UNITED STATES

Call Letters	City	Frequency	Power	Class	Station Name	Owner
WBRS	Western	143 (2,100)	157 (1,910), 100 (1,875), 375 (800), 400 (750), 425 (705), 468 (810), 500 (600)	PG	do	do
WICA	Western Ocean	375 (800), 425 (705), 500 (600)		PG	North American Fruit & S. S. Corporation	R. M. C. A.
KGDK	Western Queen	143 (2,100), 157 (1,910), 375 (800), 394 (750), 410 (730), 425 (705)		PG	Detroit & Cleveland Navigation Co.	R. C. A.
WTCB	Western States	143 (2,100), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800)		PG	Motor Tankship Corporation	R. M. C. A.
KGOG	Western Sun	143 (2,100), 151 (1,985), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800)		PG	North American Fruit & S. S. Corporation	Do.
WLCM	Western Wave	143 (2,100), 151 (1,985), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	Munson S. S. Line (Inc.)	Do.
KDYI	Western World	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	U. S. S. B.	Do.
KQUU	West Gambo	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
WBDE	West Gobeniska	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
WGIA	West Grana	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
KEZM	West Harcarvar	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
KEDX	West Harclaway	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
KEFK	West Harshaw	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
KEZL	West Hemaitie	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
KOZK	West Hika	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
WFAA	West Hobonac	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
KDFFX	West Honakar	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
WZAE	West Humhaw	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	American-West African Line	Do.
KECX	West Imboden	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	U. S. S. B.	Do.
KOGL	West Ira	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	Pacific-Argentine-Brazil Line	Do.
KIPB	West Irmo	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	American-West African Line	Do.
KICQ	West Isleta	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
KOQQ	West Isleta	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	Pacific-Argentine-Brazil Line	Do.
KOCX	West Jaffrey	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	U. S. S. B.	Do.
KDAN	West Kebar	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	American-West African Line	Do.
KDAP	West Kedron	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
KISK	West Keene	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	U. S. S. B.	Do.
WJOU	West Kyska	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
WREA	West Lashaway	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
WJOI	West Lequassetek	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
WJOO	West Madaket	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
WTUU	West Mahomet	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
KUTC	West Mahwah	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	Pacific-Argentine-Brazil Line	Do.
KEBQ	West Maximus	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	U. S. S. B.	Do.
KEBQ	West Modus	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
KEBK	West Modus	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	Pacific-Argentine-Brazil Line	Do.
KIQC	West Moreland	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	U. S. S. B.	Do.
KOTK	West Neris	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
KUFJ	West Nilus	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	Mississippi Shipping Co.	M. R. T. Co.
KEFG	West Nohno	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	Pacific-Argentine-Brazil Line	R. M. C. A.
KEBQ	West Nosska	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
KEDAV	West Nosska	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	Pacific-Argentine-Brazil Line	Do.
KDAM	West Notus	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	U. S. S. B.	Do.
WMDK	West Pocasset	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
WROA	Westpool	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
WPEO	Westport	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.
KEDT	West Quebec	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 150 (1,885), 160 (1,875), 375 (800), 425 (705), 500 (600)		PG	do	Do.

RADIO DIVISION, DEPARTMENT OF COMMERCE

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—
West Saginaw	KOCV	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	M. R. T. Co.
West Selcova	KIPK	do	PG	X	Mississippi Shipping Co.	R. M. C. A.
West Selene	KIXZ	do	PG	X	U. S. S. B.	Do.
West Tacoma	KFCR	do	PG	X	do	Owner.
West Texas	KUMX	do	PG	X	Southern S. S. Co.	R. M. C. A.
West Totant	KFKX	do	PG	X	U. S. S. B.	Do.
Westward Ho	WGDJ	do	PG	X	do	Do.
West Wauna	WSUF	do	PG	X	do	Do.
West Zedra	WKUU	do	PG	X	do	Do.
West Burdell	KUGO	do	PG	X	do	Do.
W. F. White	WVDM	375 (800), 410 (730), 425 (705), 500 (600)	PG	X	Pure Oil S. S. Co.	Do.
W. G. Pollock	KFTM	375 (800), 410 (730), 425 (705)	PG	X	Bradley Transportation Co.	Owner.
W. H. Becker	KFTT	do	PG	X	Becker S. S. Co.	Do.
White Cap	KFKT	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	Do.
Whitney Olson	KFGS	375 (800), 425 (705), 500 (600)	PG	X	Ray State Fishing Co.	Do.
W. H. Libby	KDMT	375 (800), 400 (730), 425 (705), 468 (640), 500 (600)	PG	X	Oliver J. Olson & Co.	Do.
W. H. McGlean	WMTQ	375 (800), 410 (730), 425 (705)	PG	X	Standard Shipping Co. (Inc.)	R. M. C. A.
W. H. Tilford	WSCC	375 (800), 400 (730), 425 (705), 468 (640), 500 (600)	PG	X	Pioneer S. S. Co.	Owner.
Wichita	KDMU	143 (2,100), 151 (1,985), 157 (1,910), 159 (1,885), 160 (1,875), 375 (800), 410 (730), 425 (705), 454 (660), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.
Wichita Falls	KUNG	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Wildgeon	KOSB	do	PG	X	Southern S. S. Co.	Owner.
Wild Goose	KOTR	375 (800), 400 (730), 425 (705), 468 (640), 500 (600)	PG	X	Portland Trawling Co.	R. M. C. A.
Wildwood	KORV	do	PG	X	do	Do.
Wilhelmina	WMCU	do	PG	X	do	Do.
Williamette	WCDW	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	South Atlantic S. S. Co.	Do.
Willboro	KURM	375 (800), 425 (705), 500 (600)	PG	X	Matson Navigation Co.	Do.
Williet	KURM	375 (800), 425 (705), 454 (660), 500 (600)	PG	X	do	Do.
Williford	KDKS	375 (800), 425 (705), 500 (600)	PG	X	Chas. R. McCormick Lumber Co.	Owner.
Williford	KLTX	do	PG	X	Williams S. S. Co.	Do.
William A. McKenney	WJXZ	375 (800), 400 (730), 425 (705), 454 (660), 468 (640), 500 (600)	PG	X	U. S. S. B.	R. M. C. A.
William A. Paine	KDXZ	375 (800), 410 (730), 425 (705)	PG	X	Williams S. S. Co.	Owner.
William A. Reiss	WADI	do	PG	X	Mystic S. S. Co.	R. M. C. A.
William C. Awater	WADI	do	PG	X	Pioneer S. S. Co.	Owner.
Do.	WDDJ	do	PG	X	Reiss S. S. Co.	Do.
Do.	WFOU	do	PG	X	Wilson Transit Co.	Do.
William F. Humphrey	KDSR	375 (800), 425 (705), 500 (600)	PG	X	Fall River Navigation Co.	R. M. C. A.
William G. Mather	WADJ	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (730), 425 (705), 468 (640), 500 (600)	PG	X	Tide Water Associated Transportation Corporation.	Owner.
William Green	WPCN	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)	PG	X	Cleveland Cliffs S. S. Co.	R. M. C. A.
William H. Doheny	KDKG	do	PG	X	Pan American Petroleum & Transport Co.	Owner.
William H. Machen	KEGC	375 (800), 400 (730), 425 (705), 500 (600)	PG	X	do	R. M. C. A.
			PG	X	Pocahontas S. S. Co.	Do.
			PG	X	do	Do.

William Isom	WLCN	375 (800), 425 (705), 500 (600)	PG	X	Edwin B. DeCola	Do.
William J. Gaynor	KGQT	1,596 (187.9)	P	X	City of New York Fire Department	Owner.
William J. O'Brien	WHDJ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	R. O'Brien & Co.	R. M. C. A.
William K. Field	KFOV	375 (800), 410 (730), 425 (705)	PG	X	Reiss S. S. Co.	Owner.
William McLaughlin	WPBB	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 375 (800), 394 (750), 410 (730), 425 (705)	PG	X	Interlake S. S. Co.	R. C. A.
William Nelson	KFUA	375 (800), 410 (730), 425 (705)	PG	X	Paisley S. S. Co.	Do.
William N. Page	WFOO	375 (800), 425 (705), 500 (600)	PG	X	Mystic S. S. Co.	R. M. C. A.
William Penn	KDVG	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 100 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
William P. Snyder, Jr.	WPBZ	375 (800), 410 (730), 425 (705)	PG	X	Shenango Furnace Co.	R. C. A.
William T. Roberts	KDUJ	375 (800), 425 (705), 500 (600)	PG	X	American S. S. Co.	Owner.
Willkeno	WKII	do	PG	X	Williams S. S. Co.	Do.
Willmo	KIGF	do	PG	X	Seetomk Corporation	R. M. C. A.
Willpolo	KOBM	do	PG	X	Williams S. S. Co.	Do.
Willpigo	KUGB	do	PG	X	do	Do.
Willscow	WPAO	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 100 (1,875), 355 (845), 375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Wilson	WBCL	425 (705), 500 (600)	PG	X	Washington Tug & Barge Co.	Owner.
Winding Gulf	WFEE	375 (800), 425 (705), 500 (600)	PG	X	Mystic S. S. Co.	R. M. C. A.
Wind Rush	WJDK	do	PG	X	Shepard S. S. Co.	Do.
Winfred	WJCL	do	PG	X	Gulf Refining Co.	Do.
Winona County	KIZR	do	PG	X	U. S. S. B.	Do.
Winston-Salem	KUJS	do	PG	X	do	Do.
Winthrop	WFDY	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	R. O'Brien & Co. (Inc.)	Do.
Wisconsin	KEXM	375 (800), 425 (705), 500 (600)	PG	X	States S. S. Co.	Owner.
W. J. Hanna	KDKX	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Shipping Co.	R. M. C. A.
W. L. Connelly	WICV	do	PG	X	Sinclair Navigation Co.	Do.
W. L. Steed	WSEE	do	PG	X	Pan American Petroleum & Transport Co.	Do.
W. M. A. Lydon	KGCC	375 (800), 410 (730), 425 (705)	PG	X	G. J. Lakes Dredge & Dock Co.	R. C. A.
W. M. Burton	KMIU	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Atlantic Refining Co.	R. M. C. A.
W. M. Boyce Thompson	KDHS	do	PG	X	Standard Navigation Co.	Do.
W. M. G. Warden	WSCD	do	PG	X	Standard Shipping Co.	Do.
W. M. Irish	KJOE	do	PG	X	Atlantic Refining Co.	Do.
W. M. Rockefeller	KDYI	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.
W. M. Tupper	WADY	375 (800), 425 (705), 468 (640), 500 (600)	PG	X	Santa Ana S. S. Co.	Do.
W. R. Chamberlin, Jr.	WBDD	375 (800), 425 (705), 500 (600)	PG	X	W. R. Chamberlin & Co.	M. R. T. Co.
W. S. Miller	KDMR	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Standard Oil Co. of California	R. M. C. A.
W. S. Rheim	KDWP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	do	Do.
W. W. Bruce	WCDO	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Continental S. S. Co.	Do.
W. W. Mills	KDSS	375 (800), 400 (750), 425 (705), 500 (600)	PG	X	Pure Oil S. S. Co.	Do.
Wyandotte	WADR	143 (2,100), 151 (1,985), 157 (1,910), 375 (800), 394 (760), 410 (730), 425 (705)	P	X	Wyandotte Transportation Co.	Owner.
Wynoka	KFXI	274 (1,095), 375 (800), 500 (600)	P	X	Inland Waterways Corporation.	Do.
Wyoming	KQJJ	375 (800), 425 (705), 500 (600)	PG	X	Mccormick & Miners Transport. Co.	R. M. C. A.
Wytheville	KITL	do	PG	X	U. S. S. B.	Do.
Xarifa	WNBY	do	PG	X	Franklin M. Singer	Do.
Yaka	KDDF	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	M. R. T. Co.
Yale	WSCY	do	PG	X	Los Angeles S. S. Co.	R. M. C. A.
Do.	WTBT	do	PG	X	Whitman, Ward & Lee Co.	R. M. C. A.

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

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner	Message account settled by—
Yalza.....	KDJK	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.	R. M. C. A.
Yankee.....	WODZ	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Ocean Trawling Co.	Do.
Yankee Arrow.....	KDYG	do	PG	X	Standard Transportation Co.	Do.
Yapalaga.....	KDHR	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Yarmouth.....	KGAY	143 (2,100), 151 (1,985), 157 (1,910), 160 (1,875), 375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	N	Nova Scotia S. S. Corporation.	Do.
Yes Bay.....	KGNX	2,320 (129.31)	P	X	Alaska Pacific Salmon Corporation	Owner.
Yfaho.....	KZCV	400 (750), 500 (600)	PG	X	Rijos de I. de la Rama.	Do.
Yononichi.....	WFAI	143 (2,100), 151 (1,985), 153 (1,960), 157 (1,910), 159 (1,885), 160 (1,875), 175 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Yorba Linda.....	KDNS	143 (2,100), 151 (1,985), 153 (1,960), 160 (1,875), 375 (800), 425 (705), 500 (600)	PG	X	Standard Transportation Co.	M. R. T. Co.
York.....	KDKP	375 (800), 425 (705), 500 (600)	PG	X	Merchants & Miners Transport. Co.	R. M. C. A.
Yorkmar.....	KICP	375 (800), 400 (750), 425 (705), 468 (640), 500 (600)	PG	X	Calmar S. S. Corporation.	Do.
Yosemite.....	WDDT	375 (800), 410 (730), 425 (705)	PG	X	Fontana A. A. Co.	Owner.
Youngstown.....	KLFX	375 (800), 425 (705), 500 (600)	PG	X	U. S. S. B.	Do.
Do.....	WFBH	143 (2,100), 151 (1,985), 153 (1,960), 155 (1,935), 157 (1,910), 375 (800), 394 (750), 410 (730), 500 (600)	PG	X	Interlake S. S. Co.	R. C. A.
Yukon.....	WCCZ	375 (800), 425 (705), 500 (600)	PG	N	Alaska S. S. Co.	M. R. T. Co.
Yusingco.....	KZEH	453 (652), 500 (600)	PG	X	Pelagio Yu Singco	Owner.
Zaca.....	KGOM	do	PG	X	Templeton Crocker	Do.
Zacapa.....	KDCI	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 (600), 500 (600)	PG	N	United Fruit S. S. Corporation	T. R. T. Co.
Zareambo.....	KICS	do	PG	X	American-West African Line	R. M. C. A.
Zelda.....	WIDK	do	PG	X	North Atlantic Trawling Corporation.	Do.
ZR-3.....	KDMO	do	PG	X	Columbia River Smoked Fish Co.	Owner.

COMMERCIAL AIRCRAFT STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
Arf Pint.	KHIIR	333 (900), 375 (800), 414 (725), 457 (655), 500 (600).	P	X	Col. Robert R. McCormick.
Argentine	KHKQJ	333 (900), 375 (800), 500 (600), 2,662 (112.70), 5,690 (52.72).	P	X	New York, Rio & Buenos Aires Line (Inc.).
C-178E	KHLAZ	3,106 (96.59), 3,142 (95.48), 5,660 (53).	P	X	Pacific Air Transport (Inc.).
C-179E	KHLBY	do.	P	X	Do.
C-183E	KHJAZ	do.	P	X	Boeing Air Transport (Inc.).
C-184E	KHJNM	do.	P	X	Do.
C-185E	KHJMN	do.	P	X	Do.
C-187E	KHJIR	do.	P	X	Do.
C-188E	KHJLO	do.	P	X	Do.
C-189E	KHJJK	do.	P	X	Do.
C-190E	KHJKP	do.	P	X	Do.
C-191E	KHJEV	3,106 (96.59), 3,172 (94.57), 5,660 (53).	P	X	Do.
C-192E	KHJDW	3,106 (96.59), 3,142 (95.48), 5,660 (53).	P	X	Do.
C-224M	KHJOL	do.	P	X	Do.
C-225M	KHJPK	do.	P	X	Do.
C-226M	KHJSH	3,106 (96.59), 3,172 (94.57), 5,660 (53).	P	X	Do.
C-268	KHAFU	3,106 (96.59), 3,142 (95.48), 5,660 (53).	P	X	Do.
C-269	KHBAZ	do.	P	X	Do.
C-270	KHBBY	do.	P	X	Do.
C-272	KHBCX	do.	P	X	Do.
C-273	KHBDW	do.	P	X	Do.
C-274	KHBEV	do.	P	X	Do.
C-276	KHBTG	do.	P	X	Do.
C-277	KHBSH	do.	P	X	Do.
C-279	KHBJQ	do.	P	X	Do.
C-281	KHBKP	do.	P	X	Do.
C-283	KHBMN	2,506 (119.71), 4,188 (71.62), 5,585 (53.71), 3,106 (96.59), 3,142 (95.48), 5,660 (53).	P	X	Do.
C-284	KHBNM	3,106 (96.59), 3,142 (95.48), 5,660 (53).	P	X	Do.
C-285	KHBOL	do.	P	X	Do.
C-286	KHBPK	do.	P	X	Do.
C-287	KHBJQ	do.	P	X	Do.
C-288	KHBRI	do.	P	X	Do.
C-290	KHBTG	do.	P	X	Do.
C-291	KHBUF	do.	P	X	Do.
C-292	KHBEV	2,506 (119.71), 4,188 (71.62), 5,585 (53.71), 3,106 (96.59), 3,142 (95.48), 5,660 (53).	P	X	Do.
C-413E	KHJCX	3,106 (96.59), 3,142 (95.48), 5,660 (53).	P	X	Do.
C-415E	KHJBY	do.	P	X	Do.
C-417E	KHJQJ	do.	P	X	Do.
C-740K	KHLCX	do.	P	X	Pacific Air Transport (Inc.).
C-741K	KHLDW	do.	P	X	Do.
C-743K	KHLEV	do.	P	X	Do.
C-5340	KHLFU	do.	P	X	Do.
C-5389	KHLLGT	do.	P	X	Do.
C-5390	KHLHS	do.	P	X	Do.
C-7135	KHJHS	do.	P	X	Boeing Air Transport (Inc.).
C-7136	KHJGT	do.	P	X	Do.
C-7137	KHJFU	do.	P	X	Do.
City of Albuquerque.	KHDCX	333 (900), 375 (800), 393 (765), 400 (750), 414 (725), 420 (715), 457 (655), 1,624 (185), 2,344 (128), 3,106 (96.59).	P	X	Transcontinental Air Transport.
City of Columbus.	KHDHS	do.	P	X	Do.
City of Glendale...	KHIEFU	333 (900), 393 (765), 500 (600), 3,106 (96.59).	P	X	Slate Aircraft Corp.
City of Indianapolis.	KHIDGT	333 (900), 375 (800), 393 (765), 400 (750), 414 (725), 420 (715), 457 (655), 1,624 (185), 2,344 (128), 3,106 (96.59).	P	X	Transcontinental Air Transport.
City of Los Angeles.	KHDFU	375 (800), 400 (750), 414 (725), 420 (715), 457 (655), 1,624 (185), 2,344 (127.98), 3,106 (96.59).	P	X	Do.

COMMERCIAL AIRCRAFT STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—
Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
City of New York	KHIMN	8,650 (34.68)	P	X	John Henry Mears. Transcontinental Air Transport.
City of Philadelphia.	KHDKP	333 (900), 375 (800), 393 (765), 400 (750), 414 (725), 420 (715), 457 (655), 1,624 (185), 2,344 (128), 3,106 (96.59).	P	X	
City of St. Louis	KHJDQ	do.	P	X	Do.
City of Tacoma	KHIWD	8,290 (36.19)	P	X	John Buffelen.
City of Washington.	KHDDW	333 (900), 375 (800), 393 (765), 400 (750), 414 (725), 420 (715), 457 (655), 1,624 (185), 2,344 (128), 3,106 (96.59).	P	X	Transcontinental Air Transport.
City of Wichita	KHDEV	do.	P	X	Do.
Creole	KHICX	333 (900), 500 (600), 3,106 (96.59), 5,630 (53.29).	P	X	Southern Radio Corp.
Cuba	KHESH	333 (900), 375 (800), 414 (725), 457 (655), 500 (600), 3,106 (96.59), 3,070 (97.71), 5,525 (54.3), 5,690 (52.72), 8,290 (36.19), 11,050 (27.15).	PG	N	New York, Rio & Buenos Aires Line (Inc.).
Defender	KHIDW	1,040 (182.9), 3,106 (96.59), 5,570 (53.86).	P	X	Goodyear Tire & Rubber Co. (Inc.).
F-101	KHIAJQ	3,070 (97.71), 3,106 (96.59), 3,460 (86.70), 6,350 (47.24).	P	X	Western Air Express (Inc.).
F-102	KHAGT	do.	P	X	Do.
F-103	KHAIR	do.	P	X	Do.
F-104	KHCAZ	do.	P	X	Do.
F-105	KHCBY	do.	P	X	Do.
F-106	KHCCX	do.	P	X	Do.
F-107	KHCDW	do.	P	X	Do.
F-108	KHCEV	3,070 (97.71), 3,106 (96.59), 6,350 (47.24).	P	X	Do.
F-109	KHCFU	3,070 (97.71), 3,106 (96.59), 3,460 (86.70), 6,350 (47.24).	P	X	Do.
F-110	KHCGT	do.	P	X	Do.
F-111	KHCIS	do.	P	X	Do.
F-112	KHCIR	do.	P	X	Do.
F-113 W. A. E.	KHCVE	do.	P	X	Do.
F-114	KHCJQ	do.	P	X	Do.
F-115	KHCKP	do.	P	X	Do.
F-116 W. A. E.	KHCQJ	do.	P	X	Do.
Fleetster No. 2	KHKNM	375 (800), 500 (600), 2,662 (112.69), 3,070 (97.71), 5,690 (52.72).	P	X	New York, Rio & Buenos Aires Line (Inc.).
Fleetster No. 3	KHKRI	333 (900), 375 (800), 500 (600), 2,662 (112.70), 5,690 (52.72).	P	X	Do.
Fokker 2	KHCLO	3,070 (97.71), 3,106 (96.59), 6,350 (47.24).	P	X	Western Air Express (Inc.).
Fokker 3	KHCMN	do.	P	X	Do.
Haiti	KHEYB	333 (900), 375 (800), 500 (600), 3,106 (96.59).	P	X	New York, Rio & Buenos Aires Line (Inc.).
Havana	KHERI	333 (900), 375 (800), 414 (725), 457 (655), 500 (600), 3,070 (97.71), 3,106 (96.59).	P	X	Do.
Juneau	KHIFU	333 (900), 375 (800), 457 (655), 500 (600), 3,106 (96.59).	PG	X	Alaska Washington Airways (Inc.).
Ketchikan	KHIGT	do.	PG	X	Do.
Miami	KHKVE	do.	P	X	New York, Rio & Buenos Aires Line (Inc.).
NC-23V	KHINM	333 (900), 500 (600), 3,106 (96.59)	P	X	Southern Radio Corp.
NC-75K	KHFKP	333 (900), 375 (800), 414 (725), 457 (655), 500 (600), 2,662 (112.70), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72).			Pan American Airways (Inc.).
NC-86K	KHIGJQ	333 (900), 375 (800), 500 (600), 3,106 (96.59).	P	X	Curtiss Wright Flying Service.
NC-100K	KHEPK	3,106 (96.58).			R. H. Jackson, jr.
NC-106N	KHIEV	333 (900), 500 (600), 2,662 (112.69), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72).			Southern Radio Corp.
NC-107H	KHGEV	333 (900), 375 (800), 414 (725), 500 (600), 3,106 (96.59).	PG	N	Curtiss Wright Flying Service.
NC-109H	KHGFU	do.	PG	N	Do.
NC-110H	KHGT	do.	PG	N	Do.
NC-132H	KHGGX	333 (900), 375 (800), 457 (655), 500 (600), 3,106 (96.59).	PG	N	Do.
NC-133H	KHGDW	333 (900), 375 (800), 414 (725), 500 (600), 3,106 (96.59).	PG	X	Do.
NC-134H	KHGH8	do.	PG	N	Do.

COMMERCIAL AIRCRAFT STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—
Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
NC-142M	KHFNM	333 (900), 375 (800), 414 (725), 457 (655), 500 (600), 2,662 (112.70), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72).			Pan American Airways (Inc.).
NC-144M	KHPOL	333 (900), 414 (725), 500 (600), 2,662 (112.69), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72).	P	X	Do.
NC-145M	KHFPK	do	P	X	Do.
NC-146M	KHPQJ	do	P	X	Do.
NC-147H	KHPEV	333 (900), 375 (800), 414 (725), 457 (655), 500 (600), 2,662 (112.70), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72).			Do.
NC-182H	KHIAZ	3,106 (96.59).	P	X	Empire Air Transport Co.
NC-185H	KHMDW	375 (800), 393 (763), 400 (750), 414 (725), 420 (715), 457 (655), 1,624 (185), 2,344 (128), 3,106 (96.59).	P	X	Transcontinental Air Transport (Inc.).
NC-196H	KHGAZ	3,106 (96.59).	PG	X	Curtiss Flying Service.
NC-227M	KHJTG	3,106 (96.59), 3,172 (94.57), 5,660 (53).	P	X	Boeing Air Transport (Inc.).
NC-229M	KHJWD	do	P	X	Do.
NC-230M	KHJVE	do	P	X	Do.
NC-231E	KHAUF	333 (900), 414 (725), 500 (600), 3,070 (97.71), 5,690 (52.72), 8,015 (37.43).	P	X	Pan American Airways (Inc.).
NC-232M	KHJXC	3,106 (96.59), 3,172 (94.57), 5,660 (53).	P	X	Boeing Air Transport (Inc.).
NC-300N	KHIFRI	333 (900), 414 (725), 500 (600), 2,662 (112.69), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72).	P	X	Pan American Airways (Inc.).
NC-304N	KHIFSH	do	P	X	Do.
NC-306N	KHIFUF	333 (900), 414 (725), 500 (600), 2,662 (112.69), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72), 8,015 (37.43).	P	X	Do.
NC-309N	KHFVE	333 (900), 414 (725), 500 (600), 2,662 (112.69), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72).	P	X	Do.
NC-342N	KHIOL	3,106 (96.59).	P	X	Fokker Aircraft Corp. of America.
NC-395E	KHAWD	333 (900), 414 (725), 500 (600), 3,070 (97.71), 5,690 (52.72), 8,015 (37.43).	P	X	Pan American Airways (Inc.).
NC-396E	KHAXC	do	P	X	Do.
NC-454E	KHAEV	do	P	X	Do.
NR-496M	KHILO	333 (900), 375 (800), 393 (765), 400 (750), 414 (725), 420 (715), 457 (655), 500 (600).	P	X	William S. Brock.
NC-632M	KHKFU	do	P	X	New York, Rio & Buenos Aires Line (Inc.).
NC-633M	KHKGT	do	P	X	Do.
NC-634M	KHKIS	do	P	X	Do.
NC-725K	KHMEV	375 (800), 393 (763), 400 (750), 414 (725), 420 (715), 457 (655), 1,624 (185), 2,344 (128), 3,106 (96.59).	P	X	Transcontinento Air Transport (Inc.).
NC-726K	KHMFU	do	P	X	Do.
NC-793K	KHJRI	3,106 (96.59), 3,142 (95.48), 5,660 (53).	P	X	Boeing Air Transport (Inc.).
NC-800E	KHEMN	3,106 (96.59), 3,484 (86.10), 5,600 (53.57).	P	X	Universal Aviation Corp.
NC-805E	KHBY	do	P	X	Do.
NC-810H	KHFDW	333 (900), 500 (600), 2,662 (112.70), 3,070 (97.71), 5,690 (52.72).	P	X	Pan American Airways (Inc.).
NC-811H	KHFFU	333 (900), 375 (800), 414 (725), 457 (655), 500 (600), 2,662 (112.70), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72).			Do.
NC-812H	KHIFHS	do			Do.
NC-813H	KHFIJQ	333 (900), 375 (800), 414 (725), 500 (600), 2,662 (112.70), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72).			Do.
NC-814H	KHFIR	do	P	X	Do.
NC-842M	KHJUF	3,106 (96.59), 3,172 (94.57), 5,660 (53).	P	X	Boeing Airplane Co.
NC-945M	KHFWD	333 (900), 414 (725), 500 (600), 2,662 (112.70), 3,070 (97.71), 5,690 (52.72), 12,210 (24.57).	P	X	Pan American Airways (Inc.).

COMMERCIAL AIRCRAFT STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—
Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
NC-1612.....	KHACX	333 (900), 414 (725), 500 (600), 3,070 (97.71), 5,690 (52.72), 8,015 (37.43).	P	X	Pan American Airways (Inc.).
NC-3314.....	KHFBY	do	P	X	Do.
NC-5192.....	KHFCX	do	P	X	Do.
NC-5999.....	KHIIQI	3,106 (96.59)	P	X	Thompson Aeronautical Corp.
NC-7117.....	KHMAZ	375 (800), 393 (765), 414 (725), 2,344 (128).	P	X	TAT-Maddux Air Lines.
NC-7119.....	KHMBY	do	P	X	Do.
NC-7582.....	KHMCX	do	P	X	Do.
NC-7770.....	KHAYB	3,106 (96.59)	P		Thompson Aeronautical Corp.
NC-8000.....	KHAKP	333 (900), 414 (725), 500 (600), 3,070 (97.71), 5,690 (52.72), 8,015 (37.43).	P	X	Pan American Airways (Inc.).
NC-8020.....	KHAVE	do	P	X	Do.
NC-8022.....	KHGBY	3,106 (96.59)	PG	N	Curtiss Flying Service (Inc.).
NC-8031.....	KHHAY	3,106 (96.59), 3,484 (86.10), 5,600 (53.57).	P	X	S. A. T. Flying Service (Inc.).
NC-8043.....	KHEBY	3,106 (96.59)	P	X	Curtiss Flying Service (Inc.).
NC-8044.....	KHAPK	333 (900), 414 (725), 500 (600), 3,070 (97.71), 5,690 (52.72), 8,015 (37.43).	P	X	Pan American Airways (Inc.).
NC-8413.....	KHDZA	375 (800), 393 (765), 414 (725), 2,344 (128).	P	X	TAT-Maddux Air Lines.
NC-9107.....	KHASH	333 (900), 414 (725), 500 (600), 3,070 (97.71), 5,690 (52.72), 8,015 (37.43).	P	X	Pan American Airways (Inc.).
NC-9137.....	KHFAZ	333 (900), 375 (800), 414 (725), 457 (655), 500 (600), 2,662 (112.7), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72).	P	X	Do.
NC-9144.....	KHGIR	333 (900), 375 (800), 500 (600), 3,106 (96.59).	P	X	Curtiss Wright Flying Service (Inc.).
NC-9151.....	KHATG	333 (900), 414 (725), 500 (600), 3,070 (97.71), 5,690 (52.72), 8,015 (37.43).	P	X	Pan American Airways (Inc.).
NC-9157.....	KHECX	3106 (96.59)	P	X	Thompson Aeronautical Corp.
NC-9608.....	KHGNM	333 (900), 375 (800), 500 (600), 3106 (96.59).	P	X	Curtiss Wright Flying Service (Inc.).
NC-9609.....	KHIGOL	do	P	X	Do.
NC-9637.....	KHIAQJ	333 (900), 414 (725), 500 (600), 3,070 (97.71), 5,690 (52.72), 8,015 (37.43).	P	X	Pan American Airways (Inc.).
NC-9638.....	KHIDVE	375 (800), 393 (765), 414 (725), 2,344 (128).	P	X	TAT-Maddux Air Lines.
NC-9639.....	KHIDWD	do	P	X	Do.
NC-9640.....	KHDXC	do	P	X	Do.
NC-9641.....	KHIDYB	do	P	X	Do.
NC-9652.....	KHIDLO	375 (800), 400 (750), 414 (725), 420 (715), 457 (656), 1,624 (185), 2,344 (128), 3,106 (96.59).	P	X	Transcontinental Air Transport.
NC-9653.....	KHDMN	333 (900), 375 (800), 393 (765), 400 (750), 414 (725), 420 (715), 457 (656), 1,624 (185), 2,344 (128), 3,106 (96.59).	P	X	Do.
NC-9654.....	KHIDNM	do	P	X	Do.
NC-9655.....	KHDOL	do	P	X	Do.
NC-9656.....	KHDPK	do	P	X	Do.
NC-9657.....	KHDQJ	do	P	X	Do.
NC-9658.....	KHDRI	do	P	X	Do.
NC-9659.....	KHDSH	do	P	X	Do.
NC-9660.....	KHGTG	do	P	X	Do.
NC-9664.....	KHIDAW	333 (900), 414 (725), 500 (600), 3,070 (97.71), 5,690 (52.72), 8,015 (37.43).	P	X	Pan American Airways (Inc.).
NC-9670.....	KHFTG	333 (900), 414 (725), 500 (600), 2,662 (112.69), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72).	P	X	Do.
NC-9673.....	KHFXC	414 (725), 500 (600), 3,106 (96.59), 2,662 (112.7), 3,070 (97.71), 5,690 (52.72).	P	X	Do.
NC-9685.....	KHAHS	333 (900), 414 (725), 500 (600), 3,070 (97.71), 5,690 (52.72), 8,015 (37.43).	P	X	Do.
NC-9686.....	KHIDUF	375 (800), 393 (765), 414 (725), 2,344 (128).	P	X	TAT-Maddux Air Lines.

COMMERCIAL AIRCRAFT STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—
Continued

Name	Call signal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Licensee
NC-9688	KHFLO	333 (900), 375 (800), 414 (725), 457 (655), 500 (600), 2,662 (112.70), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72).			Pan American Airways (Inc.).
NC-9701	KHAOL	333 (900), 414 (725), 500 (600), 3,070 (97.71), 5,690 (52.72), 8,015 (37.43).	P	X	Do.
NC-9703	KIHARI	333 (900), 375 (800), 414 (725), 457 (655), 500 (600), 2,662 (112.7), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72).	P	X	Do.
NC-9735	KHGMM	333 (900), 375 (800), 500 (600), 3,106 (96.59).	P	X	Curtiss Wright Flying Service (Inc.).
NC-9751	KHGLG	3,106 (96.58).	P	X	Do.
NC-9775	KHAAZ	333 (900), 414 (725), 500 (600), 3,070 (97.71), 5,690 (52.72), 8,015 (37.43).	P	X	Pan American Airways (Inc.).
NC-9776	KHABY	do.	P	X	Do.
NC-9779	KHRCX	375 (800), 500 (600), 3,106 (96.59).	P	X	Radiomarine Corp. of America.
NC-9780	KHIGKP	3,106 (96.59).	P	X	Curtiss Wright Flying Service (Inc.).
NC-9784	KHITG	do.	P	X	Thompson Aeronautical Corp.
New York	KHKLO	333 (900), 375 (800), 500 (600), 3,106 (96.59).			New York, Rio & Buenos Aires Line (Inc.).
No. 51 W. A. E.	KHCSH	3,070 (97.71), 3,106 (96.59), 3,460 (86.70), 6,350 (47.24).	P	X	Western Air Express (Inc.).
No. 52 W. A. E.	KHCTG	do.	P	X	Do.
No. 53 W. A. E.	KHCUF	do.	P	X	Do.
No. 400 W. A. E.	KHCNMM	do.	P	X	Do.
No. 401 W. A. E.	KHCOL	do.	P	X	Do.
No. 402 W. A. E.	KHCPC	do.	P	X	Do.
NR-9696	KHIRI	do.	P	X	Do.
111N	KHIPK	3,106 (96.58).	P	X	New Haven-Buenos Aires Flight (Inc.).
Pan American Airways (general call for all stations).	WPAN				Thorne Donnelley.
Port of Spain	KHEZA	333 (900), 375 (800), 500 (600), 3,106 (96.59).	P	X	Pan American Airways (Inc.).
Porto Rico	KHKUF	333 (900), 375 (800), 500 (600), 2,662 (112.70), 3,070 (97.71), 5,690 (52.72).	P	X	New York, Rio & Buenos Aires Line (Inc.).
Rio De La Plata	KHKBY	333 (900), 375 (800), 500 (600), 3,106 (96.59).	P	X	Do.
San Juan	KHETG	333 (900), 375 (800), 414 (725), 457 (655), 500 (600), 3,070 (97.71), 3,106 (96.59).	P	X	Do.
Santos	KHKMN	375 (800), 500 (600), 2,662 (112.69), 3,070 (97.71), 5,690 (52.72).	P	X	Do.
The Blue Streak	KHEHS	333 (900), 375 (800), 500 (600), 3,106 (96.59), 5,525 (54.3).	P	X	Chicago Daily News (Inc.).
The City of New York	KHDAZ	375 (800), 393 (765), 400 (750), 414 (725), 420 (715), 457 (655), 1,624 (185), 2,344 (128), 3,106 (96.59).	P	X	Transcontinental Air Transport.
The Kansas City	KHDBY	333 (900), 375 (800), 393 (765), 400 (750), 414 (725), 420 (715), 457 (655), 2,344 (128), 1,624 (185), 3,106 (96.59).	P	X	Do.
The New Arbella	KHIJQ	3,106 (96.58).			B. W. Wentworth Emmons.
Three Johns	KHELO	333 (900), 375 (800), 414 (725), 500 (600).	P	X	John Hertz.
Travel Air	KHIKP	3,106 (96.59).			Empire Air Transport Co.
Trinidad	KHKPK	333 (900), 375 (800), 500 (600), 3,070 (97.71), 3,106 (96.59), 5,690 (52.72).	P	X	New York, Rio & Buenos Aires Line (Inc.).
Uruguay	KHKOL	375 (800), 500 (600), 2,662 (112.69), 3,070 (97.71), 5,690 (52.72).	P	X	Do.
Washington	KHEDW	333 (900), 375 (800), 414 (725), 457 (655), 500 (600), 3,106 (96.59).	P	X	Do.
X-118E	KHEIR	333 (900), 375 (800), 414 (725), 457 (655), 500 (600), 3,106 (96.59).	P	X	Skylines (Inc.).
X-657M	KHKIR	333 (900), 375 (800), 500 (600), 3,106 (96.59).	P	X	New York, Rio & Buenos Aires Line (Inc.).
Yankee Doodle	KHKTG	8,650 (34.68).	P	X	Willard F. Hollman-Arthur C. Goebel.

GOVERNMENT LAND RADIO STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Aberdeen Proving Grounds, Md.	FX	WUN	200 (1,500), 229 (1,310)	O	Y	U. S. Army,
Alognak, Alaska	FX	WWT	250 (1,200), 500 (600)	O	X	Department of Commerce, Bureau of Fisheries.
Arkiak, Alaska	FX	WVF	500 (600), 705 (425)	O	X	Department of Interior, Bureau of Education.
Albany, N. Y.	FA, FX	WVAH	230 (1,305), 320 (940), ¹ 3,370 (87), 3,380 (88.8), 5,430 (50.59), <i>5,940 (50.51)</i>	O	N	Department of Commerce, Bureau of Lighthouses.
Amrose Channel Lightship, N. Y.	FC	WRG	375 (800), 410 (730), 500 (600)	O ²	(³)	Do.
Anacortes, Wash. (section base 12)	NOK			O		U. S. Coast Guard.
Anacostia, D. C.	NSF			O		U. S. Navy.
Anchorage, Alaska	FX	WKE	200 (1,500), 475 (630), 4,310 (69.61)	PR	Y	U. S. Army.
Annapolis, Md. (Naval Academy)	FC	NAK		O		U. S. Navy.
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), ¹ 500 (600)	PG	N	Do.
Aka Island, Alaska	FX	WJI		O	X	Department of Interior, Bureau of Education.
Atlanta, Ga.	FA, FX	WHZ	235 (1,275), 236 (1,130), ¹ 3,370 (87), 3,400 (88.2), 5,920 (50.68), <i>5,940 (50.51)</i>	O	N	Department of Commerce, Bureau of Lighthouses.
Atlanta, Ga. (sixth district, U. S. N. R.)	FX	NDJ		O	X	U. S. Navy.
Augusta, Me. (first district, U. S. N. R.)	FX	NDR				Do.
Bahama, Canal Zone, radio (Darrien)	FC, FX	NBA	46 (6,518), ¹ 102 (2,939), 143 (2,100), 500 (600)	PG	N	Do.
Bahama, Canal Zone (fifteenth district, U. S. N. R.)	FC	NDG		O		Do.
Bahama, Canal Zone (control)	FC, FX	NFD		O		Do.
Baltimore, Md. (fifth district, U. S. N. R.)	FX	NDE		O	X	Do.
Barataria, La. (Grande Isle)	FC	NOC		O		U. S. Coast Guard.
Bar Harbor, Me. radio	FC	NBD	122 (2,460), 143 (2,100), 500 (600)	PG	N	U. S. Navy.
Barneget Lightship, N. J.	FC	WLA	410 (730), 500 (600)	O ¹		Department of Commerce, Bureau of Lighthouses.
Bellefonte, Pa.	FA, FX	WVQ	214 (1,400), 302 (995), ¹ 3,370 (87), 3,380 (88.8), 5,430 (50.59), <i>5,940 (50.51)</i>	O	N	Do.
Bellevue, D. C.	FX	NKF	639 (455)	O		U. S. Navy.
Bethel, Alaska	FX	WXI		PR	Y	U. S. Army.
Biloxi, Miss. (section base 15)	FC	NOI		O		U. S. Coast Guard.
Block Island, R. I.	FC	NMD		O		Do.
Blunts Reef Lightship, Calif.	FC	KCM	375 (800), 410 (730), 500 (600)	O ¹	(³)	Department of Commerce, Bureau of Lighthouses.

RADIO STATIONS OF THE UNITED STATES

Boise, Idaho.....	FA, FX	KCR	240 (1,250), 308 (975), 1,370 (89), 3,405 (88.11), 5,940 (50.51), 5,955 (50.56)	0	N	Do.
Bolling Field, D. C. (Anacostia).....	FA, FX	WYB	200 (1,500)	0	N	U. S. Army, Department of Commerce, Bureau of Lighthouses.
Boston Lightship, Mass.....	FC	WFO	375 (800), 410 (730), 500 (600)	0	(3)	U. S. Navy, Department of Commerce, Bureau of Lighthouses.
Boston, Mass.....	FA, FX	NAD	102 (2,930) ⁹	0	N	U. S. Navy, Department of Commerce, Bureau of Lighthouses.
Do.....	FA, FX	WSX	220 (1,304), 254 (1,180), 1,340 (80.8), 3,570 (89), 5,925 (50.63), 5,940 (50.51)	0	Y	U. S. Navy, Department of Commerce, Bureau of Lighthouses.
Do.....	FX	WVO	212 (1,416), 223 (1,345), 4,445 (67.40), 6,990 (42.92), 8,890 (33.50)	0	Y	Do.
Bowman Field, Ky. (Louisville).....	FA, FX	WYV	200 (1,500)	0	Y	Do.
Brownsville, Tex.....	FC	NAY	104 (2,883) ¹⁰	0	N	U. S. Navy, Department of Commerce, Bureau of Lighthouses.
Bryan, Ohio.....	FA, FX	KRL	244 (1,400), 320 (940), 1,370 (89), 3,350 (88.8), 5,930 (50.50), 5,940 (50.51)	0	N	U. S. Coast Guard, Department of Commerce, Bureau of Lighthouses.
Buffalo, N. Y. (See Williamsville, N. Y.).....	FC	NOR	200 (1,500)	0	Y	U. S. Army.
Burgess Field, Pa. (Uniontown).....	FA, FX	WYL	200 (1,500)	0	Y	U. S. Army.
Candlen, N. J. (fourth district U. S. N. Y.).....	FA, FX	NDM	212 (1,415)	0	Y	U. S. Army.
Camp Stevens, Mass. (Ayer).....	FX	WUA	234 (1,280), 4,090 (73.35), 8,180 (36.67)	0	Y	Do.
Camp Harry J. Jones, Ariz. (Douglas).....	FX	WZM	187 (1,605)	0	Y	Do.
Camp John Hay, P. I.....	FX	WZY	220 (1,605), 4,305 (69.05), 8,610 (34.84)	0	Y	Do.
Camp Knox, Ky.....	FX	WVY	232 (1,285)	0	Y	Do.
Camp McClellan, Ala. (Anniston).....	FX	WUR	232 (1,285), 445 (675)	0	Y	Do.
Camp Nichols, P. I. (Rizal).....	FA, FX	WYT	600 (450)	0	Y	Do.
Camp Stephen D. Little, Ariz. (Nogales).....	FA, FX	WZL	224 (1,280), 4,090 (73.35), 8,180 (36.67)	0	Y	Do.
Camp Stotsenburg, P. I.....	FX	WZN	187 (1,605)	0	Y	Do.
Cape Decision, Alaska.....	FX	KCB	410 (730), 500 (600)	0	X	Department of Commerce, Bureau of Lighthouses.
Cape Henry, Va.....	FC	NMM	410 (730), 500 (600)	0	(1)	U. S. Coast Guard, Department of Commerce, Bureau of Lighthouses.
Cape Lookout Shoals Lightship, N. C.....	FC	WRY	112 (2,677), 500 (600)	PG	X	U. S. Navy, Department of Commerce, Bureau of Lighthouses.
Cape Mala, Canal Zone, radio.....	FC	NGR	500 (600), 750 (400), 870 (345), 1,010 (297), 1,172 (256)	0	X	U. S. Coast Guard, Department of Commerce, Bureau of Lighthouses.
Cape May, N. J.....	FC	NOV	375 (800), 410 (730), 500 (600)	0	X	Do.
Cape Sarichef Light Station, Alaska.....	FC, FX	KCA	500 (600), 750 (400), 870 (345), 1,010 (297), 1,172 (256)	0	X	U. S. Navy, Department of Commerce, Bureau of Lighthouses.
Cape Spencer Light Station, Alaska.....	FC	KCC	375 (800), 410 (730), 500 (600)	0	X	Do.
Cape St. Elias Light Station, Alaska.....	FC	KCD	375 (800), 410 (730), 500 (600)	0	X	Do.
Cavite, P. I. (Los Banos).....	FC	NFB	56 (5,254), 11,12, 13, 108 (2,776), 11, 12, 13, 8,872 (33.91), 11, 12, 13, 13,308 (24.64), 11, 11, 11	0	X	Do.
Do.....	FC	NFO	56 (5,254), 11, 12, 13, 108 (2,776), 11, 12, 13, 8,872 (33.91), 11, 12, 13, 13,308 (24.64), 11, 11, 11	0	X	Do.
Chanute Field, Ill. (Rantoul).....	FA, FX	WYJ	200 (1,500)	0	Y	U. S. Navy.
Charleston, S. C., radio.....	FC	NAO	222 (2,458), 1 ¹ , 500 (600)	PG	N	U. S. Army.
Cheboygan Range, Mich.....	FX	WWG	3,410 (88)	0	X	Department of Commerce, Bureau of Lighthouses.
Chesapeake Lightship, Va.....	FC	WRS	375 (800), 410 (730), 500 (600)	0	(1)	Do.
Cheyenne, Wyo.....	FA, FX	KSG	240 (1,250), 326 (920), 1,370 (89), 3,390 (88.5), 5,940 (50.51), 5,950 (50.42), 8,110 (36.99), 12,166 (24.66)	0	N	Do.

See footnotes on p. 107.

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Chicago, Ill.	FX	WVT	220 (1,365), 232 (1,280), 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, P. I. (Camp Stotsenburg)	FA, FX	WYS	666 (450)	O	Y	Do.
Cleveland, Ohio	FA, FX	WVO	214 (1,400), 344 (870), 1,370 (89), 3,350 (88.8), 5,930 (50.69), 5,940 (50.51)	O	N	Department of Commerce, Bureau of Lighthouses.
Coco Solo, Canal Zone	FC	NBC	132 (2,271), 513 (500)	PG	N	U. S. Navy.
Colon, Canal Zone Radio	FC	NAX	375 (800), 410 (730), 500 (600)	O ²	(¹)	Do.
Columbia River Lighthouse, Oreg.	FC	KCK		O ²	(¹)	Department of Commerce, Bureau of Lighthouses.
Cordova, Alaska Radio	FC	NPA	106 (2,828), 500 (600)	PG	N	U. S. Navy.
Cordova, Alaska	FC	WTV	220 (1,365)	PR	Y	U. S. Army.
Cornfield Point Lighthouse, Conn.	FC	WFX	410 (730), 500 (600)	O ²	(¹)	Department of Commerce, Bureau of Lighthouses.
Craig, Alaska	FX	WXO	480 (625), 618 (483), 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, Calif. (Presidio of San Francisco)	FA, FX	WZZ	200 (1,500), 220 (1,365)	O	Y	U. S. Army.
Cumberland Field, Md. (Cumberland)	FA, FX	WYL	200 (1,500)	O	Y	Do.
Curtis Bay, Md.	FC	NOD		O		U. S. Coast Guard.
Dahlgren, Va.	FX	NDY		O		U. S. Navy.
David National Airport, David, Republic of Panama	FA, FX	NEB	5,540 (54.15), 9,375 (32)	O		Do.
Dayton, Ohio (Wright Field)	FA, FX	WYD	209 (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	3,410 (88)	O	X	Do.
Diamond Shoals Lighthouse, N. C.	FA, FX	WRV	375 (800), 410 (730), 500 (600)	O	(¹)	Do.
Dixon, Tex.	FA, FX	WXY	200 (1,500)	O	Y	U. S. Army.
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), 500 (600)	PG	N	U. S. Army.
Elke, Nev.	FA, FX	KOJ	200 (1,500), 314 (953), 1,330 (88.3), 3,370 (89), 5,920 (50.69), 5,930 (50.51)	O	N	Department of Commerce, Bureau of Lighthouses.
Eureka, Calif. Radio	FC	NPW	108 (2,776), 500 (600)	PG	N	U. S. Navy.
Fairbanks, Alaska	FC	WXP	81 (3,705), 500 (600)	PR	Y	U. S. Army.
Fenwick Island Shoal Lighthouse, Del.	FC	WRN	375 (800), 410 (730), 500 (600)	O ²	(¹)	Department of Commerce, Bureau of Lighthouses.
Fernandina, Fla. (section base 20)	FC	NOQ		O	(¹)	U. S. Coast Guard.
Fire Island Lighthouse, N. Y.	FC	WPZ	375 (800), 410 (730), 500 (600)	O	(¹)	Department of Commerce, Bureau of Lighthouses.
Five Fathom Bank Lighthouse, N. J.	FC	WRE	do	O	(¹)	Do.

Station Name	FC	KCE	do.	0	X	Do.
Five Finger Island Light Station, Alaska						
Fort Adams, R. I. (Newport)	FX	WUU	212 (1,415)	0	Y	U. S. Army.
Fort Barrancas, Fla. (Pensacola)	FX	WZD	232 (1,295)	0	Y	Do.
Fort Benjamin Harrison, Ind. (Indianapolis)	FX	WVS	192 (1,565)	0	Y	Do.
Fort Benning, Ga. (Columbus)	FX	WUO	212 (1,415)	0	Y	Do.
Fort Bliss, Tex. (El Paso)	FX	WZO	78 (3,845), 4,060 (73.35), 8,180 (36.67)	0	Y	Do.
Fort Brady, Mich. (Sault Ste. Marie)	FX	WTH	210 (1,430)	0	Y	Do.
Fort Bragg, N. C. (Fayetteville)	FX	WZG	200 (1,500), 219 (1,370), 6,990 (42.92)	0	Y	Do.
Fort Brown, Tex. (Brownsville)	FX	WUZ	234 (1,280), 4,000 (73.35), 8,180 (36.67)	0	Y	Do.
Fort Clark, Tex. (Brackettville)	FX	WZB	do.	0	Y	Do.
Fort Crockett, Tex. (Galveston)	FA, FX	WUX	185 (1,625), 200 (1,500), 4,050 (73.35)	0	Y	Do.
Fort D. A. Russell, Tex.	FX	WUG	192 (1,565), 4,090 (73.35), 8,180 (36.67)	0	Y	Do.
Fort De Lesseps, Canal Zone	FX	WLA	750 (400)	0	Y	Do.
Fort Des Moines, Iowa (Des Moines)	FX	WZT	445 (675)	0	Y	Do.
Fort Douglas, Utah (Salt Lake City)	FX	WVX	192 (1,565), 4,090 (74.45), 8,050 (37.22)	0	Y	Do.
Fort Duane, Pa. (Rizal)	FX	WTE	471 (638)	0	Y	Do.
Fort Eberle, Alaska	FX	WTO	681 (440)	PR	Y	Do.
Fort Ethan Allen, Vt. (Essex Junction)	FX	WUX	212 (1,415)	0	Y	Do.
Fort Gastis, Va.	FX	WUD	210 (1,430), 229 (1,310)	0	Y	Do.
Fort Francis E. Warren, Wyo.	FX	WVV	192 (1,565), 4,090 (73.35), 8,180 (36.67)	0	Y	Do.
Fort George G. Meade, Md.	FX	WUK	229 (1,310)	0	Y	Do.
Fort George Wright, Wash.	FX	WUE	220 (1,365), 4,030 (74.44), 8,060 (37.22)	0	Y	Do.
Fort Gibson, Alaska (Tahama)	FX	WXS	500 (600), 624 (570)	PR	Y	Do.
Fort Grant, Canal Zone	FX	WZY	173 (1,735), 606 (450), 740 (400)	0	Y	Do.
Fort Hancock, N. J. (Highland Beach)	FX	WUB	232 (1,295)	0	Y	Do.
Fort Hayes, Ohio (Columbus)	FX	WVZ	209 (1,435), 4,080 (73.53), 6,990 (42.92), 8,160 (36.76), 12,240 (24,51)	0	N	Do.
Fort H. G. Wright, N. Y.	FX	WUC	212 (1,415)	0	Y	Do.
Fort Howard, Md. (Baltimore)	FX	WVO	172 (1,745), 6,990 (42.92)	0	Y	Do.
Fort Huachuca, Ariz.	FX	WZI	185 (1,625), 4,090 (73.35), 8,150 (36.67)	0	Y	Do.
Fort Kaneohe, Hawaii (Honolulu)	FX	WTO	186 (1,625)	0	Y	Do.
Fort Lauderdale, Fla.	FC	NMV		0	N	U. S. Coast Guard.
Fort Leavenworth, Kans. (Leavenworth)	FX	WVC	72 (4,165), 217 (1,380), 225 (1,335), 4,305 (69.69), 8,610 (34.84)	0	N	U. S. Army.
Fort Leavenworth, Kans.	FA	WYM	200 (1,500)	0	Y	Do.
Fort Lewis, Wash.	FX	WUN	220 (1,365), 4,030 (74.44), 8,000 (37.22)	0	Y	Do.
Fort MacArthur, Calif.	FX	WZV	173 (1,735), 227 (1,320)	0	Y	Do.
Fort McIntosh, Tex. (Laredo)	FX	WUH	254 (1,250)	0	Y	Do.
Fort William McKinley, P. I. (Rizal)	FX	WUX	4,305 (69.69), 8,610 (34.84)	0	N	Do.
Fort McPherson, Ga.	FX	WVR	105 (2,800), 4,310 (69.61), 6,990 (42.92), 8,620 (34.80)	0	N	Do.
Fort Mills, P. I. (Corregidor Island)	FX	WUF	187 (1,605), 222 (1,350), 272 (1,105)	0	Y	Do.
Fort Monmouth, N. J. (Long Branch laboratories)	FX	WLY	Variable.	0	X	Do.
Fort Monmouth, N. J.	FX	WTV	185 (1,620), 200 (1,500), 232 (1,295), 6,990 (42.92)	0	Y	Do.
Fort Monroe, Va.	FX	WUF	229 (1,310)	0	Y	Do.
Fort Oglethorpe, Ga.	FX	WUS	232 (1,295)	0	Y	Do.
Fort Omaha, Nebr.	FX	WVU	173 (1,735), 6,990 (42.92), 4,440 (67.57), 8,880 (33.78), 13,320 (22.52)	0	Y	Do.

See footnotes on p. 107.

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Fort Preble, Me.	FX	WVN	212 (1,415)	O	Y	U. S. Army.
Fort Randolph, Canal Zone.	FX	WZV	530 (460), 1,110 (270)	O	Y	Do.
Fort Riley, Kans.	FX	WUL	200 (1,860), 210 (1,450), 4,430 (67.72), 8,860 (33.86)	O	Y	Do.
Do.	FX	WYV	200 (1,860)	O	Y	Do.
Do.	FX	WZL	200 (1,860)	O	Y	Do.
Fort Ringgold, Tex.	FX	WTR	234 (1,280)	O	Y	Do.
Fort Rodman, Mass.	FX	WYU	135 (1,425)	O	Y	Do.
Fort Rucker, Hawaii.	FX	WTP	652 (467.5)	PR	Y	Do.
Fort St. Michael, Alaska.	FX	WKT	51 (5,850), 4,090 (73.35), 4,375 (68.57), 4,430 (67.72), 6,990 (42.92), 8,180 (36.67), 8,750 (34.20), 8,860 (33.86), 13,125 (22.86), 13,290 (22.57), 17,720 (16.930), 17,500 (17.143)	O	Y	Do.
Fort St. Michael, Alaska.	FX	WVB	185 (1,625), 4,050 (73.53), 8,160 (36.76), 12,240 (24.51), 16,320 (18.382), 20,425 (14.687)	O	Y	Do.
Fort San Antonio, Tex. (San Antonio, Ill.)	FX	WVJ	750 (400)	O	Y	Do.
Fort Shafter, Hawaii (Honolulu)	FX	WZU	192 (1,565), 200 (1,500), 4,090 (73.35), 8,180 (36.67)	O	Y	Do.
Fort Sherman, Canal Zone.	FX	WYZ	205 (1,465)	O	Y	Do.
Fort Sill, Okla.	FX	WZS	205 (1,465)	O	Y	Do.
Fort Snelling, Minn.	FX	WUT	229 (1,310)	O	Y	Do.
Fort Story, Va.	FX	WUV	232 (1,265)	O	Y	Do.
Fort Thomas, Ky.	FX	WUL	do.	O	Y	Do.
Fort Totten, N. Y.	FX	WXXN	566 (530)	PR	Y	Do.
Fortuna Ledge, Alaska.	FX	WXXN	227 (1,320), 232 (1,265)	PR	Y	Do.
Fort Wayne, Mich. (Battle Creek)	FX	WTD	200 (1,500), 445 (675)	O	Y	Do.
Fort Wint, P. I. (Grande Island)	FX	WTB	240 (1,250), 350 (855), 3,350 (80.6), 3,370 (80), 5,940 (50.51), 5,960 (50.34)	O	N	Department of Commerce, Bureau of Lighthouses.
Fort Worth, Tex.	FX	KKJ	240 (1,250), 350 (855), 3,350 (80.6), 3,370 (80), 5,940 (50.51), 5,960 (50.34)	O	N	Department of Commerce, Bureau of Lighthouses.
Fort Yukon, Alaska.	FX	WXX	476 (630)	PR	Y	U. S. Army.
Fortteen Foot Shoals, Mich.	FX	WWE	3,410 (88)	O	Y	Department of Commerce, Bureau of Lighthouses.
France Field, Canal Zone (Cristobal).	FA, FX	WYP	200 (1,500)	O	Y	U. S. Army.
Fresno, Calif.	FA, FX	KCU	201 (1,495), 344 (870), 3,345 (89.6), 3,370 (89), 5,940 (50.51), 5,955 (50.36)	O	Y	Department of Commerce, Bureau of Lighthouses.
Frying Pan Shoals Lightship, N. C.	FC	WSD	375 (800), 410 (730), 500 (600)	O ²	N	U. S. Army.
Glendale, Calif. (Los Angeles)	FA, FX	KCT	201 (1,495), 284 (1,055), 3,345 (89.6), 3,370 (89), 5,940 (50.51), 5,955 (50.36)	O	N	Department of Commerce, Bureau of Lighthouses.
Gloucester, Mass. (section base 7)	FC	NOG	212 (1,415), 223 (1,345), 232 (1,295), 6,990 (42.92)	O	Y	U. S. Coast Guard.
Governors Island, N. Y.	FX	WVP	8,160 (36.76)	O	Y	Do.
Granada, Nicaragua.	FX	WVG	do.	O	Y	Department of Commerce, Radio Division.
Grand Island, Nebr.	FX	WVA	do.	O	X	Do.
Great Lakes, Ill.	FC	NAJ	122 (2,468) s ¹	O	Y	U. S. Navy.
Greensboro, N. C.	FA, FX	WRW	235 (1,275), 320 (940), 3,340 (89.8), 3,370 (89), 5,925 (50.63), 5,940 (50.51)	O	N	Department of Commerce, Bureau of Lighthouses.
Grudler, Alaska.	FX	WZA	645 (465)	PR	Y	U. S. Army.
Guam, Mariana Island Radio.	FC, FX	NPN	50.4 (5,949), 82 (2,271), 500 (600)	PG	N	U. S. Army.
Guantanamo Bay, Cuba.	FC, FX	NAW	113 (2,653) s ¹	O	N	Do.
Haines, Alaska.	FX	WTV	227 (1,320)	PR	Y	U. S. Army.

Station Name	Call Letters	Frequency	Power	Class	Agency
Hampton Roads, Va. (naval operating base)	NHR				U. S. Navy.
Hatbox Field, Okla. (Muskegee)	WYN	200 (1,500)		O	U. S. Army.
Heald Bank Lightship, Tex.	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.	NPH	638 (470)		O	Do.
Holy Cross, Alaska.	WXM			PR	U. S. Army.
Honolulu, Hawaii (Vailupe)	WXM			O	U. S. Navy.
Honolulu, Hawaii (Heeia Point)	NHP	54 (5,552) ²⁰		O	Do.
Honolulu, Hawaii (Pearl Harbor)	NPM	26.1 (11,490), ²¹ 106 (2,828) ²¹		Y	U. S. Army.
Hot Springs, Alaska.	WXX	54 (5,545)		PR	Do.
Ikitrod, Alaska.	WXL	54 (5,545), 86 (3,490)		PR	Do.
Iowa City, Iowa.	KIS	206 (1,456), 336 (920), ¹ 5,370 (89), 3,390 (88.5), 5,940 (50.61), 5,950 (50.42)		O	Department of Commerce, Bureau of Lighthouses.
Jacksonville, Fla. (seventh district U. S. N. R.)	NDU			O	U. S. Navy.
Jefferson Barracks, Mo. (St. Louis)	WVU	222 (1,350)		O	U. S. Army.
Juneau, Alaska.	WXA	133 (2,255)		PR	Do.
Jupiter, Fla.	NAQ	185 (1,621) ²²		O	U. S. Navy.
Kanakamak, Alaska.	WZE	223 (1,345)		PR	U. S. Army.
Kansas City, Mo.	KRC	240 (1,250), 344 (870), ¹ 3,350 (89.6), 8,370 (89), 5,940 (50.61), 5,960 (50.34)		O	Department of Commerce, Bureau of Lighthouses.
Kansas City, Mo. (ninth district, U. S. N. R.)	NDP			O	U. S. Navy.
Kelly Field, Tex. (San Antonio)	WYG	200 (1,500)		O	U. S. Army.
Ketchikan, Alaska Radio	WXH	66 (4,550), 173 (1,735), 500 (600), 550 (545), 4,025 (74.53), 8,050 (37.37), 12,075 (24.85), 16,100 (18.644), 20,125 (14.92)		PG,PR	Do.
Key West, Fla., radio	NAR	106 (2,928), 513 (2,653), ¹ 500 (600)		PG	U. S. Navy.
Key West, Fla.	WBP	235 (1,275), 284 (1,055), ¹ 3,370 (89), 3,400 (88.2), 5,920 (50.68), 5,940 (50.57)		O	Department of Commerce, Bureau of Lighthouses.
Kilauea Point Light Station, Hawaii.	KCW	375 (800), 410 (730), 500 (600)		O	Do.
Kindley Field, P. I. (Corregidor Island)	WYR	631 (475), 665 (450)		O	U. S. Army.
Kodiak, Alaska Radio	NPS	112 (2,677), 500 (600)		PG	U. S. Navy.
Kotzebue, Alaska	WXW	689 (435)		PR	U. S. Army.
La Crosse, Wis.	WSG	205 (1,455), 338 (890), ¹ 3,370 (89), 3,390 (88.5), 5,540 (50.61), 5,950 (50.42)		O	Department of Commerce, Bureau of Lighthouses.
Lakehurst, N. J.	NEL			O	U. S. Navy.
Langley Field, Va. (Hampton)	WYC	200 (1,500), 229 (1,310)		O	U. S. Army.
Lansing Shoal Lightship, Mich.	WWZ	375 (800), 410 (730), 500 (600)		O	Department of Commerce, Bureau of Lighthouses.
La Palma, Panama Radio.	NCW	128 (2,342), 500 (600)		PG	U. S. Navy.
Livegood, Alaska	WXX	625 (480)		PR	U. S. Army.
Long Beach, Calif. (Naval Reserve Air Base)	NTB			O	U. S. Navy.
Lordsburg, N. Mex.	WYZ	200 (1,500)		O	U. S. Army.
Los Angeles, Calif. (eleventh district, U. S. N. R.)	NDV			O	U. S. Navy.
Los Angeles, Calif.	WZII	4,030 (74.44), 8,060 (37.22)		O	U. S. Army.
Love Field, Tex. (Dallas)	FA,FX	200 (1,500)		O	U. S. Navy.
Luke Field, Hawaii (Pearl Harbor)	WYQ	.....do		O	Do.

See footnotes on p. 107.

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Makapuu Point Light Station, Hawaii (Oahu Island).	FC	KCP	375 (800), 425 (705), 500 (600)	0		Department of Commerce, Bureau of Lighthouses.
Manangu, Nicaragua	FX	NAZ	187 (1,005), 4,080 (74.4), 4,305 (69.69), 8,060 (37.22), 8,610 (34.84), 12,050 (24.84), 16,120 (18.61), 20,180 (14.888).	0	Y	U. S. Navy.
Mannila, P. I. (Port Santiago, Luzon).	FX	WTA		0		U. S. Army.
March Field, Calif.	FA,FX	WTC	200 (1,500), 220 (1,365)	0	Y	Do.
Marquette Light Station, Mich.	FX	WWM		0		Department of Commerce, Bureau of Lighthouses.
Mary Island Light Station, Alaska.	FC	KCK	375 (800), 410 (730), 500 (600)	0		Do.
Maxwell Field, Ala.	FA,FX	WYK	200 (1,500)	0	Y	U. S. Army.
Maywood, Ill. (Chicago).	FA,FX	KDA	214 (1,400), 350 (855), 5,370 (89), 3,380 (88.8), 5,930 (50.59), 5,940 (50.51).	0	Y	Department of Commerce, Bureau of Lighthouses.
Medford, Mass. (first district U.-S.-N.R.).	FX	NDA	201 (1,495), 266 (1,130), 1,345 (80.6), 3,370 (89), 5,940 (50.51), 5,955 (50.46)	0	N	Do.
Medford, Ore.	FA,FX	KCX		0	N	U. S. Navy.
Middletown, Pa.	FA,FX	WYU	200 (1,500), 229 (1,310)	0	Y	U. S. Army.
Midland, Tex.	FA,FX	WZAB	200 (1,500), 4,900 (42.92)	0	Y	Do.
Mitchell Field, N. Y. (Mineola, L. I.).	FA,FX	WYA	200 (1,500), 232 (1,265)	0	Y	Do.
Mobile, Ala.	FC	NMG		0		U. S. Coast Guard.
Murfreesboro, Tenn.	FA,FX	WWAC	235 (1,275), 350 (855), 5,370 (89), 3,400 (88.2), 5,920 (50.68), 5,940 (50.51).	0	N	Department of Commerce, Bureau of Lighthouses.
Nahant, Mass.	FC	NMF		0		Department of Commerce, Bureau of Lighthouses.
Nantucket Shoals Lightship, Mass.	FC	WPS	375 (800), 410 (730), 500 (600)	0	(2)	Department of Commerce, Bureau of Lighthouses.
Naval Academy, Md. (See Annapo- lis, Md.).	FC	NAK		0		U. S. Navy.
Naval Land Station (any or all)	NQO			0	N	Do.
New Brunswick, N. J. (Hadley Field).	FA,FX	WVU	230 (1,305), 338 (800), 5,370 (89), 3,380 (88.8), 5,930 (50.59), 5,940 (50.51).	0		Department of Commerce, Bureau of Lighthouses.
New London, Conn. (Coast Guard Academy).	FC	NBL		0		U. S. Coast Guard.
New London, Conn.	FX	NON		0		Do.
New Orleans, La.	FC	NOU	104 (2,885) ^{18 37}	0		U. S. Navy.
Newport, R. I.	FC	NAT		0		Do.
Newport, R. I. (torpedo station)	FX	NAF		0	X	Do.
Do.	FX	NBK		0		Do.
New York, N. Y.	FC	NHB		0		Do.
New York, N. Y. (third district U. S. N. R.).	FC	NAH	102 (2,939) ¹⁸	0		Do.
Nome, Alaska Radio	FC,FX	WXY	75 (4,000), 83 (3,616), 236 (1,270), 454 (660), 500 (600)	PG,PR	Y	U. S. Army.
Norfolk, Va., radio	FC	NAM	122 (2,456), 19,300 (600)	PG	N	U. S. Navy.
North East End Lightship, N. J.	FC	WRD	375 (800), 410 (730), 500 (600)	O	(4)	Department of Commerce, Bureau of Lighthouses.
North Platte, Nebr.	FA,FX	KVM	206 (1,456), 284 (1,055), 5,370 (89), 3,390 (88.5), 5,940 (50.51), 5,950 (50.42).	0	N	Do.

RADIO STATIONS OF THE UNITED STATES

Nulato, Alaska.....	FX	93.7 (3,200), 167 (1,800), 471 (635)	U. S. Army.	Y	
Oakland, Calif. (twelfth district U. S. N. R.)	FA,FX	201 (1,495), 326 (920), 3,360 (89.3), 3,370 (89), 5,920 (50.68), 5,940 (50.51).	Department of Commerce, Bureau of Lighthouses.	N	
Oakland, Calif. (twelfth district U. S. N. R.)	FX		U. S. Navy.	X	
Oly, Samoa.....	FX		Do.	(4)	
Oklahoma City, Okla.....	FX	3,340 (89.8), 3,350 (89.6), 5,640 (50.51), 5,960 (50.34)	Department of Commerce, Bureau of Lighthouses.	N	
Oklahoma City, Okla. (eighth district U. S. N. R.)	FX		U. S. Navy.	X	
Olangupe, P. I.....	FC	206 (1,465), 314 (965), 3,370 (89), 3,390 (88.5), 5,940 (50.51), 5,950 (50.42).	Do.	N	
Omaha, Nebr.....	FA,FX		Department of Commerce, Bureau of Lighthouses.	X	
Orlando, Fla. (seventh district U. S. N. R.)	FX		U. S. Navy.		
Panama City National Airport, Panama, Republic of Panama.	FA,FX		Do.		
Parris Island, S. C., radio.	FC	400 (750), 500 (600)	Department of Commerce, Bureau of Lighthouses.	N	
Pasco, Wash.....	FA,FX	201 (1,495), 314 (965), 3,370 (89), 3,405 (88.11), 5,940 (50.51), 5,955 (50.36).	U. S. Navy.	N	
Pearl Harbor, Hawaii. (See Honolulu, Hawaii)	FX		Do.		
Pearl Harbor, Hawaii (subbase)	FX		Do.		
Peiping, China.....	FX		Do.		
Pensacola, Fla.....	FA,FX		Do.		
Pensacola, Fla. (eighth district U. S. N. R.)	FX	113 (2,653), 3,500 (600)	Do.	N	
Petersburg, Alaska.....	FX	207 (1,450)	U. S. Army.	Y	
Philadelphia, Pa.....	FC	104 (2,885) 3	U. S. Navy.		
Pleasant Valley, Nev.....	FA,FX	240 (1,250), 275 (1,050), 3,360 (89.3), 3,370 (89), 5,920 (50.68), 5,940 (50.51).	Department of Commerce, Bureau of Lighthouses.	(3)	
Poe Reef Lighthouse, Mich.	FX	3,410 (88)	Do.	X	
Point Barrow, Alaska.....	FX	447 (970), 4,395 (68.73), 8,730 (34.36)	U. S. Army.	Y	
Point Bonita, Calif.....	FC		U. S. Coast Guard.		
Follock Rip Lighthouse, Mass.....	FC	375 (800), 410 (730), 500 (600)	Department of Commerce, Bureau of Lighthouses.	(3)	
Ponce, P. R.....	FC,FX	3,385 (88.62), 4,205 (71.34)	Treasury Department, Bureau of Customs.	N	
Pope Field, N. C. (Fort Bragg)	FX	200 (1,500), 219 (1,370)	U. S. Army.	Y	
Port Angeles, Wash. (section base 13)	FC		U. S. Coast Guard.		
Fort au Prince, Haiti, radio.	NSC	58 (5,169), 132 (2,273), 500 (600)	U. S. Navy.	N	
Portland Lighthouse, Me.....	FC	410 (730), 500 (600)	Department of Commerce, Bureau of Lighthouses.	(3)	
Portland, Ore.....	FA,FX	201 (1,495), 284 (1,055), 3,345 (89.6), 3,370 (89), 5,940 (50.51), 5,955 (50.36).	Do.	N	
Portsmouth, N. H.....	FC		U. S. Navy.		
Portsmouth, Va. (fifth district U. S. N. R.)	FX		Do.	X	
Port Townsend, Wash.....	FC		U. S. Coast Guard.		
Presidio of Monterey, Calif. (Monterey)	FX	220 (1,365)	U. S. Army.	Y	

See footnotes on p. 107

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

Station	Class	Call sig- nal	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Puerto Obaldia, Panama, radio	FC	NRK	128 (2,342), 500 (600)	PG	X	U. S. Navy.
Puget Sound, Wash. (Bremerton)	FX	NCH	-----	O	-----	Do.
Puget Sound, Wash. (Keyport)	FC	NPC	102 (2,639) 37.33	O	-----	Do.
Quantico, Va.	F, A, FX	NFV	-----	O	-----	Do.
Quantico, Va. (marine school)	FX	NZY	750 (400), 4,365 (68.73), 8,730 (84.36), 13,095 (22.91), 17,400 (17.182)	O	N	Do.
Quarry Heights, Canal Zone	FX	WVL	-----	O	-----	U. S. Army.
Relief Lightship No. 76	FC	KCO	375 (800), 410 (730), 500 (600)	O ?	X	Department of Commerce, Bureau of Lighthouses.
Relief Lightship No. 78	FC	WRF	do	O ?	X	Do.
Relief Lightship No. 80	FC	WRZ	do	O ?	X	Do.
Relief Lightship No. 85	FC	WPT	do	O ?	X	Do.
Relief Lightship No. 90	FC	WVW	do	O ?	X	Do.
Relief Lightship No. 92	FC	KCL	do	O ?	X	Do.
Relief Lightship No. 109	FC	WSN	do	O ?	X	Do.
Reno, Nev.	F, A, FX	KLK	240 (1,250), 254 (1,180), 1,336 (80.3), 3,870 (89), 5,920 (50.68), 6,940 (60.51)	O ?	N	Do.
Richmond, Va.	F, A, FX	WNR	230 (1,305), 260 (1,165), 1,334 (89.8), 3,870 (89), 5,925 (50.65), 5,940 (60.51)	O	N	Do.
Rockaway Beach, N. Y.	FC	NMY	240 (1,250), 350 (855), 1,336 (89.3), 3,870 (89), 5,920 (50.68), 5,940 (60.51)	O	N	U. S. Coast Guard.
Rock Springs, Wyo.	F, A, FX	KDN	-----	O	-----	Department of Commerce, Bureau of Lighthouses.
Rockwell Field, Calif. (Coronado)	F, A, FX	WYH	200 (1,500), 220 (1,365)	O	Y	U. S. Army.
Ruby, Alaska	FX	WXU	750 (400)	PR	Y	Do.
Sacramento, Calif. (Mather Field)	FX	KOC	230 (1,305), 3,340 (89.8), 3,870 (89), 5,925 (50.63), 5,940 (60.51)	O	X	Department of Commerce, Bureau of Lighthouses.
St. Augustine, Fla., radio	FC	NAP	128 (2,342), 500 (600)	PG	(a) (40)	U. S. Navy.
St. Croix, Virgin Islands	FX	NBR	-----	O	(a)	Do.
St. George, Alaska (Pribilof Islands)	FX	WVD	315 (952), 445 (675), 500 (600)	O	X	Department of Commerce, Bureau of Lighthouses.
St. George Reef Light Station, Calif.	FX	KCG	501 (535)	O	-----	Department of Commerce, Bureau of Fisheries.
St. Johns River Lightship, Fla.	FC	WSJ	375 (800), 410 (730), 500 (600)	O	X	Department of Commerce, Bureau of Lighthouses.
St. John, Virgin Islands	FX	NBO	-----	O ?	(3)	Do.
St. Louis, Mo.	F, A, FX	KCQ	240 (1,250), 290 (1,034), 1,5370 (89), 3,395 (88.36), 5,940 (60.51), 5,960 (60.24)	O	(4)	U. S. Navy.
Do.	FX	WZK	396 (769), 2,605 (115.2)	O	N	Department of Commerce, Bureau of Lighthouses.
St. Michael, Alaska. (See Fort St. Michael, Alaska)	FC	WXT	-----	O	Y	U. S. Army.
St. Paul, Alaska, radio	FC	NPQ	52 (5,766), 118 (2,541), 500 (600)	PG	N	U. S. Navy.
St. Petersburg, Fla. (section base 21)	FC	NOF	132 (2,273), 500 (600)	O	N	U. S. Coast Guard.
St. Thomas, Virgin Islands, radio	FC	NBB	240 (1,250), 260 (1,035), 1,336 (89.3), 3,870 (89), 5,920 (50.68), 8,110 (56.99), 12,165 (24.66)	PG	N	U. S. Navy.
Salt Lake City, Utah	F, A, FX	KGD	-----	O	-----	Department of Commerce, Bureau of Lighthouses.
San Diego, Calif. (naval headquarters)	FC, FX	NCD	-----	O	-----	U. S. Navy.

Station Name	Call Letters	Frequency	Power	Class	Agency
San Diego, Calif. (eleventh district U. S. N. R.)	NPL	30.6 (9,798), ¹ 102 (2,933) ¹ 41		O	Do.
San Diego, Calif. (Chollas Heights)	NQG			O	Do.
San Diego, Calif. (laboratory)	NQH			O	Do.
San Francisco, Calif. (twelfth district U. S. N. R.)	NIK			O	Do.
San Francisco, Calif. (naval headquarters)	NPG	42.8 (7,005), ² 43 44 66 (4,543), ⁴ 108 (2,776), ² 43 44 4 8,550 (34,80), ³ 44		O	Do.
San Francisco, Calif. (Presidio of San Francisco)	WVY	173 (1,735), 4,030 (74.44), 4,300 (69.77), 6,990 (42.92), 8,060 (97.22), 8,600 (34.88), 12,900 (23.26), 17,200 (17.453)		O	U. S. Army.
San Francisco Lightship, Calif.	KCN	375 (800), 410 (730), 500 (600)		O	Department of Commerce, Bureau of Lighthouses.
San Jose Field, P. I. (Mindoro)	WZX	5,850 (51.28)		O	Do.
San Juan, P. R. radio (Caycey)	NAU	48 (6,246), ¹ 113 (2,653), ² 500 (600)		PG	U. S. Army.
San Juan, P. R. (control)	NCQ			O	U. S. Navy.
San Juan, P. R.	NXA	3,385 (88.62), 4,205 (71.34)		O	Treasury Department, Bureau of Customs.
San Pedro, Calif. (section base 17)	NOJ			O	U. S. Coast Guard.
Sault Ste. Marie, Mich.	NOZ	185 (1,621), ¹ 500 (600)		PG	Do.
Savannah, Ga. radio.	NEV	425 (705), 500 (600)		PG	U. S. Navy.
Savoonga, Alaska (St. Lawrence Island)	WVJ	185 (1,621)		O	Department of Interior, Bureau of Education.
Schofield Barracks, Hawaii	KCB	500 (600), 750 (400), 870 (345), 1,010 (297), 1,172 (256)		O	U. S. Army.
Scott Cap Light Station, Alaska	WYF	200 (1,500)		O	Department of Commerce, Bureau of Lighthouses.
Scott Field, Ill. (Belleville)	KCZ	201 (1,495), 344 (870), ¹ 3,345 (89.6), 3,370 (89), 5,940 (50.51), 5,955 (50.36)		O	U. S. Army.
Seattle, Wash.	NDQ			O	Department of Commerce, Bureau of Lighthouses.
Seattle, Wash. (thirteenth district, U. S. N. R.)	WVD	4,085 (73.45), 8,170 (36.72), 12,255 (24.48), 16,340 (18.360), 20,400 (14,706)		O, PR	U. S. Army.
Selfridge Field, Mich. (Mount Clemens)	WYE	200 (1,500), 232 (1,295)		O	Do.
Sentinel Island Light Station, Alaska	KWH	375 (800), 410 (730), 500 (600)		O	Department of Commerce, Bureau of Lighthouses.
Seward, Alaska, radio.	WXR	100 (3,000), 120 (2,500), 200 (1,500), 225 (1,335), 4,365 (68.73), 8,730 (34.36), 13,095 (22.91), 17,460 (17.182)		PG, PR	U. S. Army.
Sitka, Alaska, radio	NPB	104 (2,883), 500 (600)		PG	U. S. Navy.
Sitka, Alaska	WXC	250 (1,200)		PR	U. S. Army.
Skagway, Alaska	WZC	4,310 (69.61), 8,620 (34.80)		PR	Do.
South Manchester, Conn. (third district U. S. N. R.)	NDF			O	U. S. Navy.
South Pass Lightship, Louisiana	WSW	375 (800), 410 (730), 500 (600)		O	Department of Commerce, Bureau of Lighthouses.
Spartanburg, S. C.	WFT	235 (1,275), 254 (1,180), ¹ 3,240 (63.8), 3,370 (89), 5,925 (50.63), 6,940 (50.51)		O	Do.
Squaw Harbor, Alaska, radio (Unga Island)	WZF	500 (600), 4,365 (68.743), 8,730 (34.30)		PG, PR	U. S. Army.
Stannard Rock Light Station, Michigan	WWII	3,410 (88)		O	Department of Commerce, Bureau of Lighthouses.

See footnotes on p. 107.

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

Station	Class	Call Signa	Frequency in kilocycles (meters in parentheses)	Service	Hours	Owner
Staten Island, N. Y. (section base 2)	FC	NOA	240 (1,250), 275 (1,080), ¹ 3,370 (89), 3,405 (88.11), 5,940 (50.51),	O	(9)	U. S. Coast Guard.
Strevell, Idaho	FA, FX	KME	5,955 (50.36)	O		Department of Commerce, Bureau of Lighthouses.
Swiftsure Bank Lightship, Washington.	FC	KCI	375 (800), 410 (730), 500 (600)	O	(9)	Do.
Tacotna, Alaska	FX	WXV	536 (560), 558 (540)	PR	Y	U. S. Army.
Tau, Samoa	FX	NCM	500 (600)	O	(4)	U. S. Navy.
Teller, Alaska	FX	WZR	645 (465)	PR	Y	Do.
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.
Tulsa, Okla.	FA, FX	KCAA	240 (1,250), 295 (1,015), ¹ 3,350 (89.6), 3,370 (89), 5,940 (50.51),	O	N	Department of Commerce, Bureau of Lighthouses.
Tutula, Samoa, radio.	FC	NPU	5,960 (50.34)	O	N	Lighthouses.
Umatilla Reef Lightship, Washington.	FC	KCJ	105 (2,830), 355 (845), 500 (600)	PG	N	U. S. Navy.
Unalaska, Alaska	FC	NOY	375 (800), 410 (730), 500 (600)	O	(9)	Department of Commerce, Bureau of Lighthouses.
Valdez, Alaska, radio	FC	WXJ	500 (600), 665 (450)	O	Y	U. S. Army.
Vancouver Barracks, Wash.	FX	WTI	220 (1,365), 600 (74.44), 8,060 (37.22)	PG, PR	Y	U. S. Coast Guard.
Washington, D. C. (Arlington, Va.)	FX	NAA	68 (1,409), ¹ 115 (2,653), ² 32 (690 (434.5)), 4,015 (74.72), ³ 13 34	O	Y	Do.
Washington, D. C. (navy yard)	FX	NAL	5,930 (57.34), ⁴ 12,045 (24.9), ⁵ 15 16,060 (18.67), ⁶ 51 51	O	Y	U. S. Navy.
Washington, D. C. (Washington District U. S. N. R.)	FX	NDN	690 (434.5)	O		Do.
Washington, D. C.	FC	NMH	17.8 (16,840) M	O		Do.
Washington, D. C. (Annapolis, Md.)	FX	NSS	36 (1,400), 225 (1,335), 4,020 (74.63), 4,025 (74.54), 4,255 (70.51),	O	X	U. S. Coast Guard.
Washington, D. C.	FX	WAR	4,365 (68.73), 6,090 (42.92), 8,040 (37.31), 8,050 (37.27), 8,510	O	N	U. S. Navy.
(25.25), 12,000 (24.85), 12,075 (24.84), 12,765 (23.5), 13,095			20,125 (14,907),			U. S. Army.
20,125 (14,907),			6,990 (42.92)			
Do.	FX	WLM	290 (1,395), 266 (1,130), ¹ 3,340 (89.5), 3,370 (89), 5,925 (50.63),	O	X	Do.
Washington, D. C. (Bureau of Standards laboratory).	FX	WVW	5,940 (50.51), 8,110 (36.99), 12,165 (24.66)	O	X	Department of Commerce, Bureau of Standards.
Washington, D. C.	FA, FX	WVX	222 (1,295)	O	N	Department of Commerce, Bureau of Lighthouses.
West Point, N. Y.	FA, FX	WUW	182 (1,625), 200 (1,500)	O	Y	U. S. Army.
Wheeler Field, Hawaii (Oahu)	FA, FX	WYX	240 (1,250), 320 (940), 3,350 (89.6), 3,370 (89), 5,940 (50.51),	O	N	Department of Commerce, Bureau of Lighthouses.
Wichita, Kans.	FA, FX	WEK	3,369 (90.94)	O	N	Do.
Williamsville, N. Y. (Buffalo)	FA, FX	WVAB	214 (1,400), 350 (850), ¹ 3,370 (89), 3,380 (88.8), 5,930 (50.59),	O	N	Do.
5,940 (50.51).						
Wilmington, Del. (fourth district U. S. N. R.)	FX	NDC		O	X	U. S. Navy.
Winnetka, Ill. (ninth district U. S. N. R.)	FX	NDS		O	X	Do.
Winter Quarter Shoals Lightship, Virginia.	FC	WRO	375 (800), 410 (730), 500 (600)	O	(9)	Department of Commerce, Bureau of Lighthouses.

Station Name	FX	WXG	545 (550)	PR	Y	U. S. Army, U. S. Coast Guard, U. S. Army, Do., Do., Do.
Wiseman, Alaska	FX	WXG	545 (550)	PR	Y	U. S. Army.
Woods Hole, Mass. (section base 18)	FC	NOP	197 (1,425), 207 (1,450), 258 (1,165)	O	Y	U. S. Coast Guard.
Wrangell, Alaska	FX	WTG	200 (1,500), 223 (1,365)	PR	Y	U. S. Army.
Yuma, Ariz	FA, FX	WTUQ	187 (1,005), 4,030 (74.45), 8,060 (37.22)	O	Y	Do.
Zamboanga, P. I. (Petit Barracks)	FX	WTLX		O		Do.
PORTABLE						
Atlantic coast	FX	WSP	1,690 (177.5) to 1,700 (176.5), 2,490 (120.5) to 2,500 (120), 4,135 (72.55), 8,270 (36.28), 16,540 (18.138),	O	X	Department of Commerce, Coast and Geodetic Survey.
Pacific coast	FX	WSQ	do	O	X	Do.
	FX	WSR	do	O	X	Do.
	FX	KVB	do	O	X	Do.
	FX	KVD	do	O	X	Do.
	FX	KVE	do	O	X	Do.
	FX	KVF	do	O	X	Do.
	FX	KVJ	do	O	X	Do.
	FX	KVK	do	O	X	Do.
Pittsburgh, Pa	FX	WVY	Variable	FX	X	Department of Commerce, Bureau of Mines.

- 1 Broadcasts always weather; type A3 emission.
- 2 Open to relaying public correspondence in emergencies.
- 3 First 15 minutes every hour between 8 a. m. and 9.15 p. m.
- 4 Transmits weather at 0130, 0430, 1330, 1730, and 2130 G. C. T.
- 5 Transmits time signals 1655 to 1700 G. C. T.
- 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 m. and 6 p. m.
- 9 Transmits hydrographic warnings and ice reports (in season) 1600, 2200 G. C. T.
- 10 Transmits hydrographic warnings 1700, 1800 G. C. T.
- 11 Transmits time signals 0255 to 0300 G. C. T.
- 12 Transmits weather 0430 G. C. T.
- 13 Transmits time and hydrographic warnings 1355 to 1400 G. C. T.
- 14 Transmits time and hydrographic warnings 1530, 2300 G. C. T.
- 15 Transmits weather and hydrographic warnings 1009 G. C. T.
- 16 Transmits hydrographic warnings 0630, 2030 G. C. T.
- 17 Transmits weather and hydrographic warnings 0018, 0418, 0818, 1218, 1618, 2018 G. C. T.
- 18 Transmits weather and hydrographic warnings 0400, 1615, 2200 G. C. T.
- 19 Transmits weather July 1 to November 15 at 0115 G. C. T.
- 20 Transmits weather and hydrographic warnings 0230, 0630, 1830, 2230 G. C. T.
- 21 Transmits time signals 2355 to 2400 G. C. T.
- 22 Transmits weather 1630, 2300 G. C. T.
- 23 Transmits weather 0400, 1800 G. C. T.
- 24 a. m. to 4 p. m.
- 25 First 15 minutes every hour between 8 a. m. and 10.15 p. m.
- 26 Transmits weather 1600 G. C. T.
- 27 Transmits time and hydrographic warnings 1655 to 1700 G. C. T.
- 28 Transmits weather, hydrographic warnings, and ice reports (in season), 1530, 2130 G. C. T.
- 29 Transmits weather, hydrographic warnings, and ice reports (in season) 0900, 1000, 2100 G. C. T.
- 30 Transmits weather 1645, 2300 G. C. T.
- 31 Interisland service only.
- 32 Transmits weather 1545, 2200 G. C. T.
- 33 Emergency weather broadcasts to aircraft; type A3 emission.
- 34 Operates only during scheduled flights over sector in which station is located.
- 35 First 15 minutes every hour between 8 a. m. and 5 p. m.
- 36 Transmits weather 0100, 0400, 1300 G. C. T.
- 37 Transmits weather, hydrographic warnings 0300, 1700, 2100 G. C. T.
- 38 0700 to 1800 seventy-fifth meridian time.
- 39 7 a. m. to 6 p. m.
- 40 Transmits weather 0430, 1630, 2200 G. C. T.
- 41 Transmits aviation weather 0215, 1415 G. C. T.
- 42 Transmits marine weather, hydrographic warnings 0830, 1830 G. C. T.
- 43 Transmits time signals 0555 to 0600, 1955 to 2000 G. C. T.
- 44 Transmits weather (Bonita Channel) 0000, 0130, 0800, 1200, 1630, 2000 G. C. T.
- 45 Second 15 minutes every hour between 8 a. m. and 9.15 p. m.
- 46 Transmits Caribbean weather July 1 to November 15, 0945, 0490, 1600 G. C. T.
- 47 Transmits marine weather 1600, 2330 G. C. T.
- 48 Transmits marine weather 0800, 1500 G. C. T.
- 49 Transmits time signals 0255 to 0300, 0755 to 0800, 1655 to 1700 G. C. T.
- 50 Transmits hydrographic warnings, ice reports (in season) 0200, 1700 G. C. T.
- 51 Transmits aviation weather and upper air currents, 0115, 1315 G. C. T.
- 52 Transmits weather broadcast to Europe, 0400, 1600 G. C. T.
- 53 Transmits weather 2045 G. C. T.; type, A3 emission.

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.....	NRKD	U. S. Coast Guard.	Bailey.....	Δ NADZ	U. S. Navy.
Abbot.....	NEZS	U. S. Navy.	Bainbridge.....	Δ NUQL	Do.
Acacia.....	WWDC	Department of Commerce, Bu- reau of Light- houses.	Balch.....	Δ NEDP	Do.
Active.....	Δ NRLA	U. S. Coast Guard.	Ballard.....	Δ NIGN	Do.
Acushnet.....	Δ NRFA	Do.	Baltimore.....	Δ NAFD	Do.
Agassiz.....	Δ NRLB	Do.	Bancroft.....	Δ NAIQ	Do.
Albatross II.....	WTDA	Department of Commerce, Bu- reau of Fisheries.	Barker.....	Δ NUJK	Do.
Aldebaran.....	WYCU	U. S. Army.	Barnard.....	Δ WYDG	U. S. Army.
Alden.....	NULK	U. S. Navy.	Barnes, Robt. L.....	Δ NAZZ	U. S. Navy.
Alert.....	Δ NRPA	U. S. Coast Guard.	Barnett.....	Δ NUFN	Do.
Algonquin.....	Δ NRCA	Do.	Barney.....	Δ NIQT	Do.
Algoma.....	Δ NEVP	U. S. Navy.	Barry.....	Δ NUQP	Do.
Allegheny.....	NACZ	Do.	Basilan.....	Δ KZAF	Bureau of Com- merce and indus- try (Philippine insular govern- ment).
Allen.....	NEGN	Do.	Bayspring.....	NISZ	U. S. Navy.
Altair.....	NURJ	Do.	Beale.....	Δ NRGQ	U. S. Coast Guard.
Alton.....	NAMV	Do.	Beaver.....	NECC	U. S. Navy.
Amaranth.....	Δ WWDG	Department of Commerce, Bu- reau of Light- houses.	Belknap.....	Δ NEZZ	Do.
A. McKenzie.....	WYCN	U. S. Army.	Bell.....	Δ NATG	Do.
Anemone.....	Δ WWCD	Department of Commerce, Bu- reau of Light- houses.	Benham.....	Δ NEDQ	Do.
Ammen.....	Δ NRGA	U. S. Coast Guard.	Bernadou.....	Δ NESS	Do.
Ammunition Light- er No. 8.....	NEMP	U. S. Navy.	Biddle.....	Δ NIQX	Do.
Annapolis.....	NABX	State of Pennsyl- vania. ¹	Billingsley.....	Δ NUPQ	Do.
Antares.....	NATB	U. S. Navy.	Bittern.....	Δ NIJR	Do.
Anthony.....	NEVS	Do.	Black Hawk.....	NAJD	Do.
Antietam.....	Δ NRLC	U. S. Coast Guard.	Blakeley.....	NIQZ	Do.
Apache.....	NRFD	Do.	B. M. Harrod.....	WYCI	U. S. Army.
Apo.....	KZDB	Bureau of Com- merce and Indus- try (Philippine insular govern- ment).	Bobolink.....	NIJJ	U. S. Navy.
Aramis.....	NARP	U. S. Navy.	Boggs.....	NAMT	Do.
Arapaho.....	NIDS	Do.	Bonham.....	Δ NRPB	U. S. Coast Guard.
Arcata.....	NRKA	U. S. Coast Guard.	Boreas.....	NALM	U. S. Navy.
Arctic.....	NAFR	U. S. Navy.	Borie.....	Δ NULL	Do.
Argonne.....	NISX	Do.	Boutwell.....	Δ NRLD	U. S. Coast Guard
Arizona.....	Δ NACV	Do.	Boxer.....	Δ NIQM	U. S. Navy. ²
Arkansas.....	Δ NACT	Do.	Branch.....	Δ NEML	Do.
Aroostook.....	Δ NENR	Do.	Brant.....	NAFF	Do.
Ashtville.....	NELV	Do.	Brant.....	WTDB	Department of Commerce, Bu- reau of Fisheries.
Augusta.....	NIDF	Do.	Brazos.....	Δ NIFK	U. S. Navy.
Aulick.....	Δ NERG	Do.	Breck.....	Δ NULZ	Do.
Ausburne, Chas. Δ	NUPR	Do.	Breckenridge.....	Δ NERZ	Do.
Avocet.....	NADP	Do.	Breese.....	Δ NERSM	Do.
Aylwin.....	Δ NEDN	Do.	Briarcliff.....	NEZB	Do. ³
Azalea.....	WWCE	Department of Commerce, Bu- reau of Light- houses.	Bridge.....	NESE	Do.
Babbitt.....	Δ NEPX	U. S. Navy.	Bridgeport.....	NAPV	Do.
Bache.....	NEND	Department of Commerce, Coast and Geodetic Survey.	Brooks.....	Δ NEZX	Do.
Badger.....	Δ NEPT	U. S. Navy.	Broome.....	Δ NEPF	Do.
Badger, Geo. E. Δ	NUJG	Do.	Bruce.....	Δ NUPS	Do.
Bagaduce.....	NAZP	Do.	Buchanan.....	Δ NEQS	Do.
Bagley.....	Δ NIQS	Do.	Bulmer.....	Δ NUPN	Do.
			Bureau of Light- houses, Depart- ment of Com- merce, general call for all stations.	WWLH	Department of Commerce, Bu- reau of Light houses.
			Burns.....	NAFS	U. S. Navy.
			Burns, John Fran- cis.....	Δ NIGQ	Do.
			Burrows.....	Δ NRGB	U. S. Coast Guard.
			Bush.....	Δ NETT	U. S. Navy.
			Bushnell.....	NEFS	Do.
			Bustamente.....	KZBH	Bureau of Com- merce and Indus- try (Philippine insular govern- ment).
			Cahokia.....	Δ NRFC	U. S. Coast Guard.

See footnotes on p. 116.

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

Ship	Call signal	Owner	Ship	Call signal	Owner
Cahoone.....△	NRLG	U. S. Coast Guard.	C. G. 160.....	NRJQ	U. S. Coast Guard.
Caldwell.....△	NIDQ	U. S. Navy.	C. G. 161.....	NRJR	Do.
California.....△	NAFT	Do.	C. G. 162.....	NRJS	Do.
Calumet.....△	NRKP	U. S. Coast Guard.	C. G. 163.....	NRJU	Do.
Cambrai.....△	WUAA	U. S. Army.	C. G. 164.....	NRJV	Do.
Camden.....△	NAPR	U. S. Navy.	C. G. 165.....	NRJW	Do.
Canopus.....△	NIRX	Do.	C. G. 166.....	NRJX	Do.
Capella.....△	NAZK	Do.	C. G. 167.....	NRJY	Do.
Captain Clarence M. Condon.	WYBY	U. S. Army.	C. G. 168.....	NRJZ	Do.
Capt. Edward P. Nones.	WYBP	Do.	C. G. 169.....	NROA	Do.
Captain James For- nance.	WYAM	Do.	C. G. 170.....	NROB	Do.
Carrabassett.....△	NRFF	U. S. Coast Guard.	C. G. 171.....	NROC	Do.
Cartigan.....△	NRLF	Do.	C. G. 172.....	NROD	Do.
Case.....△	NUNX	U. S. Navy.	C. G. 173.....	NROF	Do.
Cassin.....△	NRDA	U. S. Coast Guard.	C. G. 174.....	NROG	Do.
Cedar.....△	WWDO	Department of Commerce, Bu- reau of Light- houses.	C. G. 175.....	NROH	Do.
C. G. 100.....	NRHA	U. S. Coast Guard.	C. G. 176.....	NROI	Do.
C. G. 101.....	NRHB	Do.	C. G. 177.....	NROJ	Do.
C. G. 102.....	NRHC	Do.	C. G. 178.....	NROK	Do.
C. G. 103.....	NRHD	Do.	C. G. 179.....	NROL	Do.
C. G. 104.....	NRHE	Do.	C. G. 180.....	NROM	Do.
C. G. 105.....	NRHG	Do.	C. G. 181.....	NROO	Do.
C. G. 106.....	NRHH	Do.	C. G. 182.....	NROP	Do.
C. G. 107.....	NRHJ	Do.	C. G. 183.....	NROQ	Do.
C. G. 108.....	NRHK	Do.	C. G. 184.....	NROU	Do.
C. G. 109.....	NRHL	Do.	C. G. 185.....	NROV	Do.
C. G. 110.....	NRHM	Do.	C. G. 186.....	NROW	Do.
C. G. 111.....	NRHO	Do.	C. G. 187.....	NROX	Do.
C. G. 112.....	NRHP	Do.	C. G. 188.....	NROY	Do.
C. G. 113.....	NRHQ	Do.	C. G. 189.....	NROZ	Do.
C. G. 114.....	NRHR	Do.	C. G. 190.....	NRAA	Do.
C. G. 115.....	NRHS	Do.	C. G. 191.....	NRAB	Do.
C. G. 116.....	NRHT	Do.	C. G. 192.....	NRAC	Do.
C. G. 117.....	NRHU	Do.	C. G. 193.....	NRAD	Do.
C. G. 118.....	NRHV	Do.	C. G. 194.....	NRAE	Do.
C. G. 119.....	NRHW	Do.	C. G. 195.....	NRAF	Do.
C. G. 120.....	NRHX	Do.	C. G. 196.....	NRAG	Do.
C. G. 121.....	NRHY	Do.	C. G. 197.....	NRAH	Do.
C. G. 122.....	NRIZ	Do.	C. G. 198.....	NRAJ	Do.
C. G. 123.....	NRJA	Do.	C. G. 199.....	NRAK	Do.
C. G. 124.....	NRJB	Do.	C. G. 200.....	NRAL	Do.
C. G. 125.....	NRJC	Do.	C. G. 201.....	NRAM	Do.
C. G. 126.....	NRJD	Do.	C. G. 202.....	NRAN	Do.
C. G. 127.....	NRJE	Do.	C. G. 203.....	NRAO	Do.
C. G. 128.....	NRJF	Do.	C. G. 204.....	NRAQ	Do.
C. G. 129.....	NRJG	Do.	C. G. 205.....	NRAU	Do.
C. G. 130.....	NRJH	Do.	C. G. 206.....	NRAV	Do.
C. G. 131.....	NRJI	Do.	C. G. 207.....	NRAW	Do.
C. G. 132.....	NRJJ	Do.	C. G. 208.....	NRAX	Do.
C. G. 133.....	NRJK	Do.	C. G. 209.....	NRAY	Do.
C. G. 134.....	NRJL	Do.	C. G. 210.....	NRAZ	Do.
C. G. 135.....	NRJM	Do.	C. G. 211.....	NRBA	Do.
C. G. 136.....	NRJN	Do.	C. G. 212.....	NRBB	Do.
C. G. 137.....	NRJO	Do.	C. G. 213.....	NRBC	Do.
C. G. 138.....	NRJP	Do.	C. G. 214.....	NRBD	Do.
C. G. 139.....			C. G. 215.....	NRBE	Do.
C. G. 140.....			C. G. 216.....	NRBF	Do.
C. G. 141.....			C. G. 217.....	NRBG	Do.
C. G. 142.....			C. G. 218.....	NRBH	Do.
C. G. 143.....			C. G. 219.....	NRBI	Do.
C. G. 144.....			C. G. 220.....	NRBJ	Do.
C. G. 145.....			C. G. 221.....	NRBK	Do.
C. G. 146.....			C. G. 222.....	NRBL	Do.
C. G. 147.....			C. G. 223.....	NRBM	Do.
C. G. 148.....			C. G. 224.....	NRBN	Do.
C. G. 149.....			C. G. 225.....	NRBO	Do.
C. G. 150.....			C. G. 226.....	NRBQ	Do.
C. G. 151.....			C. G. 227.....	NRBR	Do.
C. G. 152.....			C. G. 228.....	NRBS	Do.
C. G. 153.....			C. G. 229.....	NRBT	Do.
C. G. 154.....			C. G. 230.....	NRBV	Do.
C. G. 155.....			C. G. 231.....	NRBW	Do.
C. G. 156.....			C. G. 232.....	NRBX	Do.
C. G. 157.....			C. G. 233.....	NRBY	Do.
C. G. 158.....			C. G. 234.....	NRBZ	Do.
C. G. 159.....			C. G. 235.....	NRCB	Do.
			C. G. 236.....	NRCB	Do.
			C. G. 237.....	NRCX	Do.
			C. G. 238.....	NRCY	Do.
			C. G. 239.....	NRCZ	Do.
			C. G. 240.....	NRDA	Do.
			C. G. 241.....	NRDB	Do.
			C. G. 242.....	NRDC	Do.

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

Ship	Call signal	Owner	Ship	Call signal	Owner
C. G. 243	NRXX	U. S. Coast Guard.	Coghlan	Δ NUPK	U. S. Navy.
C. G. 244	NRXL	Do.	Colc	Δ NEST	Do.
C. G. 246	NRXM	Do.	Colhoun	Δ NAJL	Do.
C. G. 247	NRXO	Do.	Colonel George F. E. Harrison.	WYBE	U. S. Army.
C. G. 248	NRQB	Do.	Colorado	Δ NECR	U. S. Navy.
C. G. 249	NRQC	Do.	Comanche	NRFG	U. S. Coast Guard.
C. G. 250	NRXP	Do.	Concord	Δ NIRV	U. S. Navy.
C. G. 251	NRXQ	Do.	Connor	Δ NIDR	Do.
C. G. 252	NRXS	Do.	Contocook	Δ NELR	Do.
C. G. 253	NRXU	Do.	Converse	Δ NAPM	Do.
C. G. 254	NRXV	Do.	Conyngnam	Δ NRDC	U. S. Coast Guard.
C. G. 255	NRXW	Do.	Cook	Δ NIKV	Do.
C. G. 256	NRXX	Do.	Cormorant	NRKC	U. S. Navy.
C. G. 257	NRXY	Do.	Corregidor	KZAQ	Bureau of Commerce and Industry (Philippine insular Government).
C. G. 258	NRXZ	Do.	Corry	Δ NUQZ	U. S. Navy.
C. G. 259	NRYA	Do.	Corwin	Δ NRVA	U. S. Coast Guard.
C. G. 260	NRYB	Do.	Cowell	Δ NETV	U. S. Navy.
C. G. 261	NRYC	Do.	Crane	Δ NIFB	Do.
C. G. 262	NRYD	Do.	Crane	Δ WTDC	Department of Commerce, Bureau of Fisheries.
C. G. 263	NRYF	Do.	Craneship No. 1	NEDZ	U. S. Navy.
C. G. 264	NRYG	Do.	Craven	Δ NERJ	Do.
C. G. 265	NRYH	Do.	Crawford	Δ NRLJ	U. S. Coast Guard.
C. G. 266	NRYJ	Do.	Crocus	Δ WWDF	Department of Commerce, Bureau of Light-houses.
C. G. 267	NRYK	Do.	Crosby	Δ NESZ	U. S. Navy.
C. G. 268	NRYL	Do.	Crowninshield	NADF	Do.
C. G. 269	NRYM	Do.	Cuba	WYCA	U. S. Army.
C. G. 270	NRYO	Do.	Culebra	WYCL	Do.
C. G. 271	NRYP	Do.	Cummings	Δ NRDF	U. S. Coast Guard.
C. G. 272	NRYQ	Do.	Cushing	Δ NEDV	U. S. Navy.
C. G. 273	NRYS	Do.	Cuyahoga	Δ NRLK	U. S. Coast Guard.
C. G. 274	NRYU	Do.	Cuyana	Δ NERP	U. S. Navy.
C. G. 275	NRYV	Do.	Cygan	NRKB	U. S. Coast Guard.
C. G. 276	NRYW	Do.	Cypress	Δ WWCT	Department of Commerce, Bureau of Light-houses.
C. G. 277	NRYX	Do.	Dahlgren	NIRD	U. S. Navy.
C. G. 278	NRYY	Do.	Dale	Δ NUND	Do.
C. G. 279	NRYZ	Do.	Dallas	Δ NENM	Do.
C. G. 280	NRZA	Do.	Dallas	NRWB	U. S. Coast Guard.
C. G. 281	NRZB	Do.	Dan C. Kingman	WYCP	U. S. Army.
C. G. 282	NRZC	Do.	Davis	Δ NRDD	U. S. Coast Guard.
C. G. 283	NRZD	Do.	Deatur	Δ NUQV	U. S. Navy.
C. G. 284	NRZE	Do.	Dellwood	Δ WUAJ	U. S. Army.
C. G. 285	NRZF	Do.	Delta	WYCG	Do.
C. G. 286	NRZG	Do.	Denebola	NIRZ	U. S. Navy.
C. G. 287	NRZH	Do.	Dent	Δ NEGF	Do.
C. G. 288	NRZI	Do.	Denver	NAJV	Do.
C. G. 289	NRZL	Do.	Detroit	Δ NISP	Do.
C. G. 290	NRZM	Do.	Dexter	NRWD	U. S. Coast Guard.
C. G. 291	NRZO	Do.	Dickerson	Δ NAFC	U. S. Navy.
C. G. 292	NRZP	Do.	Diligence	Δ NRLM	U. S. Coast Guard.
C. G. 293	NRZQ	Do.	Discoverer	Δ NIJT	Department of Commerce, Coast and Geodetic Survey.
C. G. 294	NRZS	Do.	Dix	Δ NRLP	U. S. Coast Guard.
C. G. 295	NRZT	Do.	Dobbin	NUNR	U. S. Navy.
C. G. 296	NRZU	Do.	Dorothy	NURN	Department of Commerce, Bureau of Fisheries.
C. G. 297	NRZV	Do.	Dorsey	Δ NELG	U. S. Navy.
C. G. 298	NRZV	Do.	Downes	Δ NRDG	U. S. Coast Guard.
C. G. 299	NRZW	Do.	Drayton	Δ NAKN	U. S. Navy.
C. G. 300	NRZX	Do.	Dreadnaught	NAFQ	Do.
C. G. 301	NRZY	Do.	Dubuque	NAKP	Do.
C. G. 302	NRZZ	Do.	Duncan	NEFB	Do.
Challenge	NEKS	U. S. Navy.	Dupont	NIRF	Do.
Champlain	Δ NRUA	U. S. Coast Guard.	Dyer	NACN	Do.
Champlin	Δ NEKQ	U. S. Navy.	Eagle	Δ NRWC	U. S. Coast Guard.
Chandler	Δ NAGL	Do.			
Chase	Δ NUKM	Do.			
Chateau Thierry	Δ WUAF	U. S. Army.			
Chaumont	NISV	U. S. Navy.			
Chelan	Δ NRUB	U. S. Coast Guard			
Chemung	NARG	U. S. Navy.			
Chester	NAEV	Do.			
Chew	Δ NEMZ	Do.			
Chewink	NIJW	Do.			
Cheyenne	NAGD	Do.			
Chicago	Δ NAGM	Do.			
Childs	Δ NULN	Do.			
Cincinnati	Δ NISN	Do.			
Clarinda	Δ NUFZ	Do.			
Claxton	Δ NEQZ	Do.			
Clemson	Δ NEZT	Do.			
Coast Guard unit, general call for any or all.	NCU	Do.			

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

Ship	Call signal	Owner	Ship	Call signal	Owner
Eagle 6.....	NEJJ	U. S. Navy.	Fulton.....	NEDD	U. S. Navy.
Eagle 7.....	NEJK	Do.	Gallatin.....	NRWQ	U. S. Coast Guard.
Eagle 8.....	NEJL	Do.	Galveston.....	NANF	U. S. Navy.
Eagle 10.....	NEJN	Do.	Gamble.....Δ	NEZR	Do.
Eagle 11.....	NEJP	Do.	Gamma.....	WYCE	U. S. Army.
Eagle 12.....	NEJQ	Do.	Gannet.....	NIJX	U. S. Navy.
Eagle 14.....	NEJS	Do.	General Absalom	WYBA	U. S. Army.
Eagle 15.....	NEJT	Do.	Baird.....		
Eagle 19.....	NEKB	Do.	General Edward O.	WYAF	Do.
Eagle 22.....	NEKF	Do.	C. Ord.....		
Eagle 26.....	NEXF	Do.	General George H.	WYAI	Do.
Eagle 27.....	NEXG	Do.	Weeks.....		
Eagle 32.....	NEZJ	Do.	General Greene...Δ	NRLS	U. S. Coast Guard.
Eagle 34.....	NIBD	Do.	General G. W.	WYAK	U. S. Army.
Eagle 35.....	NIBG	Do.	Getty.....		
Eagle 36.....	NIBK	Do.	General J. Franklin	WYBB	Do.
Eagle 38.....	NIBN	Do.	Bell.....		
Eagle 39.....	NIBC	Do.	General John M.	WYAB	Do.
Eagle 40.....	NIBF	Do.	Schofield.....		
Eagle 44.....	NIBQ	Do.	General Miffin....	WYAT	Do.
Eagle 46.....	NIBS	Do.	General Richard	WYAY	Do.
Eagle 47.....	NIBT	Do.	Arnold.....		
Eagle 48.....	NIBV	D9.	General R. N.	WYAR	Do.
Eagle 51.....	NICB	Do.	Batchelder.....		
Eagle 52.....	NICC	Do.	General Robert An-	WYAH	Do.
Eagle 55.....	NICG	Do.	derson.....		
Eagle 56.....	NICJ	Do.	General Royal T.	WYAA	Do.
Eagle 57.....	NICK	Do.	Frank.....Δ		
Eagle 58.....	NICL	Do.	General William M.	WYBD	Do.
Eagle 59.....	NICM	Do.	Graham.....		
Eagle 60.....	NICN	Do.	Genessee.....	NEKD	U. S. Navy.
Eadsall.....Δ	NUPM	Do.	Gillis.....Δ	NERR	Do.
Ed. J. Howard.....	WYDF	U. S. Army.	Gilmer.....Δ	NERB	Do.
Edwards.....Δ	NIGL	U. S. Navy.	Goff.....Δ	NUQF	Do.
Edwards, John D.....	NUPC	Do.	Goldsborough.....Δ	NAPT	Do.
Eider.....	NIKR	Do.	Gold Star.....	NASF	Do.
Eider.....	WTDD	Department of	Gouverneur.....	WYDH	U. S. Army.
		Commerce, Bu-	Grant.....Δ	WUAG	Do.
		reau of Fisheries.	Grabe.....	NIKX	U. S. Navy.
Elcano.....	NAKS	U. S. Navy.	Greene.....Δ	NIGM	Do.
Elliott.....Δ	NERV	Do.	Greer.....Δ	NERT	Do.
Ellis.....Δ	NIFD	Do.	Gregory.....Δ	NAJR	Do.
Elsie.....	NIZM	Department of	Gresham.....Δ	NRCG	U. S. Coast Guard.
		Commerce, Coast	Gridley.....Δ	NEMX	U. S. Navy.
		and Geodetic	Griffith.....	WY CZ	U. S. Army.
		Survey.	Guam.....	NECS	U. S. Navy.
Eriessson.....Δ	NRDH	U. S. Coast Guard.	Guide.....Δ	NIJN	Department of
Essex.....	NEPN	U. S. Navy.			Commerce,
Evans.....Δ	NEMS	Do.			Coast and Geo-
Ewing.....Δ	NRPC	U. S. Coast Guard.			detic Survey.
Explorer.....	NAVM	Department of	Gwin.....Δ	NAGX	U. S. Navy.
		Commerce,	H-2.....	NIFF	Do.
		Coast and Geo-	H-3.....	NERF	Do.
		detic Survey.	H-4.....	NEQM	Do.
Fairfax.....Δ	NIJC	U. S. Navy.	H-5.....	NETG	Do.
Falcon.....	NEKN	Do.	H-6.....	NEFC	Do.
Fanning.....Δ	NRGF	U. S. Coast Guard.	H-7.....	NESJ	Do.
Farquhar.....Δ	NANZ	U. S. Navy.	H-8.....	NELN	Do.
Farragut.....Δ	NIQR	Do.	H-9.....	NEBV	Do.
Fathomer.....	NESR	Department of	Haida.....Δ	NRUH	U. S. Coast Guard.
		Commerce,	Hale.....Δ	NACL	U. S. Navy.
		Coast and Geo-	Hamilton.....Δ	NIFL	Do.
		detic Survey.	Hamilton, Alexan-	NRCH	U. S. Coast Guard.
Faunce.....Δ	NRLQ	U. S. Coast Guard.	der.....		
Fern.....	WWDN	Department of	Hannibal.....	NAQV	U. S. Navy.
		Commerce, Bu-	Haraden.....Δ	NEZZ	Do.
		reau of Light-	Harbor Trader....	NUXS	Treasury Depart-
		houses.			ment, Bureau of
F. H. Hilliard.....	WYCM	U. S. Army.	Harding.....Δ	NEMV	Customs.
Finch.....	NAJP	U. S. Navy.	Harriet Lane.....Δ	NRLU	U. S. Coast Guard.
Florence.....	NRFK	U. S. Coast Guard.	Hart.....Δ	NENV	U. S. Navy.
Florida.....Δ	NAMB	U. S. Navy.	Hatfield.....Δ	NEZV	Do.
Flusser.....Δ	NUNF	Do.	Hawk.....	NAPS	Do.
Footo.....Δ	NIRJ	Do.	Hazelwood.....Δ	NENS	Do.
Ford, John D.....Δ	NUQJ	Do.	Heather.....	WWDQ	Department of
Fort Chartres.....	WYDE	U. S. Army.			Commerce, Bu-
Fort Gage.....	WYDD	Do.			reau of Light-
Forward.....Δ	NRWF	U. S. Coast Guard.			houses.
Fox.....Δ	NIRQ	U. S. Navy.	Helena.....	NASC	U. S. Navy.
Frederick Lee.....Δ	NRLR	U. S. Coast Guard.			

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

Ship	Call signal	Owner	Ship	Call signal	Owner
Helianthus.....	NIZN	Department of Commerce, Coast and Geodetic Survey.	Kaweah.....	NUGK	U. S. Navy.
Henderson.....	NESD	U. S. Navy.	Kennedy.....	NAZM	Do.
Henley.....	NRGH	U. S. Coast Guard.	Kennison.....	NEQX	Do.
Henry County.....	NIJB	U. S. Navy.	Kenowis.....	WUAK	U. S. Army.
Henry Flad.....	WYCH	U. S. Army.	Keosauqua.....	NEXC	U. S. Navy.
Henshaw.....	NUJQ	U. S. Navy.	Kewaydin.....	NAXN	Do.
Herbert.....	NEMJ	Do.	Kiekapoo.....	NRFK	U. S. Coast Guard.
Herndon.....	NENJ	Do.	Kidder.....	NUJX	U. S. Navy.
Heron.....	NENL	Do.	Kilkenny.....	WRCX	Department of Commerce, Bureau of Navigation.
Hibiscus.....	WWCA	Department of Commerce, Bureau of Light-houses.	Kilty.....	NAKX	U. S. Navy.
		U. S. Navy.	Kimball.....	NRLW	U. S. Coast Guard.
Hogan.....	NEXT	Do.	Kimberly.....	NADL	U. S. Navy.
Holland.....	NIRM	Do.	King.....	NULP	Do.
Hopewell.....	NEXX	Do.	Kingfisher.....	NALP	Do.
Hopkins.....	NUQM	Do.	Kittery.....	NECX	Do.
Houston.....	NIQF	Do.	Kittiwake.....	WTDG	Department of Commerce, Bureau of Fisheries.
Hovey.....	NEPB	Do.			
Howard.....	NIFM	Do.	Koka.....	NETZ	U. S. Navy.
H. S. Taber.....	WYCW	U. S. Army.	Kukui.....	WWDX	Department of Commerce, Bureau of Light-houses.
Hudson.....	NRKH	U. S. Coast Guard.			
Hulbert.....	NUCD	U. S. Navy.	L-2.....	NELZ	U. S. Navy.
Hull.....	NUCT	Do.	L-3.....	NEKK	Do.
Humphreys.....	NUKX	Do.	L-9.....	NEGS	Do.
Hunt.....	NUJF	Do.	L-11.....	NEFF	Do.
Hyacinth.....	WWDK	Department of Commerce, Bureau of Light-houses.	Lamberton.....	NAZL	Do.
		U. S. Navy.	Lamson.....	NUNC	Do.
Idaho.....	NAVX	Department of Commerce, Bureau of Light-houses.	Langley.....	NEQC	Do.
Ilex.....	WWCB	U. S. Navy.	Lansdale.....	NERL	Do.
		Department of Commerce, Bureau of Light-houses.	Lapwing.....	NALC	Do.
Inca.....	NESN	U. S. Navy.	Larimie.....	NUGL	Do.
Indianapolis.....	NABD	Do.	Lardner.....	NUPF	Do.
Ingraham.....	NENX	Do.	Lark.....	NIJK	Do.
Ingram, Osmund.....	NIGF	Do.	Larkspur.....	WWCI	Department of Commerce, Bureau of Light-houses.
Inspector.....	WYCB	U. S. Army.			
International Ice Patrol.....	NIDK	U. S. Coast Guard.	Laub.....	NIGJ	U. S. Navy.
Iota.....	WYCF	U. S. Army.	La Vallette.....	NUJT	Do.
Isabel.....	NASG	U. S. Navy.	Lawrence.....	NUQQ	Do.
Isherwood.....	NUNV	Do.	Lea.....	NETF	Do.
Israel.....	NENG	Do.	Leary.....	NAFL	Do.
Itasca.....	NRUI	U. S. Coast Guard.	Legare.....	NRLX	U. S. Coast Guard.
Iuka.....	NEVR	U. S. Navy.	Lexington.....	NIKM	U. S. Navy.
Ivy.....	WWCW	Department of Commerce, Bureau of Light-houses.	Litchfield.....	NUMM	Do.
		U. S. Coast Guard.	Little.....	NEZM	Do.
		U. S. Navy.	Long.....	NEPL	Do.
		Department of Commerce, Bureau of Light-houses.	Lotus.....	WWCF	Department of Commerce, Bureau of Light-houses.
Jackson.....	NRLV	U. S. Coast Guard.			
James, Reuben.....	NUNT	U. S. Navy.	Louisville.....	NIFT	U. S. Navy.
Jarvis.....	NEDK	Do.	Lt. Col. Herman C. Schumm.....	WYBS	U. S. Army.
Jason.....	NEQB	Do.			
Jenkins.....	NEDL	Do.	Luce.....	NEGD	U. S. Navy.
John Ewens.....	WYCK	U. S. Army.	Ludlow.....	NENZ	Do.
Jones, Jacob.....	NEPZ	U. S. Navy.	Lupine.....	WWDU	Department of Commerce, Bureau of Light-houses.
Jones, Paul.....	NUQN	Do.			
Jones, William.....	NARR	Do.	Luzon.....	NEGJ	U. S. Navy.
Joseph Henry.....	WYAC	U. S. Army.	Lydonia.....	NAJT	Department of Commerce, Coast and Geodetic Survey.
Jouett.....	NRGJ	U. S. Coast Guard.			
Jupiter.....	WYCC	U. S. Army.			
K-1.....	NEPP	U. S. Navy.			
K-2.....	NELD	Do.			
K-3.....	NELF	Do.			
K-4.....	NELM	Do.			
K-5.....	NELP	Do.	Lykens.....	NALK	U. S. Navy.
K-6.....	NELQ	Do.	Mackenzie.....	NEVX	Do.
K-7.....	NELS	Do.	Mackinnac.....	NRKQ	U. S. Coast Guard.
K-8.....	NELT	Do.	Macleish.....	NUPT	U. S. Navy.
Kalk.....	NIGD	Do.	Maddox.....	NETX	Do.
Kalnia.....	NAZS	Do.	Magnolia.....	WWCY	Department of Commerce, Bureau of Light-houses.
Kanawha.....	NEQD	Do.			
Kane.....	NULM	U. S. Navy.			

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

Ship	Call signal	Owner	Ship	Call signal	Owner
Mahan.....Δ	NEQK	U. S. Navy.	Mississippi.....Δ	NEKT	U. S. Navy.
Mahoning.....	NRWJ	U. S. Coast Guard.	Mississippi.....?	WYCT	U. S. Army.
Mahopac.....	NETD	U. S. Navy.	Missoula.....	NEKR	U. S. Navy.
Maj. Albert G. Jenkins.	WYBV	U. S. Army.	Mitchell.....	NIZR	Department of Commerce, Coast and Geodetic Survey.
Maj. Evan Thomas.	WYAO	Do.	Modoc.....Δ	NRUQ	U. S. Coast Guard.
Maj. William P. Pence, jr.	WYBV	Do.	Mohawk.....	NUPB	U. S. Navy.
Mallard.....	NIKB	U. S. Navy.	Mojave.....Δ	NRUM	U. S. Coast Guard.
Mangrove.....Δ	WWCU	Department of Commerce, Bureau of Light-houses.	Monaghan.....Δ	NRGM	Do.
Manhattan.....	NRFL	U. S. Coast Guard.	Monocacy.....	NETN	U. S. Navy.
Manley.....Δ	NIDP	U. S. Navy.	Montcalm.....	NEQF	Do.
Manning.....Δ	NRCM	U. S. Coast Guard.	Montgomery.....Δ	NAXJ	Do.
Manzanita.....Δ	WWDR	Department of Commerce, Bureau of Light-houses.	Do.....	NRPG	U. S. Coast Guard.
Maple.....	WWCN	Do.	Moody.....Δ	NULT	U. S. Navy.
Marblehead.....Δ	NIRR	U. S. Navy.	Morgan-Lewis.....	WYCR	U. S. Army.
Marcus.....Δ	NUMG	Do.	Morris.....Δ	NITS	U. S. Navy.
Marigold.....Δ	WWDH	Department of Commerce, Bureau of Light-houses.	Do.....Δ	NRPF	U. S. Coast Guard.
Marindin.....	NIZP	Department of Commerce, Coast and Geodetic Survey.	Mugford.....Δ	NEXR	U. S. Navy.
Marinduque.....	NIGV	Do.	Mullany.....Δ	NUML	Do.
Marion.....Δ	NRLY	U. S. Coast Guard.	Murray.....Δ	NAXK	Do.
Maryland.....Δ	NARC	U. S. Navy.	N-1.....	NEDS	Do.
Mascoutin.....Δ	NRFM	U. S. Coast Guard.	N-2.....	NAJJ	Do.
Mason.....Δ	NAGG	U. S. Navy.	N-3.....	NAKK	Do.
Mattole.....	NUGM	Do.	Nansemond.....	NRWK	U. S. Coast Guard.
Maumee.....	NEQL	Do.	Nantucket.....	NAMS	U. S. Navy. ⁵
Maury.....Δ	NEFG	Do.	Napa.....	NEVC	Do.
Mayflower.....	WWCP	Department of Commerce, Bureau of Light-houses.	Narragansett.....	NEKL	Do.
Mayrant.....Δ	NEGX	U. S. Navy.	Natoma.....	NUGG	Department of Commerce, Coast and Geodetic Survey.
McCall.....Δ	NRGL	U. S. Coast Guard.	Naugatuck.....	NRWL	U. S. Coast Guard.
McCalla.....Δ	NIGC	U. S. Navy.	Navajo.....	NEMR	U. S. Navy.
McCawley.....Δ	NULS	Do.	Naval ship station, general call for any or all.	NERK	Do.
McCook.....Δ	NIGB	Do.	Navigator.....	NECD	Do.
McCormick.....Δ	NUPZ	Do.	Neches.....	NIFP	Do.
McDermut.....Δ	NIGG	Do.	Nemaha.....Δ	NR LZ	U. S. Coast Guard.
McDougal.....Δ	NRDM	U. S. Coast Guard.	Neptune.....	NEPM	U. S. Navy.
McFarland.....Δ	NETB	U. S. Navy.	Nereus.....	NEQP	Do.
McKean.....Δ	NEMT	Do.	Nevada.....Δ	NADK	Do.
McKee.....Δ	NACQ	Do.	New Mexico.....Δ	NEVN	Do.
McLanahan.....Δ	NIGK	Do.	Newport.....	NENQ	Do. ⁶
McLane.....Δ	NRPD	U. S. Coast Guard.	New York.....Δ	NADT	Do.
Meade.....Δ	NEBJ	U. S. Navy.	Niagara.....	NABC	Do.
Medusa.....	NEMC	Do.	Nicholson.....Δ	NEFR	Do.
Meigs.....Δ	WUAC	U. S. Army.	Nitro.....	NELL	Do.
Melville.....	NEJX	U. S. Navy.	Noa.....Δ	NUKF	Do.
Melvin.....Δ	NURC	Do.	Nokomis.....	NAMM	Do.
Memphis.....Δ	NISS	Do.	Northampton.....	NEFX	Do.
Mendota.....Δ	NATM	Do.	North Dakota.....	NEPL	Do.
Mendota.....Δ	NRUF	U. S. Coast Guard.	Northland.....Δ	NRUL	U. S. Coast Guard.
Mercy.....	NEKM	U. S. Navy.	O-1.....	NEXJ	U. S. Navy.
Meredith.....Δ	NETS	Do.	O-2.....	NETJ	Do.
Merritt.....	WUAH	U. S. Army.	O-3.....	NAMR	Do.
Mervine.....Δ	NUMJ	U. S. Navy.	O-4.....	NAMX	Do.
Meyer.....Δ	NURJ	Do.	O-6.....	NANB	Do.
Mikawe.....	NIZQ	Department of Commerce, Coast and Geodetic Survey.	O-7.....	NANC	Do.
Miley.....	WYAJ	U. S. Army.	O-8.....	NAND	Do.
Milwaukee.....Δ	NISM	U. S. Navy.	O-9.....	NAGB	Do.
Mindanao.....	NEPC	Do.	O-10.....	NAXT	Do.
Mindoro.....	KZAR	Bureau of Customs (Philippine insular government).	O-12.....	NETL	Do.
			Oahu.....	NEFN	Do.
			O'Bannon.....Δ	NEXS	Do.
			O'Brien.....Δ	NEFV	Do.
			Oceanographer.....	NEDF	Department of Commerce, Coast and Geodetic Survey.
			Ogden.....	NIZS	Do.
			Oglala.....	NEPJ	U. S. Navy.
			Oklahoma.....Δ	NADN	Do.
			Old Constellation.....	NEPR	Do.
			Olympia.....	NANT	Do.
			Omaha.....Δ	NISL	Do.
			Omega.....	WYCV	U. S. Army.

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

Ship	Call signal	Owner	Ship	Call signal	Owner
S-18.....	NINF	U. S. Navy.	Shubrick.....	NIXD	U. S. Navy.
S-19.....	NING	Do.	Sicard.....△	NUPL	Do.
S-20.....	NINJ	Do.	Sigourney.....△	NAJB	Do.
S-21.....	NINK	Do.	Simpson.....△	NUPX	Do.
S-22.....	NINL	Do.	Sinclair.....△	NULR	Do.
S-23.....	NINM	Do.	Sirius.....	NUPP	Do.
S-24.....	NINN	Do.	Sloot.....△	NUMD	Do.
S-25.....	NINP	Do.	Slocum.....	WYAV	U. S. Army.
S-26.....	NINQ	Do.	Smith.....	NRKS	U. S. Coast Guard.
S-27.....	NINR	Do.	Snohomish.....△	NRFU	Do.
S-28.....	NINS	Do.	Solace.....	NIDT	U. S. Navy.
S-29.....	NINT	Do.	Somers.....△	NIZX	Do.
S-30.....	NINV	Do.	Sonne.....△	WUAB	U. S. Army.
S-31.....	NINX	Do.	Sonoma.....	NIGT	U. S. Navy.
S-32.....	NINZ	Do.	Sotoyomo.....	NECZ	Do.
S-33.....	NIPB	Do.	Southard.....△	NAJK	Do.
S-34.....	NIPC	Do.	Speedwell.....△	WWCQ	Department of Commerce, Bu- reau of Light- houses.
S-35.....	NIPD	Do.	Spica.....	NURD	U. S. Navy.
S-36.....	NIPF	Do.	Sprigg Carroll.....	WYCS	U. S. Army.
S-37.....	NIPG	Do.	Sproston.....△	NEVT	U. S. Navy.
S-38.....	NIPJ	Do.	Spruce.....△	WWCJ	Department of Commerce, Bu- reau of Light- houses.
S-39.....	NIPK	Do.	Stansbury.....△	NEXV	U. S. Navy.
S-40.....	NIPL	Do.	Sterrett.....△	NIDZ	Do.
S-41.....	NIPM	Do.	Stevens.....△	NAPK	Do.
S-42.....	NIPN	Do.	Stewart.....△	NUNN	Do.
S-43.....	NIPP	Do.	St. Michel.....△	WUAD	U. S. Army.
S-44.....	NIPQ	Do.	Stockton.....△	NAKL	U. S. Navy.
S-45.....	NIPR	Do.	Stoddert.....△	NALZ	Do.
S-46.....	NIPS	Do.	Stribling.....△	NAVZ	Do.
S-47.....	NIPT	Do.	Stringham.....△	NACP	Do.
S-48.....	NIPV	Do.	Starkevaut.....△	NIJP	Do.
S-49.....	NIPX	Do.	S. C. 57.....	NODF	Do.
S-50.....	NIPZ	Do.	S. C. 63.....	NODN	Do.
Sacramento.....△	NEVJ	Do.	S. C. 64.....	NODP	Do.
Sagamore.....	NANX	Do.	S. C. 102.....	NOGL	Do.
Saius.....	NUGR	Do.	S. C. 103.....	NOGM	Do.
Salt Lake City.....△	NISK	Do.	S. C. 143.....	NOKN	Do.
Sampson.....△	NELC	Do.	S. C. 185.....	NOMD	Do.
Sanderling.....	NIJS	Do.	S. C. 192.....	NOMN	Do.
Sandpiper.....	NIKK	Do.	S. C. 223.....	NOPF	Do.
Sands.....△	NULQ	Do.	S. C. 224.....	NOPG	Do.
San Francisco.....	NIJZ	Do.	S. C. 229.....	NOPN	Do.
San Pablo.....	WYBC	U. S. Army.	S. C. 231.....	NOPQ	Do.
San Pedro.....	WYAU	Do.	S. C. 271.....	NORS	Do.
Sapelo.....	NUGS	U. S. Navy.	S. C. 306.....	NOTR	Do.
Saranac.....	NRUK	U. S. Coast Guard.	S. C. 326.....	NOVL	Do.
Saratoga.....△	NEJB	U. S. Navy.	S. C. 328.....	NOVN	Do.
Satterlee.....△	NAGC	Do.	S. C. 330.....	NOVQ	Do.
Saturn.....	WYCD	U. S. Army.	S. C. 353.....	NOXS	Do.
Saukee.....△	NRFW	U. S. Coast Guard.	S. C. 412.....	NOZJ	Do.
Savannah.....	NAQL	U. S. Navy.	S. C. 431.....	NOPR	Do.
Scandinavia.....	NIZV	Department of Commerce, Coast and Geo- detic Survey.	S. C. 432.....	NIQL	Do.
Schenck.....△	NEMG	U. S. Navy.	S. C. 433.....	NOPZ	Do.
Schley.....△	NELJ	Do.	S. C. 437.....	NOQQ	Do.
Sciota.....	NEVK	Do.	S. C. 440.....	NIQV	Do.
Scoter.....	WTFD	Department of Commerce, Bu- reau of Fisheries.	Sumac.....△	WWDL	Department of Commerce, Bu- reau of Light- houses.
Seagull.....	NIJM	U. S. Navy.	Sumner.....△	NUQX	U. S. Navy.
Seal.....	WWFA	Alaskan Game Commission.	Sunflower.....	WWCZ	Department of Commerce, Bu- reau of Light- houses.
Seattle.....△	NAPG	U. S. Navy.	Sunnadin.....	NEVB	U. S. Navy.
Sebago.....	NRUS	U. S. Coast Guard.	Surveyor.....	NEVG	Department of Commerce, Coast and Geo- detic Survey.
Selfridge.....△	NUJZ	U. S. Navy.	Swallow.....	NEFL	U. S. Navy.
Seminole.....△	NRCW	U. S. Coast Guard.	Swan.....	NIJP	Do.
Semmes.....△	NAFZ	U. S. Navy.	Swasey.....△	NIQP	Do.
Seneca.....△	NRCS	U. S. Coast Guard.	T-1.....	NILB	Do.
Sepulga.....	NUGT	U. S. Navy.	T-2.....	NABB	Do.
Sequoia.....△	WWDV	Department of Commerce, Bu- reau of Light- houses.			
Sharkey.....△	NULV	U. S. Navy.			
Shaw.....△	NRDS	U. S. Coast Guard.			
Shawnee.....△	NRFS	Do.			
Shirk.....△	NUJV	U. S. Navy.			
Shoshone.....	NRUV	U. S. Coast Guard.			

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

Ship	Call signal	Owner	Ship	Call signal	Owner
T-3.....	NABZ	U. S. Vavy.	U. S. Customs pa- trol boat No. 538.	NUXB	Treasury Depart- ment, Bureau of Customs.
Tadousac.....	NAZQ	Do.	Utah.....	NIQJ	U. S. Navy.
Tahoe.....	NRUD	U. S. Coast Guard.	V-1.....	NICQ	Do.
Talbot.....	NAPL	U. S. Navy.	V-2.....	NICR	Do.
Talbot, J. Fred.....	NICV	Do.	V-3.....	NICS	Do.
Talapoosa.....	NRGV	U. S. Coast Guard.	V-4.....	NICT	Do.
Tamaroa.....	NRVU	Do.	V-5.....	NICV	Do.
Tampa.....	NRUG	Do.	V-6.....	NICX	Do.
Tanager.....	NABS	U. S. Navy.	V-7.....	NICZ	Do.
Tarbell.....	NEZP	Do.	V-8.....	NIDD	Do.
Tatnuck.....	NETQ	Do.	V-9.....	NIDJ	Do.
Tattnall.....	NEPS	Do.	Vega.....	NAXM	Do.
Taylor.....	NALR	Do.	Vestal.....	NENK	Do.
Teal.....	NAPN	Do.	Vigilant.....	NRMG	U. S. Coast Guard.
Teal.....	WTDE	Department of Commerce, Bu- reau of Fisheries.	Villalobos.....	NIQP	U. S. Navy.
Tecumseh.....	WYDC	U. S. Army.	Vireo.....	NIKL	Do.
Tennessee.....	NIDN	U. S. Navy.	Virginia I.....	NRKL	U. S. Coast Guard.
Tern.....	NIRT	Do.	Wadsworth.....	NEMK	U. S. Navy.
Terry.....	NRGU	U. S. Coast Guard.	Wainwright.....	NRDW	U. S. Coast Guard.
Texas.....	NADV	U. S. Navy.	Walke.....	NITQ	U. S. Navy.
Thatcher.....	NESV	Do.	Walker.....	NESX	Do.
Thomas.....	NIFN	Do.	Wandank.....	NARF	Do.
Thomas.....	WUAI	U. S. Army.	Wando.....	NEGQ	Do.
Thompson.....	NAZC	U. S. Navy.	Ward.....	NAGS	Do.
Thompson, Sara.....	NEMD	Do.	Ward, Aaron.....	NELX	Do.
Thompson, Smith.....	NUJJ	Do.	Warrington.....	NITG	Do.
Thornton.....	NIZZ	Do.	Wasmuth.....	NUKQ	Do.
Thrush.....	NIKS	Do.	Waters.....	NATT	Do.
Tiger.....	NRMD	U. S. Coast Guard.	Welles.....	NAJZ	Do.
Tillamook.....	NECB	U. S. Navy.	West Memphis.....	WYCJ	U. S. Army.
Tillmau.....	NEQT	Do.	West Virginia.....	NEDJ	U. S. Navy.
Tingau.....	NRKK	U. S. Coast Guard.	Wheeling.....	NIRP	Do.
Tingey.....	NISG	U. S. Navy.	Whipple.....	NUNL	Do.
Tippecanoe.....	NIUV	Do.	Whippoorwill.....	NIJQ	Do.
Torpedo Test Barge No. 1.....	NIFR	Do.	Whitney.....	NIRL	Do.
Torpedo Test Barge No. 2.....	NIFS	Do.	Wickes.....	NATJ	Do.
Torpedo Test Barge No. 3.....	NIFX	Do.	Widgeon.....	NAQF	Do.
Torpedo Test Barge No. 4.....	NIFZ	Do.	Wildcat.....	NIVM	Department of Commerce, Coast and Geodetic Survey.
Toucey.....	NULX	Do.	Wilkes.....	NRDV	U. S. Coast Guard.
Tracy.....	NUJJ	Do.	Willetts Point.....	WYCX	U. S. Army.
Travis.....	NRMF	U. S. Coast Guard.	Williams.....	NENT	U. S. Navy.
Trenton.....	NISR	U. S. Navy.	Williamson.....	NUNS	Do.
Trevor.....	NUMP	Do.	Willmette.....	NAVD	Do.
Trinity.....	NUMX	Do.	Willow.....	WWDW	Department of Commerce, Bu- reau of Light- houses.
Trippe.....	NRGV	U. S. Coast Guard.	Wilmington.....	NIRS	U. S. Navy.
Truxton.....	NUQK	U. S. Navy.	Winstow.....	NEGM	Do.
Tucker.....	NRDU	U. S. Coast Guard.	Wissahickon.....	NRKM	U. S. Coast Guard.
Tulip.....	WWCH	Department of Commerce, Bu- reau of Light- houses.	W. L. Marshall.....	WYCO	U. S. Army.
Tulsa.....	NIST	U. S. Navy.	Wm. T. Russell.....	WYCQ	Do.
Turner.....	NJIF	Do.	Wolcott.....	NRWU	U. S. Coast Guard.
Turner.....	NERQ	Do.	Wompatuck.....	NIQN	U. S. Navy.
Tuscumbia.....	WYCY	U. S. Army.	Wood.....	NUMF	Do.
Tuscarora.....	NRQO	U. S. Coast Guard.	Wood, Welborn C.....	NULJ	Do.
Tutuila.....	NEKC	U. S. Navy.	Woodbury.....	NRMJ	U. S. Coast Guard.
Twigs.....	NEPV	Do.	Woodcock.....	NIKP	U. S. Navy.
Unaqua.....	NATS	Do.	Worden.....	NUMN	Do.
Unadilla.....	NEFT	Do.	Wright.....	NIRN	Do.
Unalga.....	NRUC	U. S. Coast Guard.	Wyoming.....	NIFR	Do.
Undaunted.....	NERD	U. S. Navy.	Yamacraw.....	NRCY	U. S. Coast Guard.
Upshur.....	NEPS	Do.	Yarborough.....	NUMC	U. S. Navy.
Upshur, Abel P.....	NUJD	Do.	Yarnall.....	NIGS	Do.
U. S. Customs pa- trol boat No. 522.	NUXZ	Treasury Depart- ment, Bureau of Customs.	Yeaton.....	NRMP	U. S. Coast Guard.
			Yukon.....	NAQD	U. S. Navy.
			Zane.....	NUMN	Do.

1 Operated by State of Pennsylvania.

2 Operated by Department of Interior, Bureau of Education, accounts settled by R. M. C. A.

3 Operated by New York Naval Militia.

4 Call used by any vessel assigned to this duty.

5 Operated by State of Massachusetts.

6 Operated by State of New York.

GOVERNMENT AIRCRAFT STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Station	Call signal	Frequency in kilocycles (meters in parentheses)	Hours	Owner
Akron (rigid airship)	NZRLB			U. S. Navy.
Arizona—any aircraft attached to U. S. S.	NVMGY			Do.
Arkansas—any aircraft attached to U. S. S.	NVMILL			Do.
Augusta—any aircraft attached to U. S. S.	NVMAF			Do.
California—any aircraft attached to U. S. S.	NVMBG			Do.
Chester—any aircraft attached to U. S. S.	NVMAM			Do.
Chicago—any aircraft attached to U. S. S.	NVMAG			Do.
Cincinnati—any aircraft attached to U. S. S.	NVMAC			Do.
Colorado—any aircraft attached to U. S. S.	NVMFA			Do.
Concord—any aircraft attached to U. S. S.	NVMDK			Do.
Detroit—any aircraft attached to U. S. S.	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.
Florida—any aircraft attached to U. S. S.	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.
Houston—any aircraft attached to U. S. S.	NVMAL			Do.
Idaho—any aircraft attached to U. S. S.	NVMCH			Do.
Indianapolis—any aircraft attached to U. S. S.	NVMBD			Do.
J-3 (nonrigid airship)	NZNJT			Do.
J-4 (nonrigid airship)	NZNJF			Do.
Jason—any aircraft attached to U. S. S.	NVMAD			Do.
Langley—any aircraft attached to U. S. S.	NVMVR			Do.
Lexington—any aircraft attached to U. S. S.	NVMPO			Do.
Louisville—any aircraft attached to U. S. S.	NVMAH			Do.
Los Angeles (rigid airship)	NZRLA			Do.
Marblehead—any aircraft attached to U. S. S.	NVMDF			Do.
Maryland—any aircraft attached to U. S. S.	NVMDJ			Do.
Modena—any aircraft attached to U. S. S.	NVMWM			Do.
Memphis—any aircraft attached to U. S. S.	NVMFL			Do.
Milwaukee—any aircraft attached to U. S. S.	NVMWB			Do.
Mississippi—any aircraft attached to U. S. S.	NVMID			Do.
Nevada—any aircraft attached to U. S. S.	NVMHC			Do.
New Mexico—any aircraft attached to U. S. S.	NVMJK			Do.
New York—any aircraft attached to U. S. S.	NVMKL			Do.
Ninth naval district—any aircraft attached to	NVMGK			Do.
Northampton—any aircraft attached to U. S. S.	NVMAN			Do.
Oklahoma—any aircraft attached to U. S. S.	NVMBF			Do.
Omaha—any aircraft attached to U. S. S.	NVMQG			Do.
Patoka—any aircraft attached to U. S. S.	NVMHB			Do.
Pensacola—any aircraft attached to U. S. S.	NVMAU			Do.
Raleigh—any aircraft attached to U. S. S.	NVMVC			Do.
Richmond—any aircraft attached to U. S. S.	NVMNS			Do.
Salt Lake City—any aircraft attached to U. S. S.	NVMAP			Do.
Saratoga—any aircraft attached to U. S. S.	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.
Tennessee—any aircraft attached to U. S. S.	NVMLN			Do.
Texas—any aircraft attached to U. S. S.	NVMAB			Do.
Third naval district—any aircraft attached to	NVMGB			Do.
Thirteenth naval district—any aircraft attached to	NVMGP			Do.
Trenton—any aircraft attached to U. S. S.	NVMXA			Do.
Twelfth naval district—any aircraft attached to	NVMGM			Do.
Utah—any aircraft attached to U. S. S.	NVMVP			Do.
West Virginia—any aircraft attached to U. S. S.	NVMNP			Do.
Wright—any aircraft attached to U. S. S.	NVMND			Do.
Wyoming—any aircraft attached to U. S. S.	NVMKN			Do.

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' 30'' N., long. 70° 05' 38'' W. Transmits groups of 1 dash, 1 dot, and 1 dash, thus—

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

BOSTON LIGHTSHIP, Mass., lat. 42° 20' 22'' N., long. 70° 45' 26'' W. Transmits groups of 2 dashes and 2 dots, thus—

- - . . - - . . - - . . 60 seconds	Silent 120 seconds
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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 LIGHTHOUSE, Mass., lat. 42° 02' 23'' N., long. 70° 03' 37'' W. Transmits groups of 2 dashes and 1 dot, thus—

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

Transmits in clear weather from 1 to 1.30 and 7 to 7.30 a. m. and p. m. on 305 kc. (963.9 m.).

CAPE COD CANAL LIGHTHOUSE, Mass., lat. 70° 29' 00'' N., long. 41° 47' 00'' W. Transmits groups of 2 dots and 1 dash, thus—

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

POLLOCK RIP LIGHTSHIP, Mass., lat. 41° 36' 05'' N., long. 69° 51' 05'' W. Transmits groups of 1 dash, 2 dots and 1 dash, thus—

- . . - - . . - - . . - 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° 22' 47'' N., long. 71° 00' 00'' W. Transmits groups of 1 dot and 2 dashes, thus—

. - - . - - . - - 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' 02'', long. 69° 37' 06'' W.
Transmits groups of 4 dashes, thus—

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

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

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

LITTLE GULL LIGHT STATION, N. Y., lat. 41° 12' 23'' N., long. 72° 06' 26'' W.
Transmits groups of 1 dot and 3 dashes, thus—

60 seconds	Silent 15 seconds
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Transmits daily in clear weather from 11 p. m. to 1 a. m., and from 12 noon to 12.30 p. m. on 290 kc. (1,034 m.).

STRATFORD SHOAL LIGHT STATION, N. Y., lat. 41° 03' 36'' N., long. 73° 06' 06'' W.
Transmits groups of 1 dot, 2 dashes, and 1 dot, thus—

60 seconds	Silent 30 seconds
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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° 52' 41'' N., long. 73° 44' 17'' W.
Transmits groups of 1 dash, 1 dot, and 1 dash, thus—

60 seconds	Silent 15 seconds
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Transmits daily in clear weather from 5 to 6.30 a. m., from 12 noon to 12.30 p. m., and from 6.30 to 7.30 p. m. on 290 kc. (1,034 m.).

FIRE ISLAND LIGHTSHIP, N. Y., lat. 40° 28' 40'' N., long. 73° 11' 26'' W.
Transmits groups of 2 dashes, thus—

60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 5.30 to 6 and 11.30 to 12 a. m. and p. m. on 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° 27' 06'' N., long. 73° 49' 22'' W.
Transmits single dots, thus—

60 seconds	Silent 120 seconds
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Transmits in clear weather second 15 minutes 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 WRG.

BARNEGAT LIGHTSHIP, N. J., lat. 39° 45' 45'' N., long. 73° 56' 00'' W.
Transmits groups of 3 dashes, thus—

60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 12.30 to 1 and 6.30 to 7 a. m. and p. m. on 300 kc. (1,000 m.).

FIVE FATHOM BANK LIGHTSHIP, N. J., lat. 38° 47' 16'' N., long. 74° 34' 33'' W.
Transmits groups of 2 dots and 2 dashes, thus—

60 seconds	Silent 120 seconds
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Transmits in clear weather second 15 minutes 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 9.15 p. m. in clear weather only. Call WRE.

OVERFALLS LIGHTSHIP, Del., lat. 38° 47' 57'' N., long. 75° 01' 24'' W. Transmits groups of 1 dot, 1 dash and 1 dot, thus—

. 60 seconds	Silent 120 seconds
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Transmits the second 15 minutes of each hour on 290 kc. (1,034 m.).

WINTER QUARTER SHOAL LIGHTSHIP, Va., lat. 37° 55' 25'' N., long. 74° 56' 22'' W. Transmits groups of 3 dashes and 1 dot, thus—

- - - - . - - - - . - - - - . 60 seconds	Silent 120 seconds
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Transmits in clear weather 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 9.15 p. m. in clear weather. Call WRO.

COVE POINT LIGHT STATION, Md., lat. 38° 23' 10'' N., long. 76° 22' 55'' W. Transmits groups of 1 dot and 2 dashes, thus—

. 60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 5 to 5.30 and 11 to 11.30 a. m. and p. m. on 305 kc. (984 m.).

SMITH POINT LIGHTHOUSE, Va., lat. 37° 52' 47'' N., long. 76° 11' 02'' W. Transmits groups of 1 dash, 2 dots and 1 dash, thus—

- - . . . - - . . . - - . . . - - . . . 60 seconds	Silent 120 seconds
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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.).

WOLF TRAP LIGHT STATION, Va., lat. 37° 23' 25'' N., long. 76° 11' 23'' W. Transmits groups of 2 dashes and 2 dots, thus—

- - - . . - - - . . - - - . . - - - . . 60 seconds	Silent 120 seconds
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Transmits daily in clear weather 3 to 3.30 and 9 to 9.30 a. m. and p. m. on 305 kc. (984 m.).

CHESAPEAKE LIGHTSHIP, Va., lat. 36° 58' 42'' N., long. 75° 42' 12'' W. Transmits groups of 1 dot, 2 dashes, and 1 dot, thus—

. - - 60 seconds	Silent 120 seconds
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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° 55' 35'' N., long. 76° 00' 27'' W. Transmits groups of 1 dash, 1 dot, and 1 dash, thus—

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

DIAMOND SHOAL LIGHTSHIP, N. C., lat. 35° 05' 18'' N., long. 75° 19' 44'' W. Transmits groups of 2 dashes and 1 dot, thus—

- - . . . - - . . . 60 seconds	Silent 120 seconds
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Transmits daily in clear weather the third 15 minutes of each hour on 300 kc. (1,000 m.).

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

CAPE LOOKOUT SHOALS LIGHTSHIP, N. C., lat. 34° 18' 27'' N., long. 76° 24' 18'' W. Transmits daily in clear weather 5 to 5.30 and 11 to 11.30 a. m. and p. m. on 290 kc. (1,034 m.), groups of 1 dot, 1 dash, 1 dot, and 1 dash, thus—

.	Silent
60 seconds	120 seconds

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

FRYING PAN SHOALS LIGHTSHIP, N. C., lat. 33° 28' 00'' N., long. 77° 33' 45'' W. Transmits the second 15 minutes of each hour on 310 kc. (968 m.), groups of 2 dashes, thus—

- - - - -	Silent
60 seconds	120 seconds

ST. JOHNS RIVER LIGHTSHIP, Fla., lat. 30° 23' 30'' N., long. 81° 18' 00'' W. Transmits groups of 1 dash, 1 dot, 1 dash, thus—

-	Silent
60 seconds	120 seconds

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

JUPITER INLET LIGHT STATION, Fla., lat. 26° 56' 54'' N., long. 80° 04' 56'' W. Transmits groups of 1 dot and 3 dashes, thus—

. - - - -	Silent
60 seconds	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 m.).

GULF COAST

DRY TORTUGAS LIGHT STATION, Fla., lat. 24° 37' 59'' N., long. 82° 55' 13'' W. Transmits groups of 3 dashes, thus—

- - - - -	Silent
60 seconds	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° 11' 15'' N., long. 83° 03' 02'' W. Transmits groups of 1 dot, 1 dash, and 1 dot, thus—

. -	Silent
60 seconds	120 seconds

Transmits daily ninetieth meridian time from 2 to 2.30, 5 to 5.30, 8 to 8.30, and 11 to 11.30 a. m. and p. m. on 300 kc. (1,000 m.).

SOUTH PASS WEST JETTY RANGE FRONT LIGHT STATION, La., lat. 28° 59' 25'' N., long. 89° 08' 22'' W. Transmits groups of 2 dashes, thus—

- - - - -	Silent
60 seconds	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.).

SOUTHWEST PASS EAST JETTY LIGHTHOUSE, La., lat. 28° 54' 23'' N., long. 89° 25' 38'' W. Transmits groups of 4 dashes, thus—

- - - - -	Silent
60 seconds	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. on 295 kc. (1,016 m.), ninetieth meridian time.

SABINE PASS LIGHTHOUSE, La., lat. 29° 42' 59'' N., long. 93° 51' 01'' W. Transmits groups of 2 dashes and 1 dot, thus—

- - . - - -	Silent
60 seconds	120 seconds

Transmits daily in clear weather from 1.30 to 2, 4.30 to 5, 7.30 to 8, and 10.30 to 11 a. m. and p. m. on 305 kc. (984 m.).

GALVESTON JETTY LIGHT STATION, Tex. lat. $29^{\circ} 19' 40''$ N., long. $94^{\circ} 41' 31''$ W. Transmits groups of 1 dash, 2 dots, and 1 dash, thus—

. 60 seconds	Silent 120 seconds
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Transmits daily in clear weather from 12 to 12.30, 3 to 3.30, 6 to 6.30, and 9 to 9.30 a. m. and p. m. on 290 kc. (1,034 m.).

ARANSAS PASS LIGHTHOUSE, Tex., lat. $27^{\circ} 51' 50''$ N., long. $97^{\circ} 03' 23''$ W. Transmits groups of 1 dash, 1 dot, and 1 dash, thus—

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

GREAT LAKES

All United States radiobeacons on the Great Lakes transmit continuously during fog or thick weather and in addition during the last 15 minutes of every hour.

BUFFALO LIGHT STATION, N. Y., lat. $42^{\circ} 52' 40''$ N., long. $78^{\circ} 53' 56''$ W. Transmits groups of four dashes, thus—

- - - - - 60 seconds	Silent 120 seconds
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Transmits on a frequency of 294 kc. (1,020 m.).

ASHTABULA LIGHTHOUSE, Ohio, lat. $41^{\circ} 55' 05''$ N., long. $80^{\circ} 47' 15''$ W. Transmits groups of 2 dashes and 1 dot, thus—

. 60 seconds	Silent 120 seconds
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Transmits on 314 kc. (955 m.). Ninetieth meridian time.

DETROIT RIVER LIGHT STATION, Mich., lat. $42^{\circ} 00' 03''$ N., long. $83^{\circ} 08' 28''$ W. Transmits groups of 2 dashes, thus—

- - - - - 60 seconds	Silent 120 seconds
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Transmits on 306 kc. (980 m.). Ninetieth meridian time.

LAKE HURON LIGHTSHIP, Mich., lat. $43^{\circ} 02' 47''$ N., long. $82^{\circ} 24' 50''$ W. Transmits groups of 3 dashes, thus—

- - - - - 60 seconds	Silent 120 seconds
-------------------------	-----------------------

Transmits on 306 kc. (980 m.). Ninetieth meridian time.

THUNDER BAY ISLAND LIGHT STATION, Mich., lat. $45^{\circ} 02' 15''$ N., long. $83^{\circ} 11' 38''$ W. Transmits groups of 1 dash, 1 dot, and 1 dash, thus—

. 60 seconds	Silent 120 seconds
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Transmits on 286 kc. (1,049 m.). Ninetieth meridian time.

POE REEF LIGHT STATION, Mich., lat. $45^{\circ} 41' 41''$ N., long. $84^{\circ} 21' 43''$ W. Transmits groups of 1 dot, 2 dashes, thus—

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

Transmits on 294 kc. (1,020 m.). Ninetieth meridian time.

DETOUR LIGHT STATION, Mich., lat. $45^{\circ} 57' 22''$ N., long., $83^{\circ} 54' 55''$ W. Transmits groups of 4 dashes, thus—

- - - - - 60 seconds	Silent 120 seconds
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Transmits on 286 kc. (1,049 m.). Ninetieth meridian time.

First blast of the radiobeacon and first blast of diaphone are sounded simultaneously; navigators may determine their distances in nautical miles from the

lighthouse by dividing the number of seconds intervening between reception of the radio dash and the blast of the diaphone fog signal by 5.5.

WHITEFISH POINT LIGHT STATION, Mich., lat. 46° 46' 17'' N., long. 84° 57' 26'' W. Transmits 3 dashes and 1 dot, thus—

. - - - . - - - . - - - . 60 seconds	Silent 120 seconds
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Transmits on 286 kc. (1,049 m.).

Radiobeacon and diaphone fog signal synchronized for distance-finding purposes. When both signals are being operated for fog or thick weather, a long dash will be transmitted at some time during each minute of radiobeacon transmission, so timed that the end of this dash marks the beginning of each repetition of the diaphone characteristic, which recurs at minute intervals. Divide this interval in seconds by five and the result will be approximate distance of the ship from the lighthouse in statute miles.

MARQUETTE LIGHT STATION, Mich., lat. 46° 32' 48'' N., long. 87° 22' 34'' W. Transmits groups of 1 dot and 2 dashes, thus—

. - - - . - - - . - - - . 60 seconds	Silent 120 seconds
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Transmits on 302 kc. (993 m.). Ninetieth meridian time.

MANITOU LIGHT STATION, Mich., lat. 47° 25' 11'' N., long. 87° 35' 13'' W. Transmits groups of 2 dashes, thus—

- - - - - 60 seconds	Silent 120 seconds
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Transmits on 302 kc. (993 m.).

LA POINTE LIGHT STATION, Wis., lat. 46° 43' 44'' N., Long. 90° 47' 06'' W. Transmits groups of 4 dashes, thus—

- - - - - 60 seconds	Silent 120 seconds
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Transmits on 314 kc. (955 m.).

DEVILS ISLAND LIGHT STATION, Wis., lat. 47° 04' 47'' N., long. 90° 43' 41'' W. Transmits groups of 3 dashes, thus—

- - - - - 60 seconds	Silent 120 seconds
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Transmits on 286 kc. (1,049 m.).

DULUTH RANGE FRONT LIGHT STATION, Minn., lat. 46° 46' 49'' N., long. 92° 05' 16'' W. Transmits groups of 3 dashes and 1 dot, thus—

. - - - . - - - . - - - . 60 seconds	Silent 120 seconds
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Transmits on 314 kc. (955 m.).

EAGLE HARBOR LIGHT STATION, Mich., lat. 47° 27' 35'' N., long. 88° 09' 32'' W. Transmits groups of 1 dot and 3 dashes, thus—

. - - - . - - - . - - - . 60 seconds	Silent 120 seconds
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Transmits on 314 kc. (955 m.).

MICHIGAN ISLAND LIGHT STATION, Wis., lat. 46° 52' 17'' N., long. 90° 29' 48'' W. Transmits groups of 1 dot and 2 dashes, thus—

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

Transmits on 286 kc. (1,049 m.).

HURON ISLAND LIGHT STATION, Wis., lat. 46° 57' 48'' N., long. 87° 59' 55'' W. Transmits groups of 1 dash, 1 dot, and 1 dash, thus—

- . - - - . - - - . - - - . 60 seconds	Silent 120 seconds
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Transmits on 286 kc. (1,049 m.).

ROCK OF AGES LIGHT STATION, Mich., lat. 47° 52' 00'' N., long. 89° 18' 52'' W.
Transmits groups of 2 dashes and 2 dots, thus—

- - - . . - - - . . - - - . . 60 seconds	Silent 120 seconds
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Transmits on 286 kc. (1,049 m.).

PASSAGE ISLAND LIGHT STATION, Mich., lat. 48° 13' 28'' N., long. 88° 21' 55'' W.
Transmits groups of 1 dash, 2 dots, and 1 dash, thus—

- - . . - - . . - - . . - - 60 seconds	Silent 120 seconds
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Transmits on 302 kc. (993 m.).

POINT BETSIE LIGHT STATION, Mich., lat. 44° 41' 29'' N., long. 86° 15' 18'' W.
Transmits groups of 1 dot, 2 dashes, and 1 dot, thus—

. . - - - . . - - . . - - . . 60 seconds	Silent 120 seconds
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Transmits on 314 kc. (955 m.).

GRAYS REEF LIGHTSHIP, Mich., lat. 45° 46' 51'' N., long. 85° 10' 34'' W.
Transmits groups of 1 dash, 2 dots, and 1 dash, thus—

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

Transmits on 314 kc. (955 m.).

LUDINGTON NORTH BREAKWATER LIGHT STATION, Mich., lat. 43° 57' 15'' N.,
long. 86° 28' 15'' W. Transmits groups of 4 dashes, thus—

- - - - - 60 seconds	Silent 120 seconds
-------------------------	-----------------------

Transmits on 302 kc. (993 m.).

GRAND HAVEN PIERHEAD RANGE FRONT LIGHT STATION, Mich., lat. 43° 03'
27'' N., long. 86° 15' 23'' W. Transmits groups of 1 dot and 3 dashes, thus—

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

Transmits on 302 kc. (993 m.).

CALUMET HARBOR LIGHT STATION, Ill., lat. 41° 44' 16'' N., long. 87° 30' 32'' W.
Transmits groups of 1 dash, 1 dot, and 1 dash, thus—

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

Transmits on 286 kc. (1,049 m.).

CHICAGO HARBOR LIGHT STATION, Ill., lat. 41° 53' 31'' N., long. 87° 35' 26'' W.
Transmits groups of 1 dot, 1 dash, 1 dot, and 1 dash, thus—

. . - - - . . - - . . - - . . 60 seconds	Silent 120 seconds
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Transmits on 286 kc. (1,049 m.).

MILWAUKEE BREAKWATER LIGHT STATION, Wis., lat. 43° 01' 36'' N., long. 87°
52' 56'' W. Transmits groups of 2 dashes, thus—

- - - - - 60 seconds	Silent 120 seconds
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Transmits on 286 kc. (1,049 m.).

MANITOWOC BREAKWATER LIGHT STATION, Wis., lat. 44° 05' 34'' N., long. 87°
38' 29'' W. Transmits groups of 3 dashes, thus—

- - - - - 60 seconds	Silent 120 seconds
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Transmits on 302 kc. (993 m.).

KEWAUNEE PIERHEAD LIGHT STATION, Wis., lat. 44° 27' 30'' N., long. 87° 29' 40'' W. Transmits groups of 2 dashes and 1 dot, thus—

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

Transmits on 286 kc. (1,049 m.).

STURGEON BAY CANAL LIGHT STATION, Mich., lat. 44° 47' 42'' N., long. 87° 18' 47'' W. Transmits groups of 3 dashes and 1 dot, thus—

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

Transmits on 314 kc. (955 m.).

LANSING SHOAL LIGHTSHIP, Mich., lat. 45° 54' 18'' N., long. 85° 33' 50'' W. Transmits groups of 2 dashes and 2 dots, thus—

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

Transmits on 314 kc. (955 m.).

PACIFIC COAST

LOS ANGELES HARBOR LIGHT STATION, Calif., lat. 33° 42' 31'' N., long. 118° 15' 03'' W. Transmits groups of 1 dot and 2 dashes, thus—

. - - - . - - - . - - - . - - - 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° 34' 30'' N., long. 120° 38' 59'' W. Transmits groups of 3 dashes, thus—

- - - - - - - - - - 60 seconds	Silent 120 seconds
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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° 18' 24'' N., long. 121° 54' 03'' W. Transmits groups of 1 dot, 2 dashes, and 1 dot, thus—

. - - - . . - - - . . - - - . . 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 6 p. m. to 7 a. m. on 300 kc. (1,000 m.).

SAN FRANCISCO LIGHTSHIP, Calif., lat. 37° 45' 03'' N., long. 122° 41' 30'' W. Transmits groups of 2 dashes, thus—

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

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° 57' 19'' N., long. 123° 44' 24'' W. Transmits groups of 2 dashes and 1 dot, thus—

- - - . - - - . - - - . - - - . 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. $40^{\circ} 26' 04''$ N., long. $124^{\circ} 30' 14''$ W.
Transmits groups of 1 dot, 1 dash, and 1 dash, thus—

. 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. $42^{\circ} 50' 15''$ N., long. $124^{\circ} 33' 46''$ W.
Transmits groups of 3 dashes and 1 dot, thus—

- - - - . 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. $46^{\circ} 11' 01''$ N., long. $124^{\circ} 11' 04''$ W.
Transmits groups of 3 dashes, thus—

- - - - - 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. $46^{\circ} 53' 19''$ N., long. $124^{\circ} 06' 57''$ W. Transmits groups of 4 dashes, thus—

- - - - - 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 6.15 a. m. on 295 kc. (1,017 m.).

UMATILLA REEF LIGHTSHIP, Wash., lat. $48^{\circ} 10' 03''$ N., long. $124^{\circ} 50' 25''$ W.
Transmits groups of 1 dot, 1 dash, and 1 dot thus—

. 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 305 kc. (984 m.).

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. $48^{\circ} 31' 44''$ N., long. $125^{\circ} 00' 00''$ W.
Transmits groups of 2 dashes, thus—

- - - - - 60 seconds	Silent 120 seconds
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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. $58^{\circ} 32' 46''$ N., long. $134^{\circ} 54' 37''$
Transmits groups of 1 dash, 1 dot and 1 dash, thus—

- 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. $58^{\circ} 11' 48''$ N., long. $136^{\circ} 38' 24''$ W. Transmits single dashes, thus—

60 seconds	Silent 120 seconds
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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. $59^{\circ} 47' 48''$ N., long. $144^{\circ} 36' 18''$ W. Transmits groups of 4 dashes, thus—

60 seconds	Silent 120 seconds
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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. $21^{\circ} 18' 47''$ N., long. $157^{\circ} 39' 08''$ W. Transmits groups of 4 dashes, thus—

60 seconds	Silent 120 seconds
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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.). $157\frac{1}{2}$ th meridian time.

KILAUEA POINT LIGHT STATION, Hawaii, lat. $22^{\circ} 13' 56''$ N., long. $159^{\circ} 24' 16''$ W. Transmits groups of 2 dashes, thus—

60 seconds	Silent 120 seconds
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Transmits second 15 minutes every hour on 300 kc. (1,000 m.).

CAPE MALA LIGHT STATION, Canal Zone, lat. $7^{\circ} 27' 30''$ N., long. $79^{\circ} 59' 30''$ W. Transmits groups of 2 dashes continuously from 15 minutes past hour to 25 minutes past the hour and from 45 minutes past the hour to 55 minutes past the hour, every hour on 295 kc. (1,017 m.).

CRISTOBAL MOLE, Canal Zone, lat. $9^{\circ} 21' 23''$ N., long. $79^{\circ} 55' 03''$ W. Transmits single dashes continuously during first and fourth 10 minutes of every hour on 305 kc. (984 m.).

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' 39'' 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°-243°.
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' 00'' N.	30°-220°.
Cape Henlopen, Del. (Delaware Bay R/C group).	NSD	Receiver, 75° 05' 26'' W., 38° 47' 33'' N.; transmitter, 75° 05' 27'' W., 38° 47' 34'' N.	0°-360°.
Cape Hinchinbrook, Alaska.	NRM	Receiver and transmitter, 146° 39' 07'' W., 60° 14' 10'' N.	110°-320°.
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, Canal Zone. ¹	NGR	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). ¹	{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°-100°.
Delaware Bay entrance, Del. (See Cape Henlopen.)	NSD	-----	-----
Destruction Island, Wash.	NBG	Receiver and transmitter, 124° 29' 00'' W., 47° 40' 30'' N.	0°-360°.
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' 31'' W., 43° 23' 01'' N.; transmitter, 124° 18' 32'' W., 43° 22' 58'' N.	210°-05°.
Eureka, Calif. ¹ -----	NPW	Receiver and transmitter, 124° 16' 24'' W., 40° 41' 46'' N.	214°-17°.
Farallone Island, Calif. ¹ .	NPI	Receiver 122° 59' 50'' W., 37° 41' 58'' N.; transmitter, 123° 00' 00'' W., 37° 41' 52'' N.	0°-360°.
Fire Island, N. Y. ¹ (New York R/C group).	NJY	Receiver, 73° 12' 32'' W., 40° 38' 07'' N.; transmitter, 73° 13' 00'' W., 40° 37' 59'' N.	88°-260°.
Flly 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°.
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°.

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
Galveston, Tex. ¹	NKB	Receiver and transmitter, 94° 45' 13'' W., 29° 20' 01'' N.	30°-205°.
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.	356°-144°.
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' 14.33'' W., 40° 01' 58'' N.; transmitter, 74° 19' 14.33'' W., 40° 01' 58'' 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.	{24°-185°.
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' 33'' 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 Heuneme, Calif. ¹ ..	NCA	Receiver and transmitter, 119° 12' 12'' W., 34° 08' 44'' N.	106.5°-307.5°.
Point Montara, Calif. ¹ ..	NLH	Receiver, 122° 31' 07'' W., 37° 32' 02'' N.; transmitter, 122° 31' 05'' W., 37° 32' 01'' N.	178°-355°. Unreliable in the sector 292°-295° for vessels northwest and within 15 miles of Farallone 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).	{NDX NCZ}	{Receiver and transmitter (NDX), 75° 47' 48'' W., 36° 17' 16'' N.; transmitter (NCZ), 75° 58' 37'' W., 36° 51' 09'' N.	{0°-150°.
Prices Neck, R. I. 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°.
Soapstone Point, Alaska. ¹	NUW	Receiver, 136° 29' 50'' W., 58° 05' 40'' N.; transmitter, 136° 29' 44'' W., 58° 05' 39'' N.	245°-45°.
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°.

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
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 100°-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' 29'' W., 42° 21' 16'' N.	320°-240°.
Toro Point, Canal Zone.	NQB	Receiver, 79° 56' 58'' W., 09° 22' 31'' N.; transmitter, 79° 46' 24'' W., 09° 07' 12'' N.	270°-60°.
Virginia Beach, Va. (Chesapeake Bay R/C group). 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.

**COMMERCIAL AND GOVERNMENT LAND, SHIP, AIRCRAFT,
RADIOBEACON, AND RADIO-COMPASS STATIONS, AL-
PHABETICALLY BY CALL SIGNALS**

Call	Station	Call	Station
KAA	Manila, P. I. ....fe	KDAD	Gulfgem .....b
KAB	Basco, P. I. ....fe	KDAE	Carrillo .....b
KAC	Catbalogan, P. I. (Samar).....fe	KDAF	Coppename .....b
KAD	Dapitan, P. I. (Zamboanga).....fe	KDAG	Parismina .....b
KAF	Tilik, P. I. ....fe	KDAH	Heredia .....b
KAG	Tandag, P. I., radio (Surigao).....fe	KDAI	Abangarez .....b
KAH	Hinatuan, P. I., radio (Surigao).....fe	KDAJ	San Jose .....b
KAI	Infanta, P. I., radio (Tayabas).....fe	KDAK	Atenas .....b
KAJ	Larena, P. I. ....fe	KDAM	West Notus .....b
KAK	Coron, P. I. ....fe	KDAN	West Kebar .....b
KAL	Legaspi, P. I., radio .....fe	KDAO	Esparta .....b
KAM	Passay, P. I. ....fx	KDAP	West Kedron .....b
KAN	Calapan, P. I., radio (Mindoro).....fe	KDAQ	Sivaola .....b
KAR	Caramann, P. I., radio (Camarines Sur).....fe	KDAR	President Monroe .....b
KAS	Surigao, P. I., radio (Surigao).....fe	KDAS	Siskiyou .....b
KAT	Catanauan, P. I., radio (Tayabas).....fe	KDAT	Pomona .....b
KAU	Abulug, P. I., radio (Cagayan).....fe	KDAU	Turrialba .....b
KAV	Virac, P. I., radio (Albay).....fe	KDAV	E. J. Nicklos .....b
KAW	Aparri, P. I., radio (Cagayan).....fe	KDAX	Calamares .....b
KAX	Manila, P. I. ....fx	KDAY	Antinous .....b
KAY	do .....fx	KDAZ	Metapan .....b
KAZ	do .....fx	KDBA	Oakmar .....b
KBA	Alabat, P. I., radio (Tayabas).....fe	KDBB	Depere .....b
KBB	Banganga, P. I. ....fe	KDBC	Topa Topa .....b
KBC	Bacuit, P. I. ....fe	KDBD	Altair .....b
KBD	Dapa, P. I., radio (Surigao).....fe	KDBE	Pastores .....b
KBI	Manila, P. I. ....fx	KDBF	San Mateo .....b
KBJ	do .....fx	KDBG	Forest King .....b
KBK	do .....fx	KDBH	Santa Marta .....b
KBL	Balanga, P. I., radio (Samar).....fe	KDBI	Steel Worker .....b
KBN	Borongon, P. I., radio (Samar).....fe	KDBJ	Saramacca .....b
KBO	Manila, P. I. ....fx	KDBK	West Camargo .....b
KBP	Pandan, P. I., radio (Catanduanes Islands).....fe	KDBL	Meton .....b
KBR	Baler, P. I., radio (Tayabas).....fe	KDBM	Cananova .....b
KBS	Sogod, P. I., radio (Leyte).....fe	KDBN	Suriname .....b
KBT	Butan, P. I. ....fx	KDBO	Sutorpco .....b
KBU	Cajidiocan, P. I. ....fe	KDBP	Sunewco .....b
KBZ	Zumarrago, P. I. ....fe	KDBQ	Surailco .....b
KCA	Cape Sutchef Light Station, Alaska.....fe	KDBR	Durango .....b
KCAAB	Tulsa, Okla. ....fa,fx	KDBS	Santa Isabel .....b
KCB	Cape Decision, Alaska.....fx	KDBT	Sawokla .....b
KCC	Scotch Cap Light Station, Alaska.....fe,fx	KDBU	Calnar .....b
KCD	Cape Spencer Light Station, Alaska.....fe	KDBV	Charles R. McCormick .....b
KCE	Cape St. Elias Light Station, Alaska.....fe	KDBW	Guam, Guam .....fe,fx
KCF	Five Finger Island Light Station, Alaska.....fe	KDBX	Hybert .....b
KCG	Mary Island Light Station, Alaska.....fe	KDBY	Washington .....b
KCH	St. George Reef Light Station, Calif.....fx	KDBZ	Tivives .....b
KCI	Crescent City Light Station, Calif.....fx	KDC	Mobile City .....b
KCJ	Swiftsure Bank Lightship, Wash. ....fe	KDCA	Condor .....b
KCK	Umatilla Reef Lightship, Wash. ....fe	KDCB	Independence Hall .....b
KCL	Columbia River Lightship, Oreg. ....fe	KDCD	Zacapa .....b
KCM	Relief Lightship No. 92 .....fe	KDCE	La Perla .....b
KCN	Blunts Reef Lightship, Calif. ....fe	KDCF	George Washington .....b
KCO	San Francisco Lightship, Calif. ....fe	KDCG	President Cleveland .....b
KCP	Relief Lightship No. 76 .....fe	KDCI	Nosa Queen .....b
KCQ	Makapuu Point Light Station, Hawaii (Oahu Island).....fe	KDCJ	Point San Pedro .....b
KCR	St. Louis, Mo. ....fa,fx	KDCK	Halo .....b
KCS	Boise, Idaho. ....fa,fx	KDCL	Mosella .....b
KCT	Pasco, Wash. ....fa,fx	KDCM	Hollywood .....b
KCU	Glendale, Calif. (Los Angeles).....fx	KDCN	Mevania .....b
KCV	Fresno, Calif. ....fx	KDCO	Pacific Spruce .....b
KCW	Onklau, Calif. ....fx	KDCP	Jalapa .....b
KCX	Kilauea Point Light Station, Hawaii.....fe	KDCQ	Steel Engineer .....b
KCY	Medford, Oreg. ....fx	KDCR	Nellie Juan, Alaska .....fe,fx
KCZ	Portland, Oreg. ....fx	KDCS	Nelson Traveler .....b
KDA	Seattle, Wash. ....fx	KDCU	I. C. White .....b
KDA A	Maywood, Ill. ....fx	KDCV	Algic .....b
KDA B	Cartago .....b	KDCW	Lorraine Cross .....b
	Limon .....b	KDCX	Yaka .....b
		KDD	Sumanco .....b
		KDDA	Sutermco .....b
		KDDB	Carlton .....b
		KDDE	Hastings .....b
		KDDF	
		KDDH	
		KDDI	
		KDDK	
		KDDL	

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

Call	Station	Call	Station		
KDDM	Executive.....	b	KDIV	Olympic.....	b
KDDN	Steel Exporter.....	b	KDIW	Sandmaster.....	b
KDDP	Surico.....	b	KDIY	Texada.....	b
KDDQ	Manini.....	b	KDJ	Daly, Alaska.....	fx
KDDR	Halsey.....	b	KDJF	Vittorio Emmanuele III.....	b
KDDS	Walter Miller.....	b	KDJG	Pacific Redwood.....	b
KDDT	Derblay.....	b	KDJH	Jane Christenson.....	b
KDDV	Culberson.....	b	KDJI	Chetopa.....	b
KDDY	Santa Eulalia.....	b	KDJK	Yalza.....	b
KDDZ	Cassimir.....	b	KDJL	Steel Inventor.....	b
KDEB	Gulfstar.....	b	KDJO	Oncida.....	b
KDEC	Syros.....	b	KDJR	Onoudaga.....	b
KDED	Lena Luckenbach.....	b	KDJS	Chippewa.....	b
KDEQ	Charles Nelson.....	b	KDJV	Joseph Seep.....	b
KDER	Carrabulo.....	b	KDJY	Natchez.....	b
KDES	Carplaka.....	b	KDJZ	Montgomery City.....	b
KDEV	Gertrude Kellogg.....	b	KDKB	Eastern Sword.....	b
KDEW	Paco.....	b	KDKG	William H. Doheny.....	b
KDEX	Cody.....	b	KDKH	Algonquin.....	b
KDEY	Sudurco.....	b	KDKI	Tachira.....	b
KDEZ	Eastern Temple.....	b	KDKK	Minnekahta.....	b
KDF	Hyder, Alaska.....	fsc	KDKL	Camden.....	b
KDFB	New Orleans.....	b	KDKM	Natirar.....	b
KDFC	Potter.....	b	KDKP	York.....	b
KDFD	Gateway City.....	b	KDKR	Warbler.....	b
KDFE	Castana.....	b	KDKS	Willet.....	b
KDFG	Catahoula.....	b	KDKX	W. J. Hanna.....	b
KDFH	Tomalva.....	b	KDKY	Peacock.....	b
KDFI	Sulanierco.....	b	KDLA	Charlie Watson.....	b
KDFJ	Sudawsonco.....	b	KDLB	President Hayes.....	b
KDFK	Admiral Nulton.....	b	KDLC	W. D. Anderson.....	b
KDFM	Manatawny.....	b	KDLD	Suwarinco.....	b
KDFQ	Gulfstate.....	b	KDLE	Admiral Halstead.....	b
KDFR	Jefferson Myers.....	b	KDLF	Sujameco.....	b
KDFS	Janelew.....	b	KDLG	Penaper.....	b
KDFT	General M. H. Sherman.....	b	KDLH	Franklin K. Lane.....	b
KDFU	Denall.....	b	KDLJ	Artemis.....	b
KDFV	Lavada.....	b	KDLK	A. L. Kent.....	b
KDFW	Golden State.....	b	KDLM	Wacosta.....	b
KDFX	West Honaker.....	b	KDLN	Henry S. Grovo.....	b
KDG	Honolulu, Hawaii.....	fx	KDLO	Tuscaloosa City.....	b
KDGK	Bayou Chico.....	b	KDLS	Sugillenco.....	b
KDGL	Steel Ranger.....	b	KDLT	George Peirce.....	b
KDGO	Donna Lane.....	b	KDLU	Princeton.....	b
KDGG	Cities Service Missouri.....	b	KDLW	Herman Frasch.....	b
KDGS	Elisha Walker.....	b	KDLX	Mary Luckenbach.....	b
KDGV	City of Rayville.....	b	KDMA	Eugene W. R. Thayer.....	b
KDGW	William Penn.....	b	KDMB	Cities Service Petrol.....	b
KDGY	China Arrow.....	b	KDMC	Denconstar.....	b
KDGZ	Kekoskee.....	b	KDMD	Agwiworld.....	b
KDH	Nora.....	b	KDMG	Estrada Palma.....	b
KDHA	Third Radio Zone No. 41 (portable).....	fx	KDMH	Memnon.....	b
KDHB	Admiral Wiley.....	b	KDML	S. C. T. Dodd.....	b
KDHC	Harvester.....	b	KDMN	John Worthington.....	b
KDHF	President Van Buren.....	b	KDMO	ZR-3.....	b
KDHH	Charles H. Cramp.....	b	KDMP	W. H. Libby.....	b
KDHL	Intrepid.....	b	KDMQ	President Harrison.....	b
KDHI	Bibbeo.....	b	KDMR	W. S. Miller.....	b
KDHK	Yapalaga.....	b	KDMS	Samuel L. Fuller.....	b
KDHL	Argosy.....	b	KDMT	Joseph M. Cudaly.....	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	KDN	Rock Springs, Wyo.....	fx
KDHS	Wm. Boyce Thompson.....	b	KDNE	Exarch.....	b
KDHT	Santa Veronica.....	b	KDNG	Swiftsure.....	b
KDHU	Chilseo.....	b	KDNI	Makawao.....	b
KDHY	Malang.....	b	KDNI	Sunowarko.....	b
KDI	Santa Flavis (moored vessel in Nushagak River, Alaska).....	fb, fx	KDNK	M. F. Elliott.....	b
KDID	Oduna.....	b	KDNN	Cities Service Denver.....	b
KDIF	Hanley.....	b	KDNO	Gulfling.....	b
KDIG	Narbo.....	b	KDNP	City of Dalhart.....	b
KDII	Narcissus.....	b	KDNR	Lake Miraflores.....	b
KDIJ	Shelton.....	b	KDNS	Yorba Linda.....	b
KDIK	West Cussetta.....	b	KDNV	President Pierce.....	b
KDIN	Oakwood.....	b	KDNX	Sunugenco.....	b
KDIP	Ruth Kellogg.....	b	KDNY	Favorite.....	b
KDIQ	Doris Kellogg.....	b	KDNZ	Gorgona.....	b
KDIS	Cascade.....	b	KDOB	Aja.....	b
KDIT	C. D. Johnson III.....	b	KDOD	Livingston Roe.....	b
			KDOF	Bessemer City.....	b

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

Call	Station	Call	Station
KDOH	Crampton Anderson.....b	KDTC	President Garfield.....b
KDOJ	Sea Lion.....b	KDTD	David McKelvy.....b
KDOK	Albert E. Watts.....b	KDTE	Paul Shoup.....b
KDOL	F. C. Latrobe.....b	KDTE	Betty R.....b
KDOM	Annapolis.....b	KDTG	Yankee Arrow.....b
KDOU	Richmond.....b	KDTI	Conseco.....b
KDOR	Thomas H. Wheeler.....b	KDTJ	Emidio.....b
KDOS	Swift Arrow.....b	KDTM	American Legion.....b
KDOT	President Jefferson.....b	KDTN	Lebec.....b
KDOV	America.....b	KDTP	Thomas P. Beal.....b
KDOZ	President Polk.....b	KDTP	J. N. Pew.....b
KDP	Chomly, Alaska.....fc, fx	KDTR	Memphis City.....b
KDPA	President Jackson.....b	KDTR	Adler.....b
KDPC	Suspenro.....b	KDTU	J. A. Moffett, jr.....b
KDPE	Gargoyle.....b	KDTV	Greylock.....b
KDPG	Liebre.....b	KDTV	Tustem.....b
KDPK	Franklin.....b	KDTW	Southern Cross.....b
KDPL	Walter Jennings.....b	KDTZ	Point Reyes, Calif. (Bollnas).....fx
KDPN	Arden.....b	KDUB	Harry Yates.....b
KDPO	Beacon.....b	KDUC	Lubrico.....b
KDPQ	Cities Service Ohio.....b	KDUD	Knoxville City.....b
KDPR	Montebello.....b	KDUG	Empire Arrow.....b
KDPX	La Placencia.....b	KDUH	Louis R. Davidson.....b
KDPY	Fairfield City.....b	KDUJ	William T. Roberts.....b
KDQB	Ward.....b	KDUK	Golden Sun.....b
KDQD	E. R. Kemp.....b	KDUL	Theodore H. Wiekwire, jr.....b
KDQE	Galveston.....b	KDUM	John D. Archbold.....b
KDQF	Jeff Davis.....b	KDUP	Guinevere.....b
KDQG	Oldham.....b	KDUQ	Gulfwax.....b
KDQH	Meanticut.....b	KDUR	T. J. Williams.....b
KDQI	Kentucky.....b	KDUT	President Grant.....b
KDQJ	Solana.....b	KDUV	Margaret Dollar.....b
KDQL	Sucubaco.....b	KDUW	Chattanooga City.....b
KDQM	Aladdin.....b	KDUX	Thomas Britt.....b
KDQR	John C. Kirkpatrick.....b	KDUY	President Lincoln.....b
KDQS	Cerro-Ebano.....b	KDUZ	O. S. McFarland.....b
KDQT	Matnawill.....b	KDV	Third Radio Zone No. 40 (portable).....fx
KDQV	Swift Scout.....b	KDVD	Levant Arrow.....b
KDQW	Cairo.....b	KDVE	Robert E. Hopkins.....b
KDQX	St. Louis.....b	KDVF	Adam E. Cornelius.....b
KDQY	Cerro-Azul.....b	KDVH	Golden Dragon.....b
KDQZ	Frank G. Drum.....b	KDVI	Wm. Rockefeller.....b
KDR	Ruby (permanently moored vessel).....fx	KDVJ	La Purisima.....b
KDRB	Gulfprince.....b	KDVK	F. H. Hillman.....b
KDRC	California.....b	KDVL	Birkenhead.....b
KDRD	R. J. Hanna.....b	KDVM	H. T. Harper.....b
KDRE	K. R. Kingsbury.....b	KDVN	Steel Seafarer.....b
KDRJ	Selma City.....b	KDVO	Samuel Q. Brown.....b
KDRK	Swiftagle.....b	KDVR	President Madison.....b
KDRL	President Adams.....b	KDVS	G. N. Wilson.....b
KDRM	Henry D. Whiton.....b	KDVT	Dixie Arrow.....b
KDRN	E. W. Sinclair.....b	KDVV	H. M. Storey.....b
KDRP	Suphenco.....b	KDWW	Steel Scientist.....b
KDRQ	Manulani.....b	KDVX	Baton Rouge.....b
KDRR	Delphine.....b	KDYY	Memphis.....b
KDRS	Cuba.....b	KDWA	Clifford F. Moll.....b
KDRV	Matnalei.....b	KDWB	John J. Boland.....b
KDRW	President Taft.....b	KDWD	New Jersey.....b
KDRX	Gulfpenn.....b	KDWF	All America.....b
KDRZ	Tuisagas.....b	KDWH	Munnargo.....b
KDSA	Swiftlight.....b	KDWI	Equator.....b
KDSB	E. T. Bedford.....b	KDWK	President Harding.....b
KDSC	Vicksburg.....b	KDWL	Steel Navigator.....b
KDSD	Jane Nettleton.....b	KDWN	Byron D. Benson.....b
KDSE	Manukai.....b	KDWP	W. S. Rheem.....b
KDSG	Anniston City.....b	KDWQ	Delaware Sun.....b
KDSE	Mojave.....b	KDWS	President Roosevelt.....b
KDSL	Swiftwind.....b	KDWU	Fortuna.....b
KDSM	President McKinley.....b	KDWV	Bethore.....b
KDSN	Nashaba.....b	KDWX	Diana Dollar.....b
KDSP	Lio.....b	KDWY	Federal.....b
KDSQ	Dixiano.....b	KDWZ	Pan America.....b
KDSR	Sea Ranger.....b	KDX	Third Radio Zone No. 30 (portable).....fx
KDSS	William F. Humphrey.....b	KDXD	Stuart Dollar.....b
KDSV	W. W. Mills.....b	KDXG	Daniel Kern.....b
KDSW	President Wilson.....b	KDXI	Melville Dollar.....b
KDSX	Atlantic City.....b	KDXJ	G. A. Tomlinson.....b
KDSY	Golden Hind.....b	KDXX	F. R. Hazard.....b
KDSZ	Sea Scout.....b	KDXL	John S. Manuel.....b
KDTB	Illinois.....b	KDXM	Frank Billings.....b
	Bohemian Club.....b	KDXN	A. D. Macbeth.....b

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

Call	Station	Call	Station		
KDXP	Amazon.....	b	KENV	Ballcamp.....	b
KDXQ	A. A. Augustus.....	b	KENX	Bafshe.....	b
KDXR	Price McKinney.....	b	KEO	Bongao, P. I., radio (Sulu).....	fc
KDXS	W. D. Calverley, jr.....	b	KEPD	Golden River.....	b
KDXT	John Stanton.....	b	KEPF	Mercer.....	b
KDXU	Joseph G. Butler, jr.....	b	KEPM	Commercial Bostonian.....	b
KDXV	J. J. Sullivan.....	b	KEPR	Sahale.....	b
KDXW	James P. Walsh.....	b	KEPT	Saco.....	b
KDXY	Martin Mullen.....	b	KEPV	Wallingford.....	b
KDXZ	William A. Paine.....	b	KEQ	Kahuku, Hawaii.....	fx
KDYY	Western World.....	b	KER	Bolinas, Calif.....	fx
KDYZ	General call for all vessels controlled by Cleveland Cliffs S. S. Co.....	b	KERG	Shooters Island.....	b
KDZC	Ramona.....	b	KERJ	Diamond Head.....	b
KDZN	Theodore H. Wickwire.....	b	KERM	Mayan.....	b
KDZO	Calcite.....	b	KERT	Malacca.....	b
KDZV	Marora.....	b	KERX	Aurora.....	b
KDZZ	Pacific.....	b	KERZ	Cities Service Kansas.....	b
KEB	General call for all vessels of the Inter- city Radio Telegraph Co.....	b	KES	Bolinas, Calif.....	fx
KEBD	Bolinas, Calif.....	fx	KESC	Sacanlaga.....	b
KEBF	Abron.....	b	KEND	Hamlin F. McCormick.....	b
KEBM	Edgofield.....	b	KESG	Sapinero.....	b
KEBQ	Lake Giltedge.....	b	KESQ	Bidwell.....	b
KEBZ	Golden Cross.....	b	KESR	Cities Service Oklahoma.....	b
KECB	Exporter.....	b	KESV	Pueblo.....	b
KECR	Edenton.....	b	KESX	Warwick.....	b
KECS	West Tacook.....	b	KET	Bolinas, Calif.....	fx
KECX	Duquesne.....	b	KETG	Braddock.....	b
KED	West Imboden.....	b	KETN	Edgehill.....	b
KEDN	Siasi, P. I., radio (Sulu).....	fc	KETP	Edgemont.....	b
KEDQ	Baraoa.....	b	KETZ	Arthur J. Baldwin.....	b
KEDR	West Maximus.....	b	KEU	Los Angeles, Calif.....	fa, fx
KEDT	San Fclipe.....	b	KEV	Cagayan de Sulu, P. I., radio (Sulu).....	fc
KEDV	West Quechee.....	b	KEVD	West Corum.....	b
KEDX	West Nosska.....	b	KEVF	Edgemoor.....	b
KEE	West Hardaway.....	b	KEVG	Eldena.....	b
KEFB	Bolinas, Calif.....	fx	KEVM	Nishmaha.....	b
KEFC	Sac City.....	b	KEVS	Isobel Weems.....	b
KEFR	Exford.....	b	KEVT	Schodack.....	b
KEFT	Ossining.....	b	KEVV	Schoharie.....	b
KEFX	Explorer.....	b	KEW	Balabac, P. I., radio (Palawan).....	fc
KEFZ	West Harshaw.....	b	KEXB	McKeesport.....	b
KEGC	Texas.....	b	KEXG	West Nohno.....	b
KEGF	William H. Machen.....	b	KEXJ	Golden Forest.....	b
KEGM	Eclipse.....	b	KEXK	West Totant.....	b
KEGP	Dirigo.....	b	KEXL	Lake Folcroft.....	b
KEGS	Lake Frugality.....	b	KEXM	Wisconsin.....	b
KEH	Michigan.....	b	KEXN	Lara.....	b
KEI	Panhandle City, Tex.....	fx	KEXQ	J. L. Luckenbach.....	b
KEJ	Bolinas, Calif.....	fx	KEXT	Peter H. Crowell.....	b
KEJD	do.....	fx	KEXV	Beaconhill.....	b
KEJE	Easterling.....	b	KEXX	Golden Bear.....	b
KEJF	Forbes Hauptman.....	b	KENZ	Glymont.....	b
KEJS	West Amargosa.....	b	KEY	Dundas, Alaska.....	fc, fx
KEJX	Transportation.....	b	KEZ	Bolinas, Calif.....	fx
KEK	Hillsboro, Oreg., radio (Portland).....	fc	KEZM	West Harcurvar.....	b
KEKC	Norma.....	b	KEZN	Pacific Oak.....	b
KEKD	West Cobalt.....	b	KEZP	West Hematite.....	b
KEKL	Saguache.....	b	KEZR	West Celina.....	b
KEKN	Guayaquil.....	b	KFA	Annette Island, Alaska, radio.....	fc, fx
KEKQ	Arlyn.....	b	KFAG	Bayonne.....	b
KEL	Bolinas, Calif.....	fx	KFAL	Dolly C.....	b
KELD	Albatross.....	b	KFAO	Eureka.....	b
KELK	Golden Kauri.....	b	KFB	Ilood Bay, Alaska.....	fc, fx
KELM	Munami.....	b	KFBQ	Arn.....	b
KELQ	Prusa.....	b	KFBX	Stephen M. Clement.....	b
KEM	Bolinas, Calif.....	fx	KFC	Karheen, Alaska.....	fc, fx
KEMJ	Panay.....	b	KFCG	Steelore.....	b
KEMK	Hoxie.....	b	KFCI	Steel Traveler.....	b
KEML	Jacox.....	b	KFCJ	J. F. Schoellkopf, jr.....	b
KEMN	Muncove.....	b	KFCN	James MacNaughton.....	b
KEMP	Covena.....	b	KFCS	Walucia III.....	b
KEMT	Tavernilla.....	b	KFCT	George F. Rand.....	b
KEMZ	Ballenas.....	b	KFCW	Sea Gull.....	b
KEN	Bolinas, Calif.....	fx	KFCX	Fisher.....	b
KEND	Triumph.....	b	KFD	Tenakee, Alaska.....	fx
KENK	West Modus.....	b	KFDG	Petrel.....	b
KENM	Mahukona.....	b	KFDI	Goliath.....	b
KENQ	Sulphite.....	b	KFDT	Calawail.....	b
KENR	Itopma.....	b	KFDW	Gulfbreeze.....	b
KENS	Chilbar.....	b	KFE	Ponea City, Okla.....	fx
			KFEF	Quincy.....	b
			KFEG	Frank H. Goodyear.....	b

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

Call	Station	Call	Station
KFEI	John A. Kling..... b	KFNU	J. E. Savage..... b
KFES	City of Holland..... b	KFNW	Stedvender..... b
KFEU	City of Saugatuck..... b	KFO	Oakland, Calif. (Oakland Airport)..... fa, fx
KFEU	Haleakala..... b	KFOE	Star of England..... b
KFEW	North King..... b	KFOK	Star of Alaska..... b
KFF	Texas and Louisiana No. 13 (portable)..... fx	KFOM	Sea Salvor..... b
KFFC	Pennsylvania Sun..... b	KFOW	William K. Field..... b
KFFG	Elmore..... b	KFP	Todd, Alaska..... fx
KFFN	Chilkat..... b	KFPA	Fire Boat No. 31..... b
KFG	Texas and Louisiana No. 14 (portable)..... fx	KFPC	Fire Boat No. 44..... b
KFGA	Alleghany..... b	KFPD	Fire Boat No. 47..... b
KFGI	Good Will..... b	KFPI	Capt. John W. McKie..... b
KFGS	Whitney Olsen..... b	KFPK	Lt. Col. Robert G. Gildart..... b
KFGT	Waimea..... b	KFR	Cedar Falls, Wash..... fx
KFGU	George L. Olson..... b	KFS	Palo Alto, Calif. radio (near)..... fe
KFHG	Dickenson..... b	KFSA	Alex B. Uhrig..... b
KFHN	Roosevelt..... b	KFSE	Edward L. Shea..... b
KFHW	Poinsettia..... b	KFSI	Utowana..... b
KFIG	Berkshire..... b	KFSM	John G. Munson..... b
KFIH	Francis F. Powell..... b	KFSO	G. J. Grammer..... b
KFILM	Henry W. Card..... b	KFSQ	Beatrice..... b
KFIN	Alaska..... b	KFSR	Azulea..... b
KFIR	Tillicum..... b	KFSV	Tusitula..... b
KFIS	Empire..... b	KFSS	Standard Service..... b
KFIT	City of Grand Rapids..... b	KFST	Michael Gallagher..... b
KFIT	City of St. Joseph..... b	KFSW	W. H. Becker..... b
KFIW	Chilore..... b	KFSX	Warrior..... b
KFJ	Saginaw Bay, Alaska..... fe, fx	KFT	Everett, Wash., radio..... fe, fx
KFJG	Wanderer..... b	KFTB	Morris S. Tremaine..... b
KFJT	W. G. Pollock..... b	KFTC	Benson Ford..... b
KFKF	Shasta..... b	KFTD	Henry Ford II..... b
KFKG	Lassen..... b	KFTI	Santa Maria..... b
KFKI	Silverado..... b	KFTJ	Alaska Standard..... b
KFKJ	Fred G. Hartwell..... b	KFTK	Mundolphin..... b
KFKK	Comber..... b	KFTN	Henry P. Werner..... b
KFKL	Emory L. Ford..... b	KFTO	George H. Ingalls..... b
KFKM	Ocean..... b	KFTP	Catalina..... b
KFKN	Ripple..... b	KFTR	Glacier..... b
KFKO	Spray..... b	KFTS	Frank Seither..... b
KFPP	Cities Service Boston..... b	KFTT	John A. Donaldson..... b
KFKR	Catherine G. Sudden..... b	KFTW	Fontana..... b
KFKS	Tide..... b	KFTY	Edward J. Berwind..... b
KFKT	White Cap..... b	KFUA	William Nelson..... b
KFKW	Spray III..... b	KFUB	E. G. Mathiott..... b
KFL	Underwood, Wash. (near)..... fx	KFUE	Foam..... b
KFLI	Ripple..... b	KFUG	Thalassa..... b
KFLJ	Frontenac..... b	KFUH	Kaimiloa..... b
KFLK	B. H. Taylor..... b	KFVM	Idalia..... b
KFLI	Ishpeming..... b	KFVT	Elnoise..... b
KFLN	Michigan..... b	KFVV	General call for all vessels of Alaska Packers Association..... b
KFLO	Peter White..... b	KFWE	Sea..... b
KFLT	Iowa..... b	KFWG	John Cudahy..... b
KFM	Sacramento, Calif. (Mather Field)..... fa, fx	KFWX	General call for all vessels of Isthmian S. S. Co. (U. S. Steel Products Co.)..... b
KFMC	Illinois..... b	KFX	Susan A. Moran..... b
KFMD	Gulfport..... b	KFXA	Zachar Bay, Alaska..... fe
KFME	Birmingham..... b	KFXB	Chickamauga..... b
KFMF	Cordova..... b	KFXG	John A. Topping..... b
KFMG	Demopolis..... b	KFXI	Wynoka..... b
KFMH	Montgomery..... b	KFXK	Charles C. West..... b
KFMI	Tuscaloosa..... b	KFXP	Tyce..... b
KFMJ	Mobile..... b	KFXQ	J. A. Campbell..... b
KFMK	Pioneer..... b	KFXT	Shadow K..... b
KFML	Pontiac..... b	KFXU	Billow..... b
KFMM	Douglas..... b	KFXX	General call for all vessels of Gulf Refining Co..... b
KFMN	John W. Boardman..... b	KFXZ	Breaker..... b
KFMP	Lebore..... b	KFY	Texas and Louisiana No. 15 (portable)..... fx
KFN	Cape Chacon, Alaska..... fe, fx	KFYA	Wave..... b
KFNA	Grand Island..... b	KFYB	Norco..... b
KFNB	Richard Holyoke..... b	KFYE	Thomas Tracy..... b
KFNE	Elia..... b	KFYG	Michabo..... b
KFNM	Angeline..... b	KFYU	Mohawk..... b
KFNN	Cadillac..... b	KFYX	Seaborn..... b
KFNO	Steelmotor..... b	KFY Y	General call for all vessels of Bay State Fishing Co..... b
KFNP	Marquette..... b	KFZ	George Inlet, Alaska..... fe, fx
KFNQ	Munising..... b	KFZD	Arminda..... b
KFNR	Negaunee..... b		
KFNS	Presque Isle..... b		
KFNT	Pam Schneider..... b		

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

Call	Station	Call	Station
KFZE	Hardi Biauou.....b	KGH	Hillsboro, Oreg.....fx
KFZF	Torrent.....b	KGI	Kahuku, Hawaii (Oahu station).....fx
KFZI	Toritani.....b	KGIN	Chatham, Alaska.....fc, fx
KFZJ	Ormes.....b	KGIP	Hydaburg, Alaska.....fx
KFZL	Arcadia.....b	KGIS	Excursion Inlet, Alaska.....fc, fx
KFZO	Caroline.....b	KGIT	Prince of Wales Island, Alaska.....fx
KFZQ	Seaforth.....b	KGJ	Santa Cruz Island, Calif.....fx
KFZS	Josephine.....b	KGJA	San Diego, Calif.....fx
KFZT	Mizpah.....b	KGJB	Indio, Calif.....fx
KFZU	Mary Pinchot.....b	KGJC	Lodi, Calif.....fx
KFZV	Hussar.....b	KGJD	Santa Rosa, Calif.....fx
KFZW	Steel Chemist.....b	KGJE	Santa Maria, Calif.....fx
KFZX	Steel Electrician.....b	KGJG	Modesto, Calif.....fx
KFZY	General call for all vessels of Pioneer S. S. Co.....b	KGJH	Marysville, Calif.....fx
KGAA	Aras.....b	KGJI	Fresno, Calif.....fx
KGAB	E. M. Clark.....b	KGJK	Jeanette E.....b
KGAC	E. J. Sadler.....b	KGJL	Third radio zone No. 47 (portable).....fx
KGAE	Henry G. Dalton.....b	KGJM	Third radio zone No. 46 (portable).....fx
KGAF	Sultana.....b	KGJN	Third radio zone No. 45 (portable).....fx
KGAN	Chatham.....b	KGJO	Third radio zone No. 44 (portable).....fx
KGAP	Sonora.....b	KGJP	Third radio zone No. 43 (portable).....fx
KGAS	Lagonda.....b	KGJQ	Third radio zone No. 42 (portable).....fx
KGAT	Marj III.....b	KGJW	Brownsville, Tex.....fa, fx
KGAU	John R. Williams.....b	KGJX	Pasadena, Calif.....fx
KGAV	Volador.....b	KGJZ	Texas, Louisiana, and Oklahoma (portable).....fx
KGAW	Hallgonian.....b	KGKD	Santa Maria, Calif.....fa, fx
KGAX	Foss No. 21.....b	KGKE	Texas and Louisiana No. 1 (portable).....fx
KGAY	Yarmouth.....b	KGKM	Beaumont, Tex.....fx
KGAZ	Evangeline.....b	KGKN	California (portable).....fx
KGBA	Salmon King.....b	KGKP	do.....fx
KGBB	Ivanco.....b	KGKQ	Garden City, Kans.....fa, fx
KGBD	Daniel J. Morrell.....b	KGKR	Third radio zone No. 48 (portable).....fx
KGBE	Edward Y. Townsend.....b	KGKS	Third radio zone No. 49 (portable).....fx
KGBF	Samona.....b	KGKT	Third radio zone No. 50 (portable).....fx
KBGG	Dorchester.....b	KGKU	Third radio zone No. 51 (portable).....fx
KBBH	La Merced.....b	KGKW	Tacoma, Wash.....fa, fx
KBBI	Brooks-Seanlon.....b	KGL	Port Hobron, Alaska.....fc
KBBJ	John N. Stewart.....b	KGM	Ketchikan, Alaska, radio.....fc, fx
KBBN	Madison.....b	KGMA	Hermosa.....b
KBBO	Elton Hoyt II.....b	KGME	Texas, Louisiana, and Oklahoma (portable).....fx
KBBP	David P. Thompson.....b	KGMF	do.....fx
KBBQ	Alden A. Mills.....b	KGMG	do.....fx
KBBR	Louis M. Winslow.....b	KGMH	do.....fx
KBV	Maurice Tracy.....b	KGMI	Texas, Louisiana, and Oklahoma No. 6 (portable).....fx
KBCC	Wm. A. Lydon.....b	KG MJ	Texas, Louisiana, and Oklahoma No. 7 (portable).....fx
KBCE	Fairfax.....b	KG MK	Texas, Louisiana, and Oklahoma No. 8 (portable).....fx
KBCF	Sumar.....b	KG ML	Texas, Louisiana, and Oklahoma No. 9 (portable).....fx
KBG	Oceania Vance.....b	KG MM	General call for all vessels operated by Mackay Radio & Telegraph Co.....b
KBGK	Hilda.....b	KG MN	Texas, Louisiana, and Oklahoma No. 10 (portable).....fx
KBGL	Sea Rover.....b	KG MO	Texas, Louisiana, and Oklahoma No. 11 (portable).....fx
KBGW	Fan Kwai.....b	KG MP	Atlantic.....b
KBG	Salt Lake City, Utah.....fx	KG MQ	Patria.....b
KBGD	Sphinx.....b	KG MR	Washington.....b
KBGD	Charles G. Black.....b	KG MS	Robert W. Wilmot.....b
KBDD	Absaroka.....b	KG MU	F. F. F.....b
KBDE	Western Queen.....b	KG MV	Chester Sun.....b
KBDF	Algonquin.....b	KG MW	Jimmie K.....b
KBDG	Faith.....b	KG MX	Quick Silver II.....b
KBDD	Jezebel.....b	KG MY	Black Douglas.....b
KBDE	Four Winds.....b	KG MZ	Comoco.....b
KBDF	Bering.....b	KGN	North Bend, Oreg., radio.....fe
KBDD	Bonnie Brook.....b	KGND	Wawona.....b
KBDD	Medford, Oreg. (municipal airport).....fa, fx	KGNE	Veedol No. 2.....b
KBEB	Milton S. Patrick.....b	KGNG	Burstow, Calif.....fa, fx
KBEC	D. M. Renton.....b	KGNH	Glendale, Calif.....fa, fx
KBEG	Northern Light.....b	KGNI	East St. Louis, Ill.....fa, fx
KBEG	Gulf Pride.....b	KGNJ	Kansas City, Mo.....fa, fx
KBEP	Astoria.....b	KGNK	Munardan.....b
KBFC	Crusader.....b	KGNL	Etak.....b
KBFD	Iroquois.....b	KGNM	Doris E.....b
KBFE	L. E. Block.....b	KGNN	Munerie.....b
KBFG	A. & P. Nakeen No. 7.....b		
KBFG	Theodore Roosevelt.....b		
KBFG	Hectore Island, Alaska.....fc, fx		
KBFG	Chilcop.....b		
KBFG	Suffolk.....b		
KBFG	Middlesex.....b		
KBFG	Iroquois.....b		

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

Call	Station	Call	Station
KGNP	Alitak.....b	KGSR	Pueblo, Colo.....fx
KGNQ	Afognak.....b	KGSS	Seattle, Wash.....fa, fx
KGNR	Western States (portable).....fx	KGSU	Midland, Tex.....fa, fx
KGNS	Samar III.....b	KGSW	Portland, Oreg.....fa, fx
KGNT	Brant.....b	KGSX	San Diego, Calif.....fx
KGNU	Raven.....b	KGSY	El Centro, Calif.....fa, fx
KGNV	Thrasher.....b	KGSZ	Douglas, Ariz.....fa, fx
KGNW	Charles R. Wilson.....b	KGTA	Fresno, Calif. (Avinion Field).....fa, fx
KGNX	Yes Bay.....b	KGTD	Hollbrook, Ariz.....fx
KGNY	N. F. Leopold.....b	KGTE	Wichita, Kans.....fx
KGNZ	Joseph Block.....b	KGTF	Kansas City, Mo.....fx
KGOA	Canahodta.....b	KGTH	Salt Lake City, Utah.....fx
KGOB	Listo.....b	KGTI	Los Angeles, Calif. (Alhambra Air- port).....fx
KGOC	Sister.....b	KGUJ	Las Vegas, Nev.....fx
KGOD	Vivo.....b	KGTL	Kingman, Ariz.....fx
KGOE	Gavine.....b	KGTM	Avalon, Calif. (Catalina Island).....fx
KGOF	F. P. C. No. 2.....b	KGUA	El Paso, Tex. (municipal airport).....fa, fx
KGOG	Western Sun.....b	KGUB	Houston, Tex. (municipal air- port).....fa, fx
KGOH	San Antonio, Tex.....fx	KGUC	Fort Worth, Tex. (Meacham Field).....fa, fx
KGOI	Herbert F. Black.....b	KGUD	San Antonio, Tex. (Winburn Field).....fa, fx
KGOJ	Virginia Sinclair.....b	KGUF	Dallas, Tex. (Love Field).....fa, fx
KGOK	Harry F. Sinclair, Jr.....b	KGUG	Big Spring, Tex. (municipal air- port).....fa, fx
KGOL	San Antonio, Tex. (portable).....fx	KGUH	Waco, Tex. (municipal airport).....fa, fx
KGOM	Zaca.....b	KGVA	United States No. 6—throughout (portable).....fx
KGOO	Norseman.....b	KGVB	United States No. 10 throughout (portable).....fx
KGOQ	Cambriana.....b	KGVC	United States No. 11—throughout (portable).....fx
KGOR	David B.....b	KGVD	United States No. 12—throughout (portable).....fx
KGOS	Island of Onahu, Hawaii, radio.....fc, fx	KGVE	United States No. 13—throughout (portable).....fx
KGOT	Mauna Loa, Hawaii radio (Island of Molokai).....fc, fx	KGX	Los Angeles, Calif.....fx
KGOU	Infanta.....b	KGXA	Manawahua, Hawaii (Oahu Island).....fx
KGOV	Morro Castle.....b	KGXB	do.....fx
KGOX	Oriente.....b	KGXC	do.....fx
KGOY	San Antonio, Tex.....fx	KGXD	do.....fx
KGOZ	Cedar Rapids, Iowa.....fx	KGXE	do.....fx
KGP	Kake, Alaska.....fc, fx	KGXF	do.....fx
KGPA	Seattle, Wash.....fc, fx	KGXG	do.....fx
KGPB	Minneapolis, Minn.....fx	KGXH	Ulupalakua, Hawaii (Maui Island).....fx
KGPC	St. Louis, Mo.....fx	KGXI	do.....fx
KGPD	San Francisco, Calif.....fx	KGXJ	do.....fx
KGPE	Kansas City, Mo.....fx	KGXK	Waikii, Hawaii.....fx
KGPF	Portland, Oreg.....fx	KGXL	do.....fx
KGPP	General call signal for all vessels of Portland Trawling Co.....b	KGXM	do.....fx
KGPT	Mussel Rock, Calif.....fx	KGXN	Kaunakakai, Hawaii (Molokai Island).....fx
KGQ	Placida.....b	KGXO	Kalepa, Hawaii (Kauai Island).....fx
KGQA	Eastern Sun.....b	KGXP	Lanai Island, Hawaii.....fx
KGQB	President Warfield.....b	KGZ	Texas and Louisiana No. 16—por- table).....fx
KGQC	Sylvia.....b	KGZZ	General call for all vessels of Atlantic Refining Co.....b
KGQD	Fritz Beyer.....b	KHA	Uyak, Alaska, radio.....fc, fx
KGQE	America.....b	KHAAZ	NC-9775.....a
KGQF	James W. Goo.....b	KHABY	NC-9776.....a
KGQG	Chicken of the Sea.....b	KHACX	NC-1612.....a
KGQH	L-mora.....b	KHADW	NC-9864.....a
KGQI	Houston.....b	KHAEV	NC-454E.....a
KGQJ	Patrick J. Hurley.....b	KHAFU	C-268.....a
KGQK	Southland.....b	KHAGT	F-102.....a
KGQM	Sayonara.....b	KHAHS	NC-9685.....a
KGQN	Navigator.....b	KHAIB	F-103.....a
KGQO	Crescent City.....b	KHAJQ	F-101.....a
KGQR	Perobsoot.....b	KHAKP	NC-8000.....a
KGQS	Vileehi.....b	KHAFU	NC-9701.....a
KGQT	William J. Gaynor.....b	KHAPK	NC-8044.....a
KGQU	California.....b	KHAQJ	NC-9637.....a
KGQV	Talayha.....b	KHARI	NC-9703.....a
KGQW	Juneau, Alaska.....fa, fx	KHASH	NC-9107.....a
KGQX	Seattle, Wash.....fa, fx	KHAUF	NC-9151.....a
KGQY	California (portable).....fa, fx	KHAUG	NC-231E.....a
KGQZ	San Diego, Calif.....fa, fx	KHAVE	NC-8020.....a
KGR	Edmonds, Wash., radio.....fx	KHAWD	NC-395E.....a
KGS	Honolulu, Hawaii.....fx		
KGSA	Abilene, Tex.....fa, fx		
KGSB	Oakland, Calif.....fa, fx		
KGSD	Albuquerque, N. Mex.....fx		
KGSE	Amarillo, Tex.....fx		
KGSI	Phoenix, Ariz.....fx		
KGSK	Montague, Calif.....fa, fx		
KGSL	Flagstaff, Ariz.....fx		
KGSM	El Paso, Tex.....fx		
KGSP	Denver, Colo.....fx		
KGSQ	Dallas, Tex.....fc, fx		

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

Call	Station	Call	Station
KHAXC	NC-396E.....a	KHESH	Cuba.....a
KHAYB	NC-7770.....a	KHETG	San Juan.....a
KHB	Kvichak, Alaska.....fx	KHEYB	Haiti.....a
KHBAZ	C-269.....a	KHEZA	Port of Spain.....a
KHBBY	C-270.....a	KHF	Snag Point, Alaska.....fc, fx
KHBCX	C-272.....a	KHFAZ	NC-9137.....a
KHBDW	C-273.....a	KHFBY	NC-3314.....a
KHBEV	C-274.....a	KHFCX	NC-5192.....a
KHBGT	C-276.....a	KHFDW	810-H.....a
KHBIS	C-277.....a	KHFEB	NC-147H.....a
KHBJQ	C-279.....a	KHFFU	NC-811H.....a
KHBKP	C-281.....a	KHFIS	NC-812H.....a
KHBMN	C-283.....a	KHFIR	NC-814H.....a
KHBNM	C-284.....a	KHIFJQ	NC-813H.....a
KHBOL	C-285.....a	KHFKP	NC-75K.....a
KHBPB	C-286.....a	KHFLO	NC-9688.....a
KHBQJ	C-287.....a	KHFNM	NC-142M.....a
KHBRI	C-288.....a	KHFOL	NC-144M.....a
KHBTG	C-290.....a	KHFPPK	NC-145M.....a
KHBUF	C-291.....a	KHFQJ	NC-146M.....a
KHBVE	C-292.....a	KHFRI	NC-300N.....a
KHC	Chignik, Alaska.....fc, fx	KHFSH	NC-304N.....a
KHCAZ	F-104.....a	KHFTG	NC-9670.....a
KHCBY	F-105.....a	KHFUF	NC-306N.....a
KHCCX	F-106.....a	KHFEV	NC-309N.....a
KHCDW	F-107.....a	KHFFWD	NC-945M.....a
KHCEV	F-108.....a	KHFXC	NC-9673.....a
KHCFU	F-109.....a	KHG	Clarks Point, Alaska.....fx
KHCGT	F-110.....a	KHGAZ	NC-196H.....a
KHCHS	F-111.....a	KHGBY	NC-8022.....a
KHCIR	F-112.....a	KHGCX	NC-132H.....a
KHCJQ	F-114.....a	KHGDW	NC-133H.....a
KHCKP	F-115.....a	KHGEV	NC-107H.....a
KHCLO	Fokker 2.....a	KHGFU	NC-109H.....a
KHCMN	Fokker 3.....a	KHGGT	NC-110H.....a
KHCNM	No. 400 W. A. E.....a	KHGH8	NC-134H.....a
KHCOL	No. 401 W. A. E.....a	KHGIR	NC-9144.....a
KHCPK	No. 402 W. A. E.....a	KHGJQ	NC-86K.....a
KHCQJ	F-116 W. A. E.....a	KHGGK	NC-9780.....a
KHCSH	No. 51 W. A. E.....a	KHGLO	NC-9751.....a
KHCTG	No. 52 W. A. E.....a	KHGMN	NC-9735.....a
KHCUF	No. 53 W. A. E.....a	KHGNM	NC-9608.....a
KHCEV	F-113 W. A. E.....a	KHGOL	NC-9609.....a
KHD	Burnett Inlet, Alaska, radio.....fc, fx	KHIL	Port Armstrong, Alaska.....fc, fx
KHDAZ	The City of New York.....a	KHHA Y	NC-8031.....a
KHDBY	The Kansas City.....a	KHIAZ	NC-182H.....a
KHDCX	City of Albuquerque.....a	KHIBY	NC-805E.....a
KHDDW	City of Washington.....a	KHICX	Creole.....a
KHDEW	City of Wichita.....a	KHIDW	Defender.....a
KHDFU	City of Los Angeles.....a	KHIEV	NC-106N.....a
KHDGT	City of Indianapolis.....a	KHIFU	Juneau.....a
KHDHS	City of Columbus.....a	KHIGT	Ketchikan.....a
KHDJQ	City of St. Louis.....a	KHIIR	Arf Pint.....a
KHDKP	City of Philadelphia.....a	KHIJQ	The New Arbella.....a
KHDLO	NC-9652.....a	KHIKP	Travel Air.....a
KHDMN	NC-9653.....a	KHILO	NR-496M.....a
KHDNM	NC-9654.....a	KHIMN	City of New York.....a
KHDOL	NC-9655.....a	KHINM	NC-23V.....a
KHDPK	NC-9656.....a	KHIOL	NC-342N.....a
KHDQJ	NC-9657.....a	KHIIPK	111N.....a
KHDRI	NC-9658.....a	KHIQJ	NC-5999.....a
KHDSH	NC-9659.....a	KHIRI	NR-9696.....a
KHDTG	NC-9660.....a	KHITG	NC-9784.....a
KHDUF	NC-9686.....a	KHIWD	City of Tacoma.....a
KHDVE	NC-9638.....a	KHJAZ	C-183E.....a
KHDWD	NC-9639.....a	KHJBY	C-415E.....a
KHDXC	NC-9640.....a	KHJCX	C-413E.....a
KHDYB	NC-9641.....a	KHJDW	C-192E.....a
KHDZA	NC-8413.....a	KHJEV	C-191E.....a
KHE	Mazama (permanently moored ves- sel at Herendeen Village, Alaska).....fx	KHJFU	C-7137.....a
KHEBY	NC-8043.....a	KHJGT	C-7136.....a
KHECX	NC-9157.....a	KHJHS	C-7135.....a
KHEDW	Washington.....a	KHJIR	C-187E.....a
KHEFU	City of Glendale.....a	KHJJQ	C-189E.....a
KHEHS	The Blue Streak.....a	KHJKP	C-190E.....a
KHEIR	X-118E.....a	KHJLO	C-188E.....a
KHELO	Three Johns.....a	KHJMN	C-185E.....a
KHEMN	NC-800E.....a	KHJNM	C-184E.....a
KHEPK	NC-100K.....a	KHJOL	C-224M.....a
KHERI	Havana.....a	KHJPK	C-225M.....a
		KHJQJ	C-417E.....a

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

Call	Station	Call	Station
KHJRI	NC-793K.....a	KIFP	Golden Eagle.....b
KHJSH	C-226M.....a	KIFQ	Point Bonita.....b
KHJTG	NC-227M.....a	KIFR	Barranca.....b
KHJUF	NC-842M.....a	KIFV	Andrea F. Luckenbach.....b
KHJVE	NC-230M.....a	KIFX	Youngstown.....b
KHJWD	NC-229M.....a	KIFZ	Lorain.....b
KHJXC	NC-232M.....a	KIGC	Humaonna.....b
KHK	Waiiawa, Hawaii (Island of Oahu) radio.....fe	KIGD	Hulver.....b
KHKBY	Rio De La Plata.....a	KIGF	Willmoto.....b
KHKFU	NC-632M.....a	KIGL	Polybius.....b
KHKGT	NC-633M.....a	KIGQ	Santa Elisa.....b
KHKHS	NC-634M.....a	KIGR	Exchange.....b
KHKIR	X-657M.....a	KIGS	Harry Luckenbach.....b
KHKLO	New York.....a	KIGT	Bessener.....b
KHKMN	Santos.....a	KIGZ	Silverspruce.....b
KHKNM	Fleetster No. 2.....a	KIHA	Skellytown, Tex.....fx
KHKOL	Uruguay.....a	KIIB	Malolo lifeboat No. 1.....b
KHKPK	Trinidad.....a	KIIB	Malolo lifeboat No. 2.....b
KHKQJ	Argentina.....a	KIJC	Third radio zone No. 35 (portable).....fx
KHKRI	Fleetster No. 3.....a	KIJD	Balsam.....b
KHKTG	Yankee Doodle.....a	KIJE	Barronfork.....b
KHKUF	Porto Rico.....a	KIJJ	Barryton.....b
KHKVE	Miami.....a	KIJJ	Sabalawan.....b
KHL	Wailuku, Hawaii.....fx	KIJJ	Dorothy Luckenbach.....b
KHLAZ	C-178E.....a	KIJJ	Brush.....b
KHLBY	C-179E.....a	KIJJ	Hoxbar.....b
KHLCX	C-740K.....a	KIJJ	Buttercup.....b
KHLDW	C-741K.....a	KIKM	Cuzco.....b
KHLEV	C-743K.....a	KIKQ	Ambridge.....b
KHLFU	C-5340.....a	KIKR	Clairton.....b
KHLGT	C-5389.....a	KIKT	Evansville.....b
KHLHS	C-5390.....a	KIKX	Golden Rod.....b
KHM	Lihue, Hawaii (Island of Kauai) radio.....fx	KIKZ	Arcturus.....b
KHMAZ	NC-7117.....a	KIL	Jolo, P. I., radio (Jolo Island).....fe
KHMBY	NC-7119.....a	KILF	Elmsport.....b
KHMCX	NC-7582.....a	KILJ	Grays Harbor.....b
KHMDW	NC-185H.....a	KILK	Colorado Springs.....b
KHMEV	NC-725K.....a	KILL	Olympia.....b
KHMFU	NC-726K.....a	KILL	El Capitan.....b
KHN	Lanai, Hawaii.....fx	KILL	Seattle.....b
KHO	Kaunakakai, Hawaii (Island of Molo- kai).....fx	KILL	West Calumb.....b
KHP	Fifth radio zone (portable).....fx	KILL	Ipswich.....b
KHIR	Santa Barbara, Calif.....fx	KILL	West Cawthon.....b
KHRCX	NC-9779.....a	KIM	Latoche, Alaska, radio.....fe, fx
KHS	Fifth radio zone (portable).....fx	KIMC	Tripp.....b
KHT	Naknek, Alaska, radio.....fe, fx	KIMD	Deer Lodge.....b
KHU	Warren, Alaska.....fx	KIMG	West Chetac.....b
KHV	Cyak, Alaska.....fx	KIMN	Salvation Lass.....b
KHW	Fifth radio zone (portable).....fx	KIMQ	East Side.....b
KHY	Scow No. 5 (moored vessel near Nush- nak, Alaska).....fe	KIMR	Dochet.....b
KHZ	Fifth radio zone (portable).....fx	KIMS	Alpha.....b
KIB	Third radio zone No. 38 (portable).....fx	KIMT	Mount Evans.....b
KIBD	Shenandoah.....b	KIMX	San Domingo.....b
KIBF	Malama.....b	KIMZ	Pinestone County.....b
KIBQ	Exminster.....b	KINB	Ogontz.....b
KIC	Third radio zone No. 37 (portable).....fx	KIND	Falcon.....b
KICM	Edgewood.....b	KINJ	Watertown.....b
KICN	Tacoma.....b	KINJ	Munleon.....b
KICP	Yorkmar.....b	KINM	Lehigh.....b
KICQ	West Isleta.....b	KINX	Eversett.....b
KICR	Barreado.....b	KINP	Charles Christenson.....b
KICS	Zarembo.....b	KINQ	Felbeck.....b
KIDC	Satartia.....b	KINR	Berury.....b
KIDF	Hegira.....b	KIO	Kahuku, Hawaii.....fx
KIDQ	Seloodie.....b	KIP	South San Francisco, Calif.....fx
KIDR	Spencer Kellogg.....b	KIPG	Dovlostown.....b
KIDT	Barrallton.....b	KIPJ	West Chatala.....b
KIDX	Waukegan.....b	KIPK	West Segovia.....b
KIDZ	San Pedro.....b	KIPL	S. B. Hunt.....b
KIE	Kahuku, Hawaii.....fx	KIPS	Geo. H. Jones.....b
KIF	Davao, P. I., radio (Mindanao Is- land).....fe	KIPT	Edna.....b
KIFB	West Irmo.....b	KIPV	Excello.....b
KIFD	Texmar.....b	KIPX	Maiden Creek.....b
KIPG	Favorite.....b	KIQC	Westmoreland.....b
KIFJ	Kishacoquillas.....b	KIQD	Bolivar.....b
KIFL	Stellaris.....b	KIQE	Hugoton.....b
KIFN	Humrick.....b	KIQV	Exiria.....b
		KIQX	Flour Spar.....b
		KIQZ	Liberty Glo.....b
		KIRB	Commercial Navigator.....b
		KIRF	Washington.....b

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

Call	Station	Call	Station
KIRG	New Britain.....	KJQ	Hoquiam, Wash., radio.....
KIRK	Sharon.....	KJS	Borger, Tex. (near).....
KIRT	Derbyline.....	KJT	No. 3 (portable).....
KIS	Iowa City, Iowa.....	KJUA	Georgian.....
KISC	Coya.....	KJUE	Jacob Luckenbach.....
KISD	Seattle Spirit.....	KJUI	Ernest H. Meyer.....
KISF	Seattle.....	KJUC	West Alek.....
KISG	Golden Star.....	KJV	Baytown, Tex.....
KISJ	Stanley.....	KJW	No. 4 (portable).....
KISK	West Keene.....	KJY	No. 5 (portable).....
KISM	Baldbutte.....	KJZ	No. 1 (portable).....
KISQ	Afel.....	KKA	Yakutat, Alaska, radio.....
KISS	City of Fairbury.....	KKAU	Tracy Brothers.....
KISU	Excellency.....	KKB	Sherwood, Oreg., radio.....
KITJ	Innoko.....	KKD	Third radio zone No. 35 (portable).....
KITK	Bellbucklo.....	KKF	Third radio zone No. 34 (portable).....
KITL	Wytheville.....	KKH	Kahuku, Hawaii.....
KITP	Genevieve Lykes.....	KKJ	Fort Worth, Tex.....
KITQ	International.....	KKL	Bolinas, Calif.....
KITX	Willfaro.....	KKO	Elko, Nev. (municipal airport).....
KITZ	Charcas.....	KKP	Kahuku, Hawaii.....
KIV	Puerto Princesa, P. I., radio (Palawan).....	KKQ	Bolinas, Calif.....
KIVB	Minnequa.....	KKR	do.....
KIVC	Kewanee.....	KKU	Third radio zone No. 33 (portable).....
KIVF	Lighthurne.....	KKUI	J. H. Sheadio.....
KIVG	Huguenot.....	KKV	Third radio zone No. 32 (portable).....
KIVR	Benconoil.....	KKW	Bolinas, Calif.....
KIVS	Delina.....	KKX	Third radio zone No. 31 (portable).....
KIVT	Delisle.....	KKY	Third radio zone No. 30 (portable).....
KIVV	West Cactus.....	KKZ	Bolinas, Calif.....
KIWA	Zamboanga, P. I., radio (Mindanao Island).....	KLIU	Frank Lynch.....
KIX	Cuyo, P. I., radio (Palawan).....	KLA	Texas and Louisiana No. 12 (portable).....
KIXB	West Cheswald.....	KLB	Portland, Oreg.....
KIXK	Lafcomo.....	KLD	Kenai, Alaska.....
KIXL	Tulsa.....	KLE	Texas and Louisiana No. 11 (portable).....
KIXM	Montauk.....	KLG	Texas and Louisiana No. 9 (portable).....
KIXN	Mallennak.....	KLI	Texas and Louisiana No. 8 (portable).....
KIXX	West Selene.....	KLIJ	Nushagak, Alaska, radio.....
KIXZ	San Jose, P. I., radio (Mindoro Island).....	KLK	Reno, Nev.....
KIZ	Malabang, P. I., radio (Mindanao Island).....	KLL	Bolinas, Calif.....
KIZB	Domino.....	KLN	Hilo, Hawaii.....
KIZC	Bakersfield.....	KLOE	Lake Hemlock.....
KIZD	De Bardeleben.....	KLP	Uganik, Alaska.....
KIZF	Buffalo Bridge.....	KLR	Alameda, Calif.....
KIZM	Stella Lykes.....	KLT	Texas and Louisiana No. 10 (portable).....
KIZN	Shickshinny.....	KLUE	Robert Johnson.....
KIZQ	Bannack.....	KLUI	Dorothy Wintermote.....
KIZR	Winona County.....	KLW	Port Althorp, Alaska.....
KIZS	Vincent.....	KLY	Texas and Louisiana No. 7 (portable).....
KIZV	Imlay.....	KMAI	Catherine D.....
KIZX	Labette.....	KMAU	Cities Service Empire.....
KJA	Texas and Louisiana No. 17 (portable).....	KMC	Kasaan, Alaska.....
KJAI	West Durfee.....	KMD	Texas and Louisiana No. 6 (portable).....
KJAO	Helen Whittier.....	KME	Strevell, Idaho.....
KJBB	Chignik, Alaska.....	KMEO	Cletus Schneider.....
KJCC	Rose Inlet, Alaska.....	KMF	Egegik, Alaska, radio.....
KJCD	Texas and Louisiana No. 18 (portable).....	KMG	Ekuk, Alaska.....
KJE	Reno, Nevada (Hubbard Field).....	KMI	Texas and Louisiana No. 5 (portable).....
KJEL	Point Breeze.....	KMIE	Dorothy.....
KJEU	El Salvador.....	KMIU	W. M. Burton.....
KJF	Omaha, Nebr.....	KMK	Naknek, Alaska.....
KJG	Louisiana, Mississippi, and Texas No. 12 (portable).....	KML	Lockanok, Alaska.....
KJI	Nakeen, Alaska (Bristol Bay).....	KMM	Bolinas, Calif.....
KJIE	Walter A. Luckenbach.....	KMOI	Eldorado.....
KJII	Muscantine.....	KMOU	Edward Peirce.....
KJJO	Paul H. Harwood.....	KMP	Omaha, Nebr. (Fort Crook Air Mail Field).....
KJJ	Mary Island Lighthouse, Alaska.....	KMR	North Platte, Nebr. (municipal airport).....
KJK	King Cove, Alaska, radio.....	KMS	Texas and Louisiana No. 4 (portable).....
KJL	False Pass, Alaska, radio.....	KMT	Libbyville, Alaska, radio.....
KJM	Bartlesville, Okla.....	KMU	Ugashik, Alaska.....
KJN	No. 2 (portable).....		
KJO	No. 1 (portable).....		
KJOE	W. M. Irish.....		
KJOO	Barbara Cates.....		

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

Call	Station	Call	Station
KMUI	George W. Barnes..... b	KOGZ	Commissioner..... b
KMW	Akutan, Alaska (Aleutian Islands)..... fc	KOI	Third radio zone No. 4 (portable)..... fx
KMX	Texas and Louisiana No 3 (portable)..... fx	KOJ	Elko, Nev..... b
KMY	Texas and Louisiana No. 2 (portable)..... fx	KOJD	Examiner..... b
KMZ	Texas and Louisiana No. 1 (portable)..... fx	KOJF	Montana..... b
KNAE	West Cohas..... b	KOJG	Silverook..... b
KNB	Louisiana, Mississippi, and Texas No. 5 (portable)..... fx	KOJJ	Wyoming..... b
KNC	Louisiana, Mississippi, and Texas No 15 (portable)..... fx	KOJK	Hanover..... b
KND	Louisiana, Mississippi, and Texas No. 16 (portable)..... fx	KOJL	Cripple Creek..... b
KNE	Louisiana, Mississippi, and Texas No. 18 (portable)..... fx	KOJR	Chickasaw..... b
KNEE	Santa Tecla..... b	KOJS	Magmarie..... b
KNF	Louisiana, Mississippi, and Texas No. 19 (portable)..... fx	KOJX	Lake Galewood..... b
KNH	Warm Springs Bay, Alaska..... fx	KOJZ	Lake Gaither..... b
KNJ	Nushagak, Alaska..... fc, fx	KOK	Clearwater, Calif., radio (Los Angeles)..... fc
KNK	Palo Alto, Calif..... fx	KOKC	Defacto..... b
KNL	Third radio zone No. 21 (portable)..... fx	KOKF	Belleplaine..... b
KNM	Third radio zone No. 20 (portable)..... fx	KOKP	Golden Horn..... b
KNN	Kailua, Hawaii (Honolulu)..... fx	KOKR	Dora..... b
KNO	Nushagak, Alaska, radio..... fx	KOKS	Ruth Lykes..... b
KNP	Chignik, Alaska, radio..... fc, fx	KOKT	Bethnor..... b
KNQ	Third radio zone No. 19 (portable)..... fx	KOLB	Aryan..... b
KNR	Clearwater, Calif..... fx	KOLC	San Diego..... b
KNS	Third radio zone No. 18 (portable)..... fx	KOLD	Antonia..... b
KNT	Third radio zone No. 17 (portable)..... fx	KOLL	Clavarak..... b
KNU	Third radio zone No. 16 (portable)..... fx	KOLP	Cathlamet..... b
KNUO	Mazama..... b	KOLT	Eflingham..... b
KNW	Palo Alto, Calif. (near)..... fx	KOLX	Cranford..... b
KNY	Third radio zone No. 12 (portable)..... fx	KOLZ	Upshur..... b
KNZ	Third radio zone No. 11 (portable)..... fx	KOM	Naknek, Alaska..... fc, fx
KOBG	Editor..... b	KOMC	Buenaventura..... b
KOBJ	Deroche..... b	KOMD	Capac..... b
KOBK	San Simeon..... b	KOMJ	Penguin..... b
KOBM	Willpolo..... b	KOML	Herman F. Whiton..... b
KOBN	Olean..... b	KOMM	Scottsburg..... b
KOBP	Bird City..... b	KOMP	Ccahoma County..... b
KOBR	Barwick..... b	KOMQ	Afoundria..... b
KOBT	Lake Inglenook..... b	KOMT	Rifna..... b
KOBV	Baldhill..... b	KOMV	Golden Tide..... b
KOBX	Margaret Lykes..... b	KON	Union Bay, Alaska, radio..... fc, fx
KOC	Sacramento, Calif. (Mather Field)..... fx	KONM	City of Fort Worth..... b
KOCJ	Aquilo..... b	KONR	Antietam..... b
KOCL	Elkhorn..... b	KONS	City of Houston..... b
KOCN	Point Montara..... b	KONT	City of Philadelphia..... b
KOCP	Point Fermin..... b	KONV	Nabesna..... b
KOCV	West Saginaw..... b	KONZ	City of Alton..... b
KOCX	West Jaffrey..... b	KOP	San Francisco, Calif..... fx
KOD	Third radio zone No. 10 (portable)..... fx	KOPD	Dannedaika..... b
KODB	Exmoor..... b	KOPJ	Muntropic..... b
KODC	Sunbeam..... b	KOPK	Vermar..... b
KODF	West Caddoa..... b	KOPL	Flomar..... b
KODN	Endicott..... b	KOPQ	Bellflower..... b
KODQ	Mericos H. Whittier..... b	KOPR	Kearny..... b
KODR	Arizona..... b	KOPT	Eglantine..... b
KODT	Golden Fleece..... b	KOPZ	Portmar..... b
KODV	Express..... b	KOQ	San Francisco, Calif..... fx
KODX	Dillwyn..... b	KOQB	Losmar..... b
KODZ	Bangu..... b	KOQC	Hagan..... b
KOE	Cheyenne, Wyo. (municipal airport)..... fa, fx	KOQD	Hagood..... b
KOF	Third radio zone No. 5 (portable)..... fx	KOQE	Trimountain..... b
KOFC	Bellhaven..... b	KOQJ	Casey..... b
KOFD	Anaconda..... b	KOQK	Coldbrook..... b
KOFG	Dean Emery..... b	KOQL	George C. Greer..... b
KOFM	Lake Ellithorpe..... b	KOQM	Satoco..... b
KOFN	Cockaponset..... b	KOQQ	West Ivis..... b
KOFP	Munloyal..... b	KOQR	Kingfisher..... b
KOFS	Bascobel..... b	KOQS	Egremont..... b
KOG	Honolulu, Hawaii..... fc, fx	KOQV	Corinto..... b
KOGL	West Ira..... b	KOR	Quadra, Alaska..... fx
KOGN	Brave Coeur..... b	KORB	San Clemente..... b
KOGP	Hadnot..... b	KORC	Macomet..... b
KOGR	Lake Fairport..... b	KORD	Sundance..... b
KOGS	Lake Flatonia..... b	KORK	Dryden..... b
		KORM	Jadden..... b
		KORQ	Bogota..... b
		KORT	Munlisto..... b
		KORV	Wildwood..... b
		KORX	Cliffwood..... b
		KOS	Los Angeles, Calif..... fx
		KOSB	Widgeon..... b
		KOSL	New York..... b

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Call	Station	Call	Station
KOSM	Extavia.....b	KQM	Des Moines, Iowa (municipal air- port).....fa, fx
KOSQ	Lake Treba.....b	KQOA	Anacortes.....b
KOST	Chester Valley.....b	KQOE	Delight.....b
KOSZ	Curlew.....b	KQP	Minneapolis, Minn.....fe
KOT	Third radio zone No. 3 (portable).....fx	KQQ	Iowa City, Iowa (municipal air- port).....fa, fx
KOTC	Teal.....b	KQR	Bolinas, Calif.....fx
KOTD	Golden Peak.....b	KQS	Independence, Calif.....fx
KOTF	Mitchell.....b	KQT	Los Angeles, Calif.....fx
KOTG	San Marcos.....b	KQU	Killisnoo, Alaska.....fx
KOTJ	Almoria Lykes.....b	KQUE	Lanester.....b
KOTK	West Neris.....b	KQUU	West Gamba.....b
KOTL	Eleanor Christenson.....b	KQX	Bakersfield, Calif. (Kern County air- port).....fa
KOTM	Robin Hood.....b	KQZ	Bolinas, Calif.....fx
KOTR	San Rafael.....b	KRA	Cedar Rapids, Iowa (municipal air- port).....fa, fx
KOTS	Wild Goose.....b	KRB	California (portable).....fx
KOTX	Exilona.....b	KRC	Kansas City, Mo.....fx
KOV	Port Herbert, Alaska.....fx	KRD	Sobastopol, Calif.....fx
KOVb	Gulftrade.....b	KREA	Emilia.....b
KOVJ	Dilworth.....b	KRF	Lincoln, Nebr. (municipal air- port).....fa, fx
KOVN	Robin Adair.....b	KRG	San Francisco, Calif.....fx
KOVV	Oakspring.....b	KRII	San Jose, Calif.....fx
KOVR	Abercros.....b	KRI	Loring, Alaska.....fe, fx
KOVT	Examelia.....b	KRIU	Liberator.....b
KOVV	Coelleda.....b	KRJ	Sacramento, Calif.....fx
KOVX	Tampa.....b	KRL	Bryan, Ohio.....fa, fx
KOVZ	I. J. Merritt.....b	KRM	Los Angeles, Calif.....fx
KOXD	Tashmo.....b	KRN	California (portable).....fx
KOXT	Robin Gray.....b	KRO	Kaluku, Hawaii.....fx
KOXV	Roanoke.....b	KRR	Texas and Louisiana (portable).....fx
KOXX	Staelmaker.....b	KRS	do.....fx
KOZ	Steel Age.....b	KRT	do.....fx
KOZB	Texas and Louisiana (portable).....fx	KRU	Shepard Point, Alaska, radio.....fe
KOZC	City of Omaha.....b	KRUU	Santa Flavia.....b
KOZD	City of Los Angeles.....b	KRV	Texas and Louisiana (portable).....fx
KOZE	Mana.....b	KRW	do.....fx
KOZF	Nevada.....b	KRX	Chichagof, Alaska, radio.....fe, fx
KOZG	West Hika.....b	KRZ	Texas and Louisiana (portable).....fx
KOZH	Quaker City.....b	KSA	Edmonds, Wash., radio.....fe
KOZI	Gulf of Venezuela.....b	ESB	Third radio zone No. 29 (portable).....fx
KOZJ	Point San Pablo.....b	KSBV	General call for all vessels of U. S. Ship- ping Board.....b
KOZK	Vigilant.....b	KSC	Katalla, Alaska, radio.....fe, fx
KOZL	Culburra.....b	KSE	Torrance, Calif., radio (Los Angeles) .....fe
KOZM	Golden West.....b	KSEA	James Ellwood Jones.....b
KOZN	Collamer.....b	KSEE	Mineola.....b
KOZP	Seattle, Wash.....fx	KSEU	Jonancy.....b
KOZZ	Charles L. Wheeler.....fx	KSF	Ponca City, Okla.....fx
KPAA	Charles L. Wheeler.....fx	KSG	Cheyenne, Wyo.....fx
KPB	Naknek, Alaska (Hyades-moored vessel).....fx	KSI	Albuquerque, N. Mex.....fa, ab
KPC	Batangas, P. I., radio (Batangas).....fe	KSL	Glen White.....b
KPD	Hawik Inlet, Alaska.....fe, fx	KSLB	View Cove, Alaska.....fx
KPE	Seattle, Wash., radio.....fe, fx	KSM	Los Angeles, Calif., radio.....fx
KPF	Texas and Louisiana (portable).....fx	KSNA	Republic lifeboat No. 1.....b
KPG	Los Angeles, Calif.....fx	KSNB	Republic lifeboat No. 2.....b
KPH	Bolinas, Calif., radio.....fe	KSOC	General call for all vessels of Standard Oil Co.....b
KPI	Cebu, P. I., radio.....fe	KSOI	Conroy.....b
KPJ	Culion, P. I., radio (Palawan).....fe	KSOU	Byalay.....b
KPL	Texas and Louisiana (portable).....fx	KSQ	Pleasant Valley, Nev.....fx
KPM	Hilo, P. I., radio (Hilo).....fe	KSR	Tyee, Alaska.....fx
KPN	Isabela de Basilan, P. I., radio (Zam- boanga).....fx	KSS	Climas, Calif.....fx
KPR	Pert Alexander, Alaska.....fe, fx	KST	Clovis, N. Mex.....fa, ab
KPS	Lezy Bay, Alaska, radio.....fe, fx	KSU	Breckenridge, Tex.....fx
KPT	Texas and Louisiana (portable).....fx	KSV	Winslow, Ariz.....fa, ab
KPU	Big Port Walter, Alaska.....fx	KSW	Berkeley, Calif.....fx
KPV	Malita, P. I., radio (Davao).....fx	KSX	Kingman, Ariz. (T. A. T. Airport) .....fa, ab
KPW	Lebak, P. I., radio.....fe	KSY	Waynoka, Okla.....fa, ab
KPX	San Francisco, P. I., radio (Camotes- Cebu).....fe	KSZ	McCamey, Tex.....fa, ab
KPY	Mati, P. I., radio (Davao).....fe	KTAO	Lake Frances.....b
KQC	Rock Springs, Wyo. (municipal air- port).....fa, fx	KTJ	Hilo, P. I.....fx
KQD	Salt Lake City, Utah (municipal air- port).....fa, fx	KTK	Mussel Rock, Calif., radio.....fe
KQG	Bolinas, Calif.....fx	KTL	Cebu, P. I.....fx
KQH	Kaluku, Hawaii.....fx	KTN	Manila, P. I.....fx
KQI	Hunters Bay, Alaska.....fx	KTO	do.....fx
KQJ	West Ekokok.....b		
KQIU	Bolinas, Calif.....fx		
KQK	Oklahoma City, Okla.....fe, fx		
KQL	Hidden Inlet, Alaska.....fx		

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Call	Station	Call	Station
KTOE	Mary..... b	KUJC	Bayport..... b
KTOI	Catherine..... b	KUJF	Kerhonkson..... b
KTP	Manila, P. I..... fx	KUJM	Coot..... b
KTQ	L. & McN. & L.VI No. 1 (permanently moored vessel in Kovichak River, Bristol Bay, Alaska)..... fe, fx	KUJN	Osprey..... b
KTR	Manila, P. I..... fx	KUJP	Peter Helms..... b
KTS	Tolong, P. I..... fx	KUJQ	Ethan Allen..... b
KTT	Drier Bay, Alaska..... fx	KUJR	City of Joliet..... b
KTU	Redding, Calif. (municipal airport)..... fa, fx	KUJS	Winston-Salem..... b
KTUI	Samoa..... b	KUJX	Liberty Bell..... b
KTUO	Sagadahoc..... b	KUJZ	Oregon..... b
KTY	Manila, P. I., radio..... fe, fx	KUK	Davao, P. I..... fx
KUA	Manila, P. I..... fx	KUKD	Point Sur..... b
KUB	Koggiung (permanently moored scow in Koggiung River, Alaska)..... fx	KUKF	Fort Armstrong..... b
KUBB	Cold Harbor..... b	KUKJ	San Bernardino..... b
KUBD	Claremont..... b	KUKL	Mala..... b
KUBF	San Diego..... b	KUKP	Delerof..... b
KUBG	Betterton..... b	KUKS	Robert Luckenbach..... b
KUBJ	Republic..... b	KUKV	California..... b
KUBK	Golden Mountain..... b	KUKX	Collingsworth..... b
KUBL	Golden Wall..... b	KUL	Pilot Point, Alaska..... fx
KUBM	Biboco..... b	KULB	Maltran..... b
KUBN	Robin Goodfellow..... b	KULC	Malhace..... b
KUBP	City of Alma..... b	KULK	Horace Luckenbach..... b
KUBV	Higo..... b	KULM	Ario..... b
KUC	Panabutan, P. I..... fx	KULN	Arizpa..... b
KUCC	Plow City..... b	KULT	Commack..... b
KUCD	Point Arena..... b	KULX	Otho..... b
KUCJ	Holyoke Bridge..... b	KULZ	Lyndonia..... b
KUCN	Eastern Guide..... b	KUM	Mambajno, P. I., radio..... fe
KUCQ	W. F. Burdell..... b	KUMC	Utacarbon..... b
KUCR	Lake Giddings..... b	KUMG	Homer..... b
KUCV	City of Flint..... b	KUMK	Freeport Sulphur No. 5..... b
KUCX	Coldwater..... b	KUML	Nosa Prince..... b
KUCZ	Bridgetown..... b	KUMM	Golden Harvest..... b
KUD	Bacharof, Alaska..... fx	KUMN	W. E. Hutton..... b
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	San Anselmo..... b	KUN	Bolinas, Calif..... fx
KUDK	Iowa..... b	KUNC	Commercial Pioneer..... b
KUDN	American Press..... b	KUND	Eastern Glade..... b
KUDP	Exermont..... b	KUNF	Pennmar..... b
KUDQ	Bellingham..... b	KUNG	Wichita Falls..... b
KUDR	Davenport..... b	KUNN	Oakpark..... b
KUDS	Commercial Mariner..... b	KUNP	Thermo..... b
KUDZ	Eastern Gale..... b	KUNQ	Eastern Crown..... b
KUFB	San Lucas..... b	KUNR	Pacific Cedar..... b
KUFC	General call for all vessels operated and controlled by Tropical Radio Telegraph Co..... b	KUNV	Exchester..... b
KUFD	Tillie Lykes..... b	KUNZ	Chickasaw City..... b
KUFG	Velma Lykes..... b	KUO	San Francisco, Calif..... fe, fx
KUFJ	West Nilus..... b	KUP	..... do..... fe
KUFK	Haiti..... b	KUPB	Sucarseco..... b
KUFN	Steel Voyager..... b	KUPD	Eastern Planet..... b
KUFP	Bethlehem Shipbuilding Corporation..... b	KUPF	Gulfpoint..... b
KUFQ	Tern..... b	KUPJ	Pacific Fir..... b
KUFR	West Campgaw..... b	KUPK	Elizabeth Kellogg..... b
KUFT	Plover..... b	KUPL	Conness Peak..... b
KUFX	Sheldrake..... b	KUPM	Patrick Henry..... b
KUFZ	Exbrook..... b	KUPN	Capillo..... b
KUGB	Willzipo..... b	KUPP	Cubore..... b
KUGD	Clearwater..... b	KUPT	Excelsior..... b
KUGG	Oakman..... b	KUPV	Chiloil..... b
KUGJ	Loon..... b	KUQD	Crudoil..... b
KUGM	Commercial Quaker..... b	KUQG	Padnsay..... b
KUGN	Commercial Floridian..... b	KUQJ	Golden Coast..... b
KUGP	Seminole..... b	KUQK	San Vincente..... b
KUGQ	Star of Holland..... b	KUQL	Martinique..... b
KUGS	Exmouth..... b	KUQM	Illinois..... b
KUGT	Jomar..... b	KUQP	Unicol..... b
KUGX	Ellenor..... b	KUQT	Eastern Dawn..... b
KUGZ	Lillian..... b	KUR	Evans Bay, Alaska..... fx
KUH	Manila, P. I..... fe, fx	KURC	Cathwood..... b
KUI	Cebu, P. I..... fx	KURD	Arcturus..... b
HUJB	The Angeles..... b	KURG	Artigas..... b
		KURJ	J. L. Reiss..... b
		KURM	Willboro..... b
		KURX	Diamond Cement..... b
		KURZ	Suboatco..... b
		KUS	Manila, P. I..... fx
		KUSB	Suedco..... b

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Call	Station	Call	Station
KUSC	Sunelsoo.....b	KWT	Palo Alto, Calif.....fx
KUSF	Nosa King.....b	KWW	Radioville, Alaska, radio.....fc, fx
KUSG	Pennsylvania.....b	KXK	Funter, Alaska.....fx
KUSJ	Occidental.....b	KXOA	Star of Lapland.....b
KUSK	Tejon.....b	KXOF	Severance.....b
KUSL	General call for all vessels of United States Lines.....b	KXS	Red Bluff Bay, Alaska, radio.....fc, fx
KUSN	Aquarius.....b	KXV	Nelson Lagoon, Alaska.....fx
KUSP	Crown City.....b	KXW	Ikatan, Alaska, radio.....fc, fx
KUSQ	Massmar.....b	KYD	Mount Baker (permanently moored vessel near Ugashik, Alaska).....fc
KUSR	Nemaha.....b	KYG	Honolulu, Hawaii, radio.....fc
KUST	West Carnak.....b	KYI	Kings Mill, Tex.....fx
KUTC	West Mahwah.....b	KYK	Karluk, Alaska (Kodiak Island).....fx
KUTD	Oregon.....b	KYL	Alitak, Alaska (Kodiak Island).....fc, fx
KUTG	Tanana.....b	KYM	Kvichak, Alaska.....fc, fx
KUTJ	S. A. Perkins.....b	KYN	Midway Island, Hawaii.....b
KUTK	James Griffiths.....b	KYU	Wichita Falls, Tex.....fx
KUTM	John P. Reiss.....b	KYV	Pillar Bay, Alaska.....fx
KUTS	Vacuum.....b	KYZ	Kenai, Alaska, radio.....fx
KUTT	Birmingham City.....b	KZAB	Samur.....b
KUTV	Providence.....b	KZAC	Bicol.....b
KUTX	Beaconlight.....b	KZAF	Bnsilan.....b
KUTZ	Rochester.....b	KZAG	Neil MacLeod.....b
KUU	Steambony Bay, Alaska (Noyes Island).....fc, fx	KZAJ	Ntra. Sra. Del Rosario.....b
KUV	Manila, P. I.....fx	KZAK	Albay.....b
KUVB	Eastern Glen.....b	KZAL	Luzon.....b
KUVC	City of Weatherford.....b	KZAM	Naga.....b
KUVD	Sidney M. Hauptman.....b	KZAN	Leyte.....b
KUVG	Berkshire.....b	KZAQ	Corregidor.....b
KUVK	Steel Mariner.....b	KZAR	Mindoro.....b
KUVL	Steel Trader.....b	KZAS	Ntra. Sra. De Alba.....b
KUVT	Jolee.....b	KZAT	Vizeya.....b
KUVV	Cardonia.....b	KZAV	Venus.....b
KUVX	Exanthia.....b	KZAX	Cebu.....b
KUVZ	Pacific Pine.....b	KZAY	Florence D.....b
KUW	Manila, P. I.....fx	KZBB	Sugbu.....b
KUY	Bear Creek, Alaska.....fx	KZBC	Tong Yek.....b
KUZ	Manila, P. I., radio.....fc	KZBD	Salvager.....b
KUZC	Hahira.....b	KZBF	Pompey.....b
KUZF	Makua.....b	KZBG	Panay.....b
KUZG	Admiral Chase.....b	KZBH	Bustamente.....b
KUZJ	Suelco.....b	KZBJ	Salvador.....b
KUZK	Suportco.....b	KZBK	Esperanza.....b
KUZN	Mary D.....b	KZBL	Alabat.....b
KUZQ	Garnet Hulings.....b	KZBM	Mauban.....b
KUZR	Capulin.....b	KZBN	Kinau.....b
KUZS	Easley City.....b	KZBQ	Macaria.....b
KUZT	Peter Kerr.....b	KZBV	Campendor.....b
KUZV	Dungannon.....b	KZBX	Islas Filipinas.....b
KUZZ	Cayo Mambi.....b	KZBY	Consuelo.....b
KVAE	Lake Benbow.....b	KZBZ	Antonio.....b
KVAI	Socony 82.....b	KZC	Lake Bay, Alaska.....fc, fx
KVAO	Socony 83.....b	KZCB	Sorsogon.....b
KVB	Pacific Coast (portable).....fx	KZCC	San Isidro.....b
KVC	Snug Harbor, Alaska.....fx	KZCG	Argus.....b
KVD	do.....fx	KZCH	Polillo.....b
KVE	do.....fx	KZCJ	Union.....b
KVF	Uganik, Alaska (Port O'Brien, Kodiak Island).....fc	KZCL	Capitan Luis.....b
KVG	Taku, Alaska radio.....fc, fx	KZCQ	Montanes.....b
KVH	do.....fx	KZCW	Ylolo.....b
KVIU	J. W. Van Dyke.....b	KZCY	Fernandez Hermanos.....b
KVJ	do.....fx	KZCZ	Don Juan O.....b
KVK	do.....fx	KZDB	Apo.....b
KVM	North Platte, Nebr.....fx	KZDC	San Carlos.....b
KVN	Shakan, Alaska.....fc	KZDD	Dos Hermanos.....b
KVO	Portland, Oreg. (Swan Island airport).....fa	KZDK	Visayas II.....b
KVP	Dallas, Tex.....fx	KZDL	Jolo.....b
KVQ	Kvichak (permanently moored scow in Koggiung River, Alaska).....fx	KZDM	Magallanes.....b
KVU A	Lake Ormoc.....b	KZDQ	Palawan.....b
KVV	Koggiung, Alaska, radio.....fc, fx	KZDR	Ulises.....b
KVW	Seattle, Wash.....fx	KZDS	Santo Domingo.....b
KWE	Bolinas, Calif.....fx	KZDT	Isidoro Pous.....b
KWH	Sentinel Island Light Station, Alaska.....fc	KZDV	Fortuna.....b
KWL	Anchorage, Alaska.....fc	KZEW	Mactan.....b
KWQ	Salchuck, Alaska (Kasaan Bay).....fx	KZFE	Aberdeen, Wash.....fc
KWR	Port Moller, Alaska.....fx	KZEB	Dominga-A.....b
		KZEC	Davao.....b
		KZEF	Southern Trader.....b
		KZEH	Yusingco.....b
		KZES	Negros.....b
		KZEP	Compania de Filipinas.....b

COMMERCIAL AND GOVERNMENT LANE, SHIP, AIRCRAFT, RADIOBEACON, AND RADIO-COMPASS STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call	Station	Call	Station
KZES	F. Escano.....b	NAKK	N-3.....b
KZEV	Islas Visayas.....b	NAKL	Stockton.....b
KZFD	Limarao, P. I.....fc	NAKN	Drayton.....b
KZFF	Camiguin Island, P. I.....b	NAKP	Dubuque.....b
KZFM	Manila, P. I.....fx	NAKS	Elcano.....b
KZFN	Sipaco, P. I.....fx	NAKX	Kilty.....b
KZFT	Naga-Naga, P. I.....fx	NAL	Washington, D. C. (navy yard).....fx
KZIU	Sagaporaok.....b	NALC	Lapwing.....b
KZJ	Seattle, Wash. (Boeing Field).....fa, fx	NALK	Lykens.....b
KZMD	Ntra. Sra. de la Paz.....b	NALM	Boreas.....b
KZN	Waterfall, Alaska radio.....fc, fx	NALP	Kingfisher.....b
KZOA	Elwyn C. Hale.....b	NALR	Taylor.....b
KZPC	Churruca.....b	NALT	Ringgold.....b
KZS	Boea de Quadra, Alaska.....fx	NALZ	Stoddert.....b
KZU	Uzinki, Alaska.....fc, fx	NAM	Norfolk, Va., radio.....fc
KZV	Nushagak, Alaska.....fc, fx	NAMB	Florida.....b
NAA	Washington, D. C. (Arlington, Va.).....fx	NAMM	Nokomis.....b
NAB	Cape Elizabeth, Me.....rg	NAMR	O-3.....b
NABB	T-2.....b	NAMS	Nantucket.....b
NABC	Niagara.....b	NAMT	Boggs.....b
NABD	Indianapolis.....b	NAMV	Alton.....b
NABS	Tanager.....b	NAMX	O-4.....b
NABX	Annapolis.....b	NAN	Cape Lookout, N. C.....rg
NABZ	T-3.....b	NANB	O-6.....b
NAC	Portsmouth, N. H.....fc	NANC	O-7.....b
NACL	Hale.....b	NAND	O-8.....b
NACN	Dyer.....b	NANF	Galveston.....b
NACP	Stringham.....b	NANQ	Robin.....b
NACQ	McKee.....b	NANT	Olympia.....b
NACR	Rathburne.....b	NANX	Sagamore.....b
NACS	Owl.....b	NANZ	Farquhar.....b
NACT	Arkansas.....b	NAO	Charleston, S. C., radio.....fc
NACV	Arizona.....b	NAP	St. Augustine, Fla., radio.....fc
NACZ	Allegheny.....b	NAPG	Seattle.....b
NAD	Boston, Mass.....fc	NAPK	Stevens.....b
NADF	Crowninshield.....b	NAPL	Talbot.....b
NADK	Nevada.....b	NAPM	Converse.....b
NADL	Kimberly.....b	NAPN	Teal.....b
NADN	Oklahoma.....b	NAPR	Camden.....b
NADP	Avocet.....b	NAPZ	Howk.....b
NADT	New York.....b	NAPT	Goldsbrough.....b
NADV	Texas.....b	NAPV	Bridgeport.....b
NADX	Pennsylvania.....b	NAQ	Jupiter, Fla.....fc, rg
NADZ	Bailey.....b	NAQC	Piscataqua.....b
NAE	North Truro, Mass.....rg	NAQD	Yukon.....b
NAF	Newport, R. I.....fc	NAQF	Widgeon.....b
NAFC	Dickerson.....b	NAQJ	Rail.....b
NAFD	Baltimore.....b	NAQL	Savannah.....b
NAFF	Brant.....b	NAQM	Porpoise.....b
NAFL	Leary.....b	NAQV	Hannibal.....b
NAFQ	Dreadnaught.....b	NARC	Key West, Fla., radio.....fc
NAFR	Arctic.....b	NARF	Maryland.....b
NAFS	Burns.....b	NARG	Wardank.....b
NAFT	California.....b	NARJ	Chemung.....b
NAFY	Chester.....b	NARR	Aramis.....b
NAFX	R-17.....b	NARZ	William Junes.....b
NAFZ	Semmes.....b	NAS	R-20.....b
NAGB	O-9.....b	NASC	Pensacola, Fla.....fa, fx, rg, ab
NAGC	Satterlee.....b	NASG	Helena.....b
NAGD	Choyenne.....b	NASJ	Isabel.....b
NAGG	Mason.....b	NASQ	Gold Star.....b
NAGL	Chandler.....b	NASV	Regulus.....b
NAGM	Chicago.....b	NASX	R-15.....b
NAGS	Ward.....b	NAT	R-16.....b
NAGX	Gwin.....b	NATB	New Orleans, La.....fc
NAH	New York, N. Y.....fc	NATJ	Antares.....b
NAI	Philadelphia.....fc	NATG	Bell.....b
NAJ	Great Lakes, Ill.....b	NATM	Wickes.....b
NAJB	Sigourney.....b	NATS	Mendota.....b
NAJD	Black Hawk.....b	NATT	Umpqua.....b
NAJJ	N-2.....b	NAU	Waters.....b
NAJK	Southard.....b	NAV	San Juan, P. R., radio (Cayey).....fc
NAJL	Collough.....b	NAVJ	Parris Island, S. C., radio.....fc
NAJP	Finch.....b	NAVD	Willmette.....b
NAJQ	Bancroft.....b	NAVM	Explorer.....b
NAJR	Gregory.....b	NAVS	Stribling.....b
NAJT	Lydonia.....b	NAVX	Idaho.....b
NAJV	Denver.....b	NAW	Guantanamo Bay, Cuba.....fc, fx
NAJX	Robinson.....b	NAX	Colon, Canal Zone, radio.....b
NAJZ	Welles.....b	NAXJ	Montgomery.....b
NAK	Annapolis, Md. (Naval Academy).....fc	NAXK	Murray.....b

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

Call	Station	Call	Station
NAXM	Vega.....b	NDV	Los Angeles, Calif. (eleventh district U. S. N. R.).....fx
NAXN	Kewaydin.....b	NDW	Cape Hatteras, R/C group, master station, Cape Hatteras, N. C.....rg
NAXT	O-10.....b	NDX	Poyners Hill, N. C.....rg
NAY	Brownsville, Tex.....fc	NDY	Dahlgren, Va.....fx
NAZ	Managua, Nicaragua.....fx	NDZ	Oklahoma City, Okla. (eighth district U. S. N. R.).....fx
NAZC	Thompson.....b	NEB	David National Airport, David, Panama.....fa, fx
NAZK	Capella.....b	NEBJ	Meade.....b
NAZL	Lamberton.....b	NEBV	H-9.....b
NAZM	Kennedy.....b	NECD	Navigator.....b
NAZP	Bagaduce.....b	NECR	Colorado.....b
NAZQ	Tadousac.....b	NECS	Guam.....b
NAZS	Kahnia.....b	NECT	Penguin.....b
NAZZ	Robert L. Barnes.....b	NECV	Palmer.....b
NBA	Balboa, Canal Zone, radio (Darien).....fc, fx	NECX	Kittery.....b
NBB	St. Thomas, Virgin Islands.....fc, fx	NECZ	Sotoyomo.....b
NBC	Coco Solo, Canal Zone.....fc	NEDB	Panay.....b
NBD	Bar Harbor, Me., radio.....fc	NEDD	Fulton.....b
NBE	Thatcher Island, Mass.....rg	NEDF	Oceanographer.....b
NBF	Fourth Cliff, Mass.....rg	NEDG	Philip.....b
NBG	Destruction Island, Wash.....rg	NEDJ	West Virginia.....b
NBK	Newport, R. I. (torpedo station).....fx	NEDK	Jarvis.....b
NBL	New London, Conn.....b	NEDL	Jenkins.....b
NBM	Amagansett, N. Y.....rg	NEDN	Aylwin.....b
NBN	Bethany Beach, Del.....rg	NEDP	Balch.....b
NBO	St. John, Virgin Islands.....fx	NEEQ	Benham.....b
NBR	St. Croix, Virgin Islands.....rg	NEES	N-1.....b
NBS	Surfside, Mass. (Nantucket Island).....rg	NEDV	Cushing.....b
NBX	South Pass, La.....rg	NEEZ	Crane ship No. 1.....b
NCA	Point Heuneme, Calif.....rg	NEFB	Duncan.....b
NCD	San Diego, Calif. (Naval headquarters).....fc, fx	NEFC	II-6.....b
NCH	Puget Sound, Wash. (Bremerton).....fc	NEFF	L-11.....b
NCM	Tau, Samoa.....fx	NEFK	Polican.....b
NCQ	San Juan, P. R. (control).....fc, fx	NEFL	Swallow.....b
NCU	Const Guard unit (general call for any or all).....fx	NEFN	Onlu.....b
NCW	La Palma, Panama.....fx	NEFR	Nicholson.....b
NCZ	Chesapeake Bay, R/C group, master station, Virginia Beach.....rg	NEFS	Bushnell.....b
NDA	Medford, Mass. (first district U. S. N. R.).....fx	NEFT	Unadilla.....b
NDB	New York, N. Y. (third district U. S. N. R.).....fx	NEFV	O'Brien.....b
NDC	Wilmington, Del. (fourth district U. S. N. R.).....fx	NEFX	Northampton.....b
NDD	Pensacola, Fla. (eighth district U. S. N. R.).....fx	NEFZ	Parker.....b
NDE	Baltimore, Md. (fifth district U. S. N. R.).....fx	NEGC	R-18.....b
NDF	So. Manchester, Conn. (third district U. S. N. R.).....fx	NEGD	Luca.....b
NDG	Balboa, Canal Zone (fifteenth district U. S. N. R.).....fx	NEGF	Dent.....b
NDH	San Francisco, Calif. (twelfth district U. S. N. R.).....fx	NEGJ	Luzon.....b
NDJ	Atlanta, Ga. (sixth district U. S. N. R.).....fx	NEGK	R-19.....b
NDK	Portsmouth, Va. (fifth district U. S. N. R.).....fx	NEGAI	Winslow.....b
NDL	Orlando, Fla. (seventh district U. S. N. R.).....fx	NEGN	Allen.....b
NDM	Camden, N. J. (fourth district U. S. N. R.).....fx	NEGQ	Wando.....b
NDN	Washington, D. C. (Wash. district U. S. N. R.).....fx	NEGS	L-9.....b
NDO	Onkland, Calif. (twelfth district U. S. N. R.).....fx	NEGTH	Rappahannock.....b
NDP	Kansas City, Mo. (ninth district U. S. N. R.).....fx	NEGXX	Mayrant.....b
NDQ	Seattle, Wash. (thirteenth district U. S. N. R.).....fx	NEJJ	Eagle 6.....b
NDR	Augusta, Me. (first district U. S. N. R.).....fx	NEJK	Eagle 7.....b
NDS	Winnetka, Ill. (ninth district U. S. N. R.).....fx	NEJL	Eagle 8.....b
NDT	San Diego, Calif. (eleventh district U. S. N. R.).....fx	NEJN	Eagle 10.....b
NDU	Jacksonville, Fla. (seventh district U. S. N. R.).....fx	NEJP	Eagle 11.....b
		NEJQ	Eagle 12.....b
		NEJS	Eagle 14.....b
		NEJT	Eagle 15.....b
		NEJX	Melville.....b
		NEKB	Eagle 19.....b
		NEKC	Tutuila.....b
		NEKD	Genesee.....b
		NEKF	Eagle 22.....b
		NEKK	L-3.....b
		NEKL	Narragansett.....b
		NEKM	Mercy.....b
		NEKN	Falcon.....b
		NEKQ	Champlin.....b
		NEKR	Missoula.....b
		NEKS	Challenge.....b
		NEKT	Mississippi.....b
		NEKX	Rowan.....b
		NEL	Lakehurst, N. J.....fc, fx, rg, ab
		NELB	Saratoga.....b
		NELC	Sampson.....b

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

Call	Station	Call	Station
NELD	K-2.....b	NERL	Lansdale.....b
NELF	K-3.....b	NERN	Orion.....b
NELG	Dorsey.....b	NERP	Cuyama.....b
NELJ	Schley.....b	NERQ	Turner.....b
NELK	Pyro.....b	NERR	Gillis.....b
NELL	Nitro.....b	NERs	Upshur.....b
NELM	K-4.....b	NERt	Greer.....b
NELN	H-8.....b	NERV	Elliott.....b
NELP	K-5.....b	NERX	Roper.....b
NELQ	K-6.....b	NERZ	Breckenridge.....b
NELR	Contocook.....b	NEsB	Penobscot.....b
NELs	K-7.....b	NEsC	Paducah.....b
NELT	K-8.....b	NEsD	Henderson.....b
NELV	Asheville.....b	NEsF	Bridge.....b
NELX	Aaron Ward.....b	NEsJ	II-7.....b
NELZ	L-2.....b	NEsL	Patapasco.....b
NEMC	Medusa.....b	NESM	Breese.....b
NEMD	Sara Thompson.....b	NEsN	Inca.....b
NEMG	Schenck.....b	NEsR	Fathomer.....b
NEMJ	Herbert.....b	NEsS	Bernadou.....b
NEMK	Wadsworth.....b	NEsT	Cole.....b
NEML	Branch.....b	NEsV	Thatcher.....b
NEMM	Penacock.....b	NEsX	Walker.....b
NEMP	Ammunition lighter 8.....b	NEsZ	Crosby.....b
NEMR	Navajo.....b	NETB	McFarland.....b
NEMs	Evans.....b	NETC	Pittsburgh.....b
NEMT	McKean.....b	NETD	Mahopac.....b
NEMV	Harding.....b	NETF	Lea.....b
NEMX	Gridley.....b	NETG	H-5.....b
NEMZ	Chew.....b	NETJ	O-2.....b
NENC	Pathfinder.....b	NETL	O-12.....b
NEND	Bache.....b	NETM	Perkins.....b
NENG	Israel.....b	NETN	Monocacy.....b
NENJ	Herdon.....b	NETP	Prometheus.....b
NENK	Vestal.....b	NETQ	Tatnuck.....b
ENL	Heron.....b	NETR	Palos.....b
NENM	Dallas.....b	NETS	Meredith.....b
NENQ	Newport.....b	NETT	Bush.....b
NENR	Azoostock.....b	NETV	Cowell.....b
NENs	Hazelwood.....b	NETX	Maddox.....b
NENT	Williams.....b	NETZ	Koka.....b
NENV	Hart.....b	NEV	Savannah, Ga., radio.....fc
NENX	Ingraham.....b	NEVB	Sunnadin.....b
NENZ	Ludlow.....b	NEVC	Napa.....b
NEPB	Hovey.....b	NEVF	Pampanga.....b
NEPC	Mindanao.....b	NEVG	Surveyor.....b
NEPD	Long.....b	NEVJ	Sacramento.....b
NEPF	Broome.....b	NEVK	Sciota.....b
NEPG	Mauzy.....b	NEVL	Pinola.....b
NEPJ	Orelala.....b	NEVM	Oriole.....b
NEPL	North Dakota.....b	NEVN	New Mexico.....b
NEPM	Neptune.....b	NEVP	Algorma.....b
NEPN	Essex.....b	NEVR	Iuka.....b
NEPP	K-1.....b	NEVs	Anthony.....b
NEPQ	Relief.....b	NEVt	Sproston.....b
NEPR	Old Constellation.....b	NEVv	Rizal.....b
NEPs	Tattnall.....b	NEVX	Mackenzie.....b
NEPT	Badger.....b	NEVZ	Renshaw.....b
NEPV	Twiggs.....b	NEXB	Radford.....b
NEPX	Babbitt.....b	NEXC	Keosauqua.....b
NEPZ	Jacob Jones.....b	NEXF	Eagle 26.....b
NEQB	Jason.....b	NEXG	Eagle 27.....b
NEQC	Langley.....b	NEXJ	O-1.....b
NEQD	Kandwha.....b	NEXR	Mugford.....b
NEQE	Montcalm.....b	NEXs	O' Bannon.....b
NEQK	Mahan.....b	NEXt	Hogan.....b
NEQL	Maunee.....b	NEXV	Stansbury.....b
NEQM	H-4.....b	NEXX	Hopewell.....b
NEQP	Nereus.....b	NEXZ	Haraden.....b
NEQQ	Beaver.....b	NEZB	Briarcliff.....b
NEQs	Buchanan.....b	NEZJ	Eagle 32.....b
NEQT	Tillman.....b	NEZM	Little.....b
NEQX	Kennison.....b	NEZP	Tarbell.....b
NEQZ	Claxton.....b	NEZR	Gamble.....b
NERB	Gilmer.....b	NEZs	Abbott.....b
NERC	Proteus.....b	NEZT	Clemson.....b
NERD	Undaunted.....b	NEZV	Hatfield.....b
NERF	H-3.....b	NEZX	Brooks.....b
NERG	Aulick.....b	NEZZ	Belknap.....b
NERJ	Craven.....b	NFD	Balboa, Canal Zone (control).....fc, fx
NERK	Naval ship stations (any or all).....b	NFH	Smith Island, Wash.....rg

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

Call	Station	Call	Station
NFK	Manasquan, N. J. ....rg	NIGR	J. F. Talbot.....b
NFN	Cattle Point, Wash.....rg	NIGS	Yarnall.....b
NFT	New Dungeness, Wash.....rg	NIGT	Sonoma.....b
NFV	Quantico, Va.....fa, fx	NIGV	Marinduque.....b
NFW	Honolulu, T. H. (Wailupe).....fx	NIJB	Henry County.....b
NGO	Prices Neck, R. I.....rg	NIJC	Fairfax.....b
NGR	Cape Mala, Canal Zone.....fc	NIJF	Turkey.....b
NGX	Ofu, Samoa.....fx	NIJG	Partridge.....b
NIIB	Newport, R. I. (torpedo station).....fx	NIJJ	Bobolink.....b
NHC	Panama City National Airport, Panama City, Republic of Pan- ama.....fa, fx	NIJK	Lark.....b
NHD	Sandy Hook, N. J.....rg	NIJL	Pioneer.....b
NHP	Honolulu, T. H. (Heeia Point).....fx	NIJN	Sagull.....b
NHR	Hampton Roads, Va. (naval opera- ting base).....fc	NIJP	Guide.....b
NIBC	Eagle 39.....b	NIJQ	Swan.....b
NIBD	Eagle 34.....b	NIJR	Whippoorwill.....b
NIBF	Eagle 40.....b	NIJS	Bittern.....b
NIBG	Eagle 35.....b	NIJT	Sanderling.....b
NIBK	Eagle 36.....b	NIJW	Discoverer.....b
NIBN	Eagle 38.....b	NIJX	Gannet.....b
NIBQ	Eagle 44.....b	NIJZ	San Francisco.....b
NIBS	Eagle 46.....b	NIK	San Francisco (naval headquarters).....fc
NIBT	Eagle 47.....b	NIKB	Ballard.....b
NIBV	Eagle 48.....b	NIKC	Ortolan.....b
NICB	Eagle 51.....b	NIKD	Rochester.....b
NICC	Eagle 52.....b	NIKF	Piscon.....b
NICG	Eagle 55.....b	NIKK	Sandpiper.....b
NICJ	Eagle 56.....b	NIKL	Vireo.....b
NICK	Eagle 57.....b	NIKM	Lexington.....b
NICL	Eagle 58.....b	NIKP	Woodcock.....b
NICM	Eagle 59.....b	NIKQ	Quail.....b
NICN	Eagle 60.....b	NIKR	Eider.....b
NICQ	V-1.....b	NIKS	Thrush.....b
NICR	V-2.....b	NIKT	Tern.....b
NICS	V-3.....b	NIKV	Cormorant.....b
NICT	V-4.....b	NIKX	Grebe.....b
NICV	V-5.....b	NILB	T-1.....b
NICX	V-6.....b	NILD	R-1.....b
NICZ	V-7.....b	NILF	R-2.....b
NIDD	V-8.....b	NILG	R-3.....b
NIDF	Augusta.....b	NILH	R-4.....b
NIDJ	V-9.....b	NILJ	R-5.....b
NIDK	International ice patrol.....b	NILK	R-6.....b
NIDN	Tennessee.....b	NILL	R-7.....b
NIDP	Manley.....b	NILM	R-8.....b
NIDQ	Caldwell.....b	NILN	R-9.....b
NIDR	Connor.....b	NILP	R-10.....b
NIDS	Arapaho.....b	NILQ	R-11.....b
NIDT	Solace.....b	NILR	R-12.....b
NIDX	Ontario.....b	NILS	R-13.....b
NIDZ	Sterrett.....b	NILT	R-14.....b
NIFB	Crane.....b	NITMG	S-1.....b
NIFC	Ransay.....b	NITMJ	S-2.....b
NIFD	Ellis.....b	NITMK	S-3.....b
NIFF	H-2.....b	NITML	S-4.....b
NIFJ	Percival.....b	NITMN	S-5.....b
NIFK	Brazos.....b	NITMP	S-6.....b
NIFL	Hamilton.....b	NITMQ	S-7.....b
NIFM	Howard.....b	NITMR	S-8.....b
NIFN	Thomas.....b	NITMS	S-9.....b
NIFP	Neches.....b	NITMT	S-10.....b
NIFQ	Pecos.....b	NITMV	S-11.....b
NIFR	Torpedo test barge No. 1.....b	NITMX	S-12.....b
NIFS	Torpedo test barge No. 2.....b	NITMZ	S-13.....b
NIFT	Louisville.....b	NINP	S-14.....b
NIFX	Torpedo test barge No. 3.....b	NINQ	S-15.....b
NIFZ	Torpedo test barge No. 4.....b	NINC	S-16.....b
NIGB	McCook.....b	NIND	S-17.....b
NIGC	McCalla.....b	NINF	S-18.....b
NIGD	Kalk.....b	NINJ	S-19.....b
NIGF	Osmund Ingram.....b	NINK	S-20.....b
NIGG	McDermut.....b	NINL	S-21.....b
NIGJ	Laub.....b	NINM	S-22.....b
NIGK	McLanahan.....b	NINN	S-23.....b
NIGL	Edwards.....b	NINP	S-24.....b
NIGM	Greene.....b	NINQ	S-25.....b
NIGN	Ballard.....b	NINS	S-26.....b
NIGP	Swasey.....b	NINT	S-27.....b
NIGQ	John Francis Burnes.....b	NINX	S-28.....b
			S-29.....b
			S-30.....b
			S-31.....b

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

Call	Station	Call	Station
NINZ	S-32.....b	NKF	Bellevue, D. C.....fx
NIPB	S-33.....b	NLB	Cavite, P. I. (Los Banos).....fx
NIPC	S-34.....b	NLG	Point Reyes, Calif.....rg
NIPD	S-35.....b	NLH	Point Montara, Calif.....rg
NIPF	S-36.....b	NOCB	Tillamook.....b
NIPG	S-37.....b	NODF	S. C. 57.....b
NIPJ	S-38.....b	NODN	S. C. 63.....b
NIPK	S-39.....b	NODP	S. C. 64.....b
NIPL	S-40.....b	NOGL	S. C. 102.....b
NIPM	S-41.....b	NOGM	S. C. 103.....b
NIPN	S-42.....b	NOKN	S. C. 143.....b
NIPP	S-43.....b	NOMD	S. C. 185.....b
NIPQ	S-44.....b	NOMN	S. C. 192.....b
NIPR	S-45.....b	NOFF	S. C. 223.....b
NIPS	S-46.....b	NOFG	S. C. 224.....b
NIPT	S-47.....b	NOFN	S. C. 229.....b
NIPV	S-48.....b	NOFQ	S. C. 231.....b
NIPX	S-49.....b	NOFR	S. C. 431.....b
NIPZ	S-50.....b	NOFZ	S. C. 433.....b
NIQB	Pawtucket.....b	NOFQ	S. C. 437.....h
NIQF	Houston.....b	NOKS	S. C. 271.....b
NIQJ	Utah.....b	NOTR	S. C. 306.....b
NIQL	S. C. 432.....b	NOVL	S. C. 326.....b
NIQM	Boxer.....b	NOVN	S. C. 328.....b
NIQN	Wompatuck.....b	NOVQ	S. C. 330.....b
NIQP	Villalobos.....b	NOXS	S. C. 353.....b
NIQR	Farragut.....b	NOZJ	S. C. 412.....b
NIQS	Bagley.....b	NFA	Cardovn, Alaska, radio.....fc
NIQT	Barney.....b	NFB	Sitka, Alaska, radio.....fc
NIQV	S. C. 440.....b	NFC	Puget Sound, Wash. (Keyport).....fc
NIQX	Biddle.....b	NFD	Tatoosh, Wash.....rg
NIQZ	Blakeley.....b	NFE	Astoria, Oreg., radio.....fc
NIRD	Dahlgren.....b	NPF	Empire, Oreg.....rg
NIRF	Dupont.....b	NG	San Francisco, Calif. (Mare Island).....fc,fx
NIRG	Warrington.....b	NPH	Hilo, Hawaii.....fc
NIRJ	Footc.....b	NPI	Farallone Islands, Calif.....rg
NIRL	Whitney.....b	NPK	Point Arguella, Calif.....rg
NIRM	Holland.....b	NPL	San Diego, Calif. (Chollas Heights).....fc,fx
NIRN	Wright.....b	NPM	Honolulu, Hawaii (Pearl Harbor).....fx
NIRP	Whceling.....b	NPN	Guam, Marianas Island, radio.....fc,fx
NIRQ	Fox.....b	NPO	Cavite, P. I.....fx
NIRR	Marblehead.....b	NPP	Peiping, China.....fx
NIRS	Wilmington.....b	NPQ	St. Paul, Alaska, radio.....rg,fc
NIRT	Raleigh.....b	NPR	Dutch Harbor, Alaska, radio.....fc
NIRV	Concord.....b	NPS	Kodiak, Alaska, radio.....fc
NIRX	Canopus.....b	NPT	Olongapo, P. I.....fc
NIRZ	Denebola.....b	NPU	Tutuila, Samoa, radio.....fc
NISG	Tingey.....b	NPV	Eureka, Calif., radio.....rg,fc
NISJ	Pensacola.....b	NPX	Point Fermin, Calif.....rg
NISK	Salt Lake City.....b	NPY	Pearl Harbor, Hawaii (submarine base).....fx
NISL	Omaha.....b	NPZ	Imperial Beach, Calif.....rg
NISM	Milwaukeo.....b	NOB	Toro Point, Canal Zone.....rg
NISN	Cincinnati.....b	NOC	Bar Harbor, Me.....rg
NISP	Detroit.....b	NOO	Naval land stations (any or all).....fc,fx
NISQ	Richmond.....b	NRCA	Algonquin.....(C. G.) b
NISR	Trenton.....b	NRCF	Redwing.....(C. G.) b
NISS	Memphis.....b	NRCG	Gresham.....(C. G.) b
NIST	Tulsa.....b	NRCH	Alexander Hamilton.....(C. G.) b
NISV	Chaumont.....b	NRCM	Manning.....(C. G.) b
NISX	Argonne.....b	NRCO	Ossipec.....(C. G.) b
NISZ	Bayspring.....b	NRCS	Tuscarora.....(C. G.) b
NITQ	Walke.....b	NRCV	Seneca.....(C. G.) b
NITR	Wyoming.....b	NRCW	Unalga.....(C. G.) b
NITS	Morris.....b	NRCY	Tallapoosa.....(C. G.) b
NITZ	Rodgers.....b	NRDA	Seminole.....(C. G.) b
NIVM	Wildcat.....b	NRDC	Yamacraw.....(C. W.) b
NIXD	Shubrick.....b	NRDD	Cassin.....(C. G.) b
NIZM	Elsie.....b	NRDF	Conyngham.....(C. G.) b
NIZN	Helianthus.....b	NRDG	Davis.....b
NIZP	Marindin.....b	NRDH	Cummins.....b
NIZQ	Mikawa.....b	NRDI	Downes.....b
NIZR	Mitchell.....b	NRDM	Eriesson.....b
NIZS	Ogden.....b	NRDP	McDougal.....b
NIZT	Rodgers.....b	NRDS	Porter.....b
NIZV	Scandinavia.....b	NRDU	Shaw.....b
NIZX	Somers.....b	NRDV	Tucker.....b
NIZZ	Thornton.....b	NRDW	Wilkes.....b
NJY	New York Bay R/C group, master station, Fire Island, N. Y.....rg		Wainwright.....b
NKB	Galveston, Tex.....rg		
NKC	Cape May, N. J.....rg		

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

Call	Station	Call	Station
NRFA	Acushnet.....b	NRJM	C. G. 157.....b
NRFC	Cabokia.....b	NRJO	C. G. 158.....b
NRFD	Apache.....b	NRJP	C. G. 159.....h
NRFF	Carrabasset.....b	NRJQ	C. G. 160.....b
NRFG	Comanche.....b	NRJR	C. G. 161.....b
NRFK	Kickapoo.....b	NRJS	C. G. 162.....b
NRFL	Manhattan.....b	NRJU	C. G. 163.....b
NRFM	Mascoutin.....b	NRJV	C. G. 164.....b
NRFP	Pamlico.....b	NRJW	C. G. 165.....b
NRFQ	Pequot.....b	NRJX	C. G. 166.....b
NRFS	Shawnee.....b	NRJY	C. G. 167.....b
NRFU	Snohomish.....b	NRJZ	C. G. 168.....b
NRFV	Tamaroa.....b	NRK	Puerto Obaldia, Panama, radio.....fc
NRFW	Saukee.....b	NRKA	Arcata.....b
NRGA	Ammen.....b	NRKB	Cygan.....b
NRGB	Burrows.....b	NRKC	Cook.....b
NRGC	Beale.....b	NRKD	AB-9.....b
NRGF	Fanning.....b	NRKF	Florence.....b
NRGH	Henley.....b	NRKG	Osprey.....b
NRGJ	Jouett.....b	NRKH	Hudson.....b
NRGL	McCall.....b	NRKJ	Raritan.....b
NRGM	Monaghan.....b	NRKK	Tingard.....b
NRGP	Patterson.....b	NRKL	Virginia I.....b
NRGQ	Paulding.....b	NRKM	Wissniekon.....b
NRGR	Roe.....b	NRKO	Patrol.....b
NRGU	Terry.....b	NRKP	Calumet.....b
NRGV	Trippe.....b	NRKQ	Mackinac.....b
NRHA	C. G. 100.....b	NRKS	Smith.....b
NRHB	C. G. 101.....b	NRLA	Active.....b
NRHC	C. G. 102.....b	NRLB	Agassiz.....b
NRHD	C. G. 103.....b	NRLC	Antietam.....b
NRHF	C. G. 104.....b	NRLD	Bautwell.....b
NRHG	C. G. 105.....b	NRLF	Cartigan.....b
NRHH	C. G. 106.....b	NRLG	Cahoone.....b
NRHJ	C. G. 107.....b	NRLJ	Crawford.....b
NRHK	C. G. 108.....b	NRLK	Cuyahoga.....b
NRHL	C. G. 109.....b	NRLM	Diligence.....b
NRHM	C. G. 110.....b	NRLP	Dix.....b
NRHO	C. G. 111.....b	NRLQ	Faunce.....b
NRHP	C. G. 112.....b	NRLR	Frederick Lee.....b
NRHQ	C. G. 115.....b	NRLS	General Greene.....b
NRHR	C. G. 116.....b	NRLU	Harriet Lane.....b
NRHS	C. G. 117.....b	NRLV	Jackson.....b
NRHU	C. G. 118.....b	NRLW	Kimball.....b
NRHV	C. G. 119.....b	NRLX	Legare.....b
NRHW	C. G. 120.....b	NRLY	Marion.....b
NRHX	C. G. 121.....b	NRLZ	Nemaha.....b
NRHY	C. G. 122.....b	NRMA	Cape Hinchinbrook, Alaska.....rg
NRHZ	C. G. 123.....b	NRMB	Pulaski.....b
NRIA	C. G. 124.....b	NRMC	Reliance.....b
NRIB	C. G. 125.....b	NRMD	Rush.....b
NRIC	C. G. 127.....b	NRMF	Tiger.....b
NRID	C. G. 128.....b	NRMG	Travis.....b
NRIF	C. G. 129.....b	NRMJ	Vigilant.....b
NRIG	C. G. 130.....b	NRMP	Woodbury.....b
NRIH	C. G. 131.....b	NROA	Yeaton.....b
NRIJ	C. G. 132.....b	NROB	C. G. 169.....b
NRIK	C. G. 133.....b	NROC	C. G. 170.....b
NRIL	C. G. 134.....b	NROD	C. G. 171.....b
NRIM	C. G. 135.....b	NROF	C. G. 172.....b
NRIO	C. G. 136.....b	NROG	C. G. 173.....b
NRIP	C. G. 137.....b	NROH	C. G. 174.....b
NRIQ	C. G. 138.....b	NROJ	C. G. 175.....b
NRIR	C. G. 139.....b	NROK	C. G. 176.....b
NRIS	C. G. 140.....b	NROL	C. G. 177.....b
NRIU	C. G. 141.....b	NROM	C. G. 178.....b
NRIV	C. G. 142.....b	NROO	C. G. 179.....b
NRIW	C. G. 143.....b	NROP	C. G. 180.....b
NRIX	C. G. 144.....b	NROQ	C. G. 181.....b
NRIZ	C. G. 145.....b	NROU	C. G. 182.....b
NRJA	C. G. 146.....b	NROV	C. G. 183.....b
NRJB	C. G. 147.....b	NROW	C. G. 184.....b
NRJC	C. G. 148.....b	NROX	C. G. 185.....b
NRJD	C. G. 149.....b	NROY	C. G. 186.....b
NRJE	C. G. 150.....b	NROZ	C. G. 187.....b
NRJG	C. G. 151.....b	NRPA	C. G. 189.....b
NRJH	C. G. 152.....b	NRPB	Alert.....b
NRJJ	C. G. 153.....b	NRPC	Bonham.....b
NRJK	C. G. 154.....b	NRPD	Ewing.....b
NRJL	C. G. 155.....b	NRPF	McLane.....b
			Morris.....b

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

Call	Station	Call	Station
NRPG	Montgomery.....b	NRXI	C. G. 242.....b
NRQA	C. G. 239.....b	NRXK	C. G. 243.....b
NRQB	C. G. 248.....b	NRXL	C. G. 244.....b
NRQC	C. G. 249.....b	NRXM	C. G. 246.....b
NRQD	C. G. 297.....b	NRXO	C. G. 247.....b
NRAA	C. G. 190.....b	NRXP	C. G. 250.....b
NRRB	C. G. 191.....b	NRXQ	C. G. 251.....b
NRRC	C. G. 192.....b	NRXS	C. G. 252.....b
NRRD	C. G. 193.....b	NRXU	C. G. 253.....b
NRRF	C. G. 191.....b	NRXV	C. G. 254.....b
NRRG	C. G. 195.....b	NRXW	C. G. 255.....b
NRRH	C. G. 196.....b	NRXX	C. G. 256.....b
NRRJ	C. G. 197.....b	NRXY	C. G. 257.....b
NRRK	C. G. 198.....b	NRXZ	C. G. 258.....b
NRRL	C. G. 199.....b	NRYA	C. G. 259.....b
NRRM	C. G. 200.....b	NRYP	C. G. 260.....b
NRRP	C. G. 201.....b	NRYS	C. G. 261.....b
NRRQ	C. G. 202.....b	NRYT	C. G. 262.....b
NRRS	C. G. 203.....b	NRYP	C. G. 263.....b
NRRU	C. G. 204.....b	NRYP	C. G. 264.....b
NRRV	C. G. 205.....b	NRYP	C. G. 265.....b
NRRW	C. G. 206.....b	NRYP	C. G. 266.....b
NRRX	C. G. 207.....b	NRYP	C. G. 267.....b
NRRY	C. G. 208.....b	NRYP	C. G. 268.....b
NRRZ	C. G. 209.....b	NRYP	C. G. 269.....b
NRUA	C. G. 210.....b	NRYP	C. G. 270.....b
NRUB	Champlain.....b	NRYP	C. G. 271.....b
NRUD	Chelan.....b	NRYP	C. G. 272.....b
NRUF	Tahoe.....b	NRYP	C. G. 273.....b
NRUG	Mendota.....b	NRYP	C. G. 274.....b
NRUH	Tampa.....b	NRYP	C. G. 275.....b
NRUI	Haida.....b	NRYP	C. G. 276.....b
NRUK	Itasca.....b	NRYP	C. G. 277.....b
NRUL	Saranac.....b	NRYP	C. G. 278.....b
NRUM	Northland.....b	NRYP	C. G. 279.....b
NRUP	Mojave.....b	NRZA	C. G. 280.....b
NRUQ	Pontchartrain.....b	NRZB	C. G. 281.....b
NRUS	Modoc.....b	NRZC	C. G. 282.....b
NRUV	Sebago.....b	NRZD	C. G. 283.....b
NRVA	Shoshone.....b	NRZF	C. G. 284.....b
NRVB	C. G. 211.....b	NRZG	C. G. 285.....b
NRVC	C. G. 212.....b	NRZH	C. G. 286.....b
NRVD	C. G. 213.....b	NRZJ	C. G. 287.....b
NRVE	C. G. 214.....b	NRZK	C. G. 288.....b
NRVF	C. G. 215.....b	NRZL	C. G. 289.....b
NRVG	C. G. 216.....b	NRZM	C. G. 290.....b
NRVJ	C. G. 218.....b	NRZO	C. G. 291.....b
NRVK	C. G. 219.....b	NRZP	C. G. 292.....b
NRVL	C. G. 220.....b	NRZQ	C. G. 293.....b
NRVM	C. G. 221.....b	NRZS	C. G. 294.....b
NRVO	C. G. 220.....b	NRZT	C. G. 295.....b
NRVP	C. G. 223.....b	NRZU	C. G. 296.....b
NRVQ	C. G. 224.....b	NRZV	C. G. 298.....b
NRVS	C. G. 225.....b	NRZV	C. G. 299.....b
NRVU	C. G. 226.....b	NRZX	C. G. 300.....b
NRVV	C. G. 227.....b	NRZY	C. G. 301.....b
NRVW	C. G. 228.....b	NRZZ	C. G. 302.....b
NRVX	C. G. 229.....b	NSC	Port au Prince, Haiti, radio.....fc
NRVY	C. G. 231.....b	NSD	Delaware Bay R/C group, master station, Cape Hemlopen, Del.....rg
NRVZ	C. G. 232.....b	NSF	Anacostia, D. C.....fa
NRWA	Corwin.....b	NSS	Washington, D. C. (Annapolis, Md.)..fx
NRWB	Dallas.....b	NTB	Long Beach, Calif. (Naval Reserve air base).....fa
NRWC	Engle.....b	NUDG	Ranger.....b
NRWD	Dexter.....b	NUFB	Mohawk.....b
NRWF	Forward.....b	NUFN	Barnett.....b
NRWG	Gallatin.....b	NUFZ	Clarinda.....b
NRWJ	Mahoning.....b	NUG	Eagle Harbor, Mich.....rg
NRWK	Nansamond.....b	NUGG	Natoma.....b
NRWL	Naugatuck.....b	NUGK	Kaweah.....b
NRWP	Patriot.....b	NUGL	Larimie.....b
NRWQ	Perry.....b	NUGM	Mattole.....b
NRWS	Petrel.....b	NUGN	Patoka.....b
NRWU	Wolcott.....b	NUGP	Ramapo.....b
NRXA	C. G. 233.....b	NUGQ	Rapidan.....b
NRXB	C. G. 234.....b	NUGR	Salinas.....b
NRXC	C. G. 235.....b	NUGS	Sapelo.....b
NRXD	C. G. 236.....b	NUGT	Sepulga.....b
NRXF	C. G. 237.....b	NUGV	Tippecanoe.....b
NRXG	C. G. 240.....b		
NRXH	C. G. 241.....b		

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

Call	Station	Call	Station
NUGX	Trinity.....b	NUQL	Bainbridge.....b
NUJD	Abel P. Upshur.....b	NUQM	Hopkins.....b
NUJF	Hunt.....b	NUQN	Paul Jones.....b
NUJG	George E. Badger.....b	NUQP	Barry.....b
NUJJ	Smith Thompson.....b	NUQQ	Lawrence.....b
NUJK	Barker.....b	NUQS	Perry.....b
NUJL	Tracey.....b	NUQT	Hull.....b
NUJM	James K. Paulding.....b	NUQV	Decatur.....b
NUJN	Overton.....b	NUQX	Sumner.....b
NUJP	Sturtevant.....b	NUQZ	Corry.....b
NUJQ	Henshaw.....b	NURC	Melvin.....b
NUJR	Moyer.....b	NURD	Spica.....b
NUJT	La Vallette.....b	NURF	Procyon.....b
NUJV	Shirk.....b	NURG	Rigel.....b
NUJX	Kidder.....b	NURJ	Altair.....b
NUJZ	Selfridge.....b	NURL	President.....b
NUKC	Wasmuth.....b	NURN	Dorothy.....b
NUKD	Hilbert.....b	NUW	Soapstone Point, Alaska.....rg
NUKF	Noa.....b	NUXB	U. S. Customs patrol boat No. 538.....b
NUKX	Humphreys.....b	NUXS	Harbor Trader.....b
NULJ	Welborn C. Wood.....b	NUXZ	U. S. Customs patrol boat No. 522.....b
NULK	Alden.....b	NVMA B	Texas—any aircraft attached to U. S. S.....a
NULL	Borio.....b	NVMA C	Cincinnati—any aircraft attached to U. S. S.....a
NULLM	Kano.....b	NVMA D	Jason—any aircraft attached to U. S. S.....a
NULLN	Childs.....b	NVMA F	Augusta—any aircraft attached to U. S. S.....a
NULLP	King.....b	NVMA G	Chicago—any aircraft attached to U. S. S.....a
NULLQ	Sands.....b	NVMA H	Louisville—any aircraft attached to U. S. S.....a
NULLR	Sinclair.....b	NVMA L	Houston—any aircraft attached to U. S. S.....a
NULLS	McCawley.....b	NVMA M	Chester—any aircraft attached to U. S. S.....a
NULLT	Moody.....b	NVMA N	Northampton—any aircraft attached to U. S. S.....a
NULLV	Sharkey.....b	NVMA P	Salt Lake City—any aircraft attached to U. S. S.....a
NULLX	Toucey.....b	NVMA U	Pensacola—any aircraft attached to U. S. S.....a
NULLZ	Breck.....b	NVMA B C	California—any aircraft attached to U. S. S.....a
NUMC	Yarborough.....b	NVMA B D	Indianapolis—any aircraft attached to U. S. S.....a
NUMD	Sloat.....b	NVMA B F	Oklahoma—any aircraft attached to U. S. S.....a
NUMF	Wood.....b	NVMA C H	Idaho—any aircraft attached to U. S. S.....a
NUMG	Marcus.....b	NVMA D F	Marblehead—any aircraft attached to U. S. S.....a
NUMJ	Mervine.....b	NVMA D J	Maryland—any aircraft attached to U. S. S.....a
NUMK	Chase.....b	NVMA D K	Concord—any aircraft attached to U. S. S.....a
NUML	Mullany.....b	NVMA F A	Colorado—any aircraft attached to U. S. S.....a
NUMM	Litchfield.....b	NVMA F L	Memphis—any aircraft attached to U. S. S.....a
NUMN	Zano.....b	NVMA G A	First naval district—any aircraft attached to.....a
NUMP	Trevor.....b	NVMA G B	Third naval district—any aircraft attached to.....a
NUMQ	William B. Preston.....b	NVMA G C	Fourth naval district—any aircraft attached to.....a
NUNC	Lamson.....b	NVMA G D	Fifth naval district—any aircraft attached to.....a
NUND	Dale.....b	NVMA G F	Sixth naval district—any aircraft attached to.....a
NUNF	Flusser.....b	NVMA G H	Seventh naval district—any aircraft attached to.....a
NUNG	Preble.....b	NVMA G J	Eighth naval district—any aircraft attached to.....a
NUNJ	Preston.....b	NVMA G K	Ninth naval district—any aircraft attached to.....a
NUNK	Reid.....b	NVMA G L	Eleventh naval district—any aircraft attached to.....a
NUNL	Whipple.....b	NVMA G M	Twelfth naval district—any aircraft attached to.....a
NUNM	Worden.....b		
NUNN	Stewart.....b		
NUNR	Dobbin.....b		
NUNS	Williamson.....b		
NUNT	Reuben James.....b		
NUNV	Isherwood.....b		
NUNX	Case.....b		
NUPC	John D. Edwards.....b		
NUPD	Parrott.....b		
NUPF	Lardner.....b		
NUPG	Putnam.....b		
NUPK	Coghlan.....b		
NUPL	Sieard.....b		
NUPM	Edsall.....b		
NUPN	Bulmer.....b		
NUPP	Sirius.....b		
NUPQ	Billingsley.....b		
NYPR	Charles Ausburne.....b		
NUPS	Bruce.....b		
NUPT	MacLeish.....b		
NUPV	Pruitt.....b		
NUPX	Simpson.....b		
NUPZ	McCormick.....b		
NUQB	Pope.....b		
NUQC	Osborne.....b		
NUQD	Peary.....b		
NUQE	Goff.....b		
NUQF	Pillsbury.....b		
NUQG	John D. Ford.....b		
NUQJ	Truxton.....b		
NUQK			

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

Call	Station	Call	Station
NVMGN	Fifteenth naval district—any aircraft attached to.....a	WACC	Columbian.....b
NVMGP	Thirteenth naval district—any aircraft attached to.....a	WACD	Dakotan.....b
NVMGQ	Fourteenth naval district—any aircraft attached to.....a	WACE	Nebraskan.....b
NVMGR	Sixteenth naval district—any aircraft attached to.....a	WACF	San Gabriel.....b
NVMGS	Guam naval district—any aircraft attached to.....a	WACG	Hawaiian.....b
NVMGT	Guantanamo naval district—any aircraft attached to.....a	WACH	Iowan.....b
NVMGY	Arizona—any aircraft attached to U. S. S.....a	WACI	Kansan.....b
NVMHB	Patoka—any aircraft attached to U. S. S.....a	WACJ	Kentuckian.....b
NVMHC	Nevada—any aircraft attached to U. S. S.....a	WACK	Mexican.....b
NVMHD	Mississippi—any aircraft attached to U. S. S.....a	WACL	Minnesotan.....b
NVMHL	Arkansas—any aircraft attached to U. S. S.....a	WACM	Missourian.....b
NVMJK	New Mexico—any aircraft attached to U. S. S.....a	WACN	Montanan.....b
NVMKL	New York—any aircraft attached to U. S. S.....a	WACP	Nevadan.....b
NVMKN	Wyoming—any aircraft attached to U. S. S.....a	WACQ	Ohioan.....b
NVMKS	Detroit—any aircraft attached to U. S. S.....a	WACR	Oregonian.....b
NVMLN	Tennessee—any aircraft attached to U. S. S.....a	WACS	Panaman.....b
NVMND	Wright—any aircraft attached to U. S. S.....a	WACT	Pennsylvanian.....b
VMNP	West Virginia—any aircraft attached to U. S. S.....a	WACU	Texan.....b
NVMNS	Richmond—any aircraft attached to U. S. S.....a	WACV	Virginian.....b
NVMOT	Florida—any aircraft attached to U. S. S.....a	WACW	Alaskan.....b
NVMPO	Lexington—any aircraft attached to U. S. S.....a	WACX	Arizonan.....b
NVMQG	Omaha—any aircraft attached to U. S. S.....a	WACY	Georgian.....b
NVMUF	Saratoga—any aircraft attached to U. S. S.....a	WACZ	Dora Weems.....b
NVMVC	Raleigh—any aircraft attached to U. S. S.....a	WADD	New Brunswick, N. J.....fx
NAMVP	Utah—any aircraft attached to U. S. S.....a	WADD	A. M. Byers.....b
NVMVR	Langley—any aircraft attached to U. S. S.....a	WADE	Clemens A. Reiss.....b
NVMWB	Milwaukee—any aircraft attached to U. S. S.....a	WADF	Lynford E. Geer.....b
NVMWM	Medusa—any aircraft attached to U. S. S.....a	WADG	Peter Reiss.....b
NVMXA	Trenton—any aircraft attached to U. S. S.....a	WADH	Richard J. Reiss.....b
NWD	Ponce, P. R.....fc, fx	WADI	William A. Reiss.....b
NWM	Boston Bay R/C group, master station, Deer Island, Mass.....rg	WADJ	William G. Mather.....b
NXA	San Juan, P. R.....fc, fx	WADK	Cabrillo.....b
NYW	Point St. George, Calif.....rg	WADL	Tionesta.....b
NZNJF	J-4 (nonrigid airship).....a	WADM	Junata.....b
NZNJT	J-3 (nonrigid airship).....a	WADO	Octarara.....b
NZO	Annapolis, Md. (laboratory).....fx	WADQ	Huron.....b
NZR	Fort Stevens, Oreg.....rg	WADR	Wyandotte.....b
NZRLA	Los Angeles (rigid airship).....a	WADS	The Harvester.....b
NZRLB	Akron (rigid airship).....a	WADT	Guatemala.....b
NZS	Klipsan Beach, Wash.....rg	WADU	Alpena.....b
NZT	Whitefish Point, Mich.....rg	WADV	Conneaut.....b
NZV	Folly Island, S. C.....rg	WADW	Ruth Alexander.....b
NZW	North Island, S. C.....rg	WADX	Puritan.....b
NZY	Quantico, Va. (marine school).....fx	WADY	W. M. Tupper.....b
WAA	Detour, Mich.....fc, fx	WADZ	Mundixie.....b
WAB	New Brunswick, N. J.....fx	WAE	New Brunswick, N. J.....fx
WABS	General call for all vessels of A. H. Bull S. S. Co.....b	WAF	do.....fx
WAC	New Brunswick, N. J.....fx	WAG	Rockland, Me.....fc
WACA	American.....b	WAH	El Dorado, Kans.....fx
WACB	Californian.....b	WAI	Atlanta, Ga.....fx
		WAJ	Rocky Point, N. Y.....fx
		WAK	Chicago, Ill.....fx
		WAL	New Rochelle, N. Y.....fx
		WAM	Buffalo, N. Y., radio.....fc, fx
		WAN	Ishpeming, Mich.....fc, fx
		WAQ	Newark, N. J.....fx
		WAR	Washington, D. C.....fx
		WAV	Dearborn, Mich.....fx
		WAX	Hialeah, Fla., radio.....fc, fx
		WAZ	New Brunswick, N. J.....fx
		WBA	Harrisburg, Pa.....b
		WBB	Hefron.....b
			Louisiana, Mississippi, and Texas No. 1 (portable).....fx
		WRCC	Huron.....b
		WRCD	Macon.....b
		WRCE	Cambridge.....b
		WRCF	Louisiana.....b
		WRCG	New York.....b
		WRCH	Texas.....b
		WRCI	Freeman.....b
		WRCL	Isaac T. Mann.....b
		WRCK	Oakley L. Alexander.....b
		WRCL	Wilson.....b
		WRCO	Atlantic.....b
		WRCP	Munnystic.....b
		WRCQ	Murdore.....b
		WRCR	Muskogee.....b
		WRCS	Western.....b
		WRCT	Matinicoek.....b
		WRCU	Waban.....b

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

Call	Station	Call	Station
WBCV	Marian Otis Chandler..... b	WCD	Louisiana, Mississippi, and Texas
WBCW	Sea Thrush..... b	WCD No. 13 (portable)..... fx	
WBD	Louisiana, Mississippi, and Texas	WDCB	Restorer..... b
WBDA	No. 2 (portable)..... fx	WDCB	Fabia..... b
WBDB	American Banker..... b	WDCD	Commercial Guide..... b
WBDC	American Farmer..... b	WCDG	Philip D. Block..... b
WBDE	Samuel Mitchell..... b	WCDH	West Arrow..... b
WBDF	West Gotońska..... b	WCDI	Westward Ho..... b
WBDD	D. E. Callender..... b	WCDJ	Maitland No. 1..... b
WBDD	Ashtabula..... b	WCDK	Exhibitor..... b
WBDDH	Manitou..... b	WCDL	San Julian..... b
WBDDI	Sialia..... b	WCDM	Stanley Dollar..... b
WBDDJ	Coronado..... b	WCDN	Lehigh..... b
WBDDM	W. F. White..... b	WCDO	W. W. Bruce..... b
WBDDN	Oregon..... b	WCDP	Lackawanna..... b
WBDDP	Guardian..... b	WCDQ	Maryland..... b
WBDDQ	S. B. Coolidge..... b	WCDR	Bethlehem..... b
WBDDR	Sierra..... b	WCD S	Steelton..... b
WBDS	Ventura..... b	WCDT	Multnomah..... b
WBDDT	Sonoma..... b	WCDU	Celilo..... b
WBDDU	Tillamook..... b	WCDV	Wapama..... b
WBDDV	W. R. Chamberlain, jr..... b	WCDW	Willamette..... b
WBDDW	Santa Cecilia..... b	WCDY	Hyades..... b
WBDDY	Velero II..... b	WCF	New York, N. Y..... fc
WBDDZ	Humboldt..... b	WCH	Louisiana, Mississippi, and Texas
WBE	Louisiana, Mississippi, and Texas	WCI	No. 14 (portable)..... fx
WBF	No. 3 (portable)..... fx	WCII	Tuckerton, N. J..... b
WBG	Boston, Mass., radio..... fc, fx	WCJ	Invincible..... b
WBH	Louisiana, Mississippi, and Texas	WCK	Hazelton, Pa..... fx
WBI	No. 4 (portable)..... fx	WCL	Bele Isle, Mich..... fx
WBK	Louisiana, Mississippi, and Texas	WCM	Columbus, Ohio..... fx
WBL	No. 17 (portable)..... fx	WCO	Chatham, Mass..... fc
WBM	Frackville, Pa..... fx	WCOU	Liberty..... b
WBN	Louisiana, Mississippi, and Texas	WCQ	Lake Kyttlo..... b
WBO	No. 6 (portable)..... fx	WCS	Lansing, Ill..... ab
WBP	Buffalo, N. Y., radio..... fc, fx	WCT	Texas, Louisiana, and New Mexico
WBQ	Detroit, Mich..... fx	WCU	(portable)..... fx
WBR	Louisiana, Mississippi, and Texas	WCV	L'Anse, Mich..... fc, fx
WBS	No. 7 (portable)..... fx	WCY	Third radio zone No. 2 (portable)..... fx
WBU	Dearborn, Mich..... fx		Wyandotte, Mich., radio..... fc
WBV	Key West, Fla..... fx		West Dover, Ohio, radio (Cleveland)..... fc, fx
WBX	Chicago, Ill. (Cicero air mail field)..... fa, fx	WCZ	Texas and Louisiana (portable)..... fx
WBY	Butler, Pa..... fx	WDA	Rocky Point, N. Y..... fx
WCA	Louisiana, Mississippi, and Texas	WDB	do..... fx
WCB	No. 8 (portable)..... fx	WDCA	Pere Marquette 15..... b
WCB	Rocky Point, N. Y..... fx	WDCB	Pere Marquette 19..... b
WCC	Charleroi, Pa..... fx	WDCC	Pere Marquette 17..... b
WCCB	Louisiana, Mississippi, and Texas	WDCE	Pere Marquette 18..... b
WCCD	No. 9 (portable)..... fx	WDCF	Pere Marquette 20..... b
WCCD	St. Thomas, Virgin Islands..... fa, fx	WDCE	Pere Marquette 21..... b
WCCD	Louisiana, Mississippi, and Texas	WDCG	Pere Marquette 22..... b
WCCD	No. 10 (portable)..... fx	WDCH	City of Saginaw 31..... b
WCCD	Louisiana, Mississippi, and Texas	WDCI	City of Flint 32..... b
WCCD	No. 11 (portable)..... fx	WDCK	Ann Arbor No. 7..... b
WCCD	General call for all vessels of Calmar	WDCL	Wabash..... b
WCCD	S. S. Corporation, and Ore S. S.	WDCN	Ann Arbor No. 3..... b
WCCD	Corporation..... b	WDCO	Ann Arbor No. 4..... b
WCCD	Marion, Mass., radio..... fc	WDCE	Ann Arbor No. 5..... b
WCCD	West Celeron..... b	WDCG	Ann Arbor No. 6..... b
WCCD	Amolco..... b	WDCW	Crofton Hall..... b
WCCD	Chincha..... b	WDCY	San Francisco..... b
WCCD	Alamar..... b	WDDB	San Pedro..... b
WCCD	Edwin Christenson..... b	WDDB	T. W. Robinson..... b
WCCD	Cristobal..... b	WDDC	Commercial Trader..... b
WCCD	Ancon..... b	WDD E	Bowdoin..... b
WCCD	Joseph R. Parrott..... b	WDDF	Hatteras..... b
WCCD	Henry M. Flagler..... b	WDDG	Horace X. Baxter..... b
WCCD	Plymouth..... b	WDDL	William C. Atwater..... b
WCCD	President Johnson..... b	WDDM	Tye..... b
WCCD	President Fillmore..... b	WDDN	John McCartney Kennedy..... b
WCCD	Alameda..... b	WDDP	S. B. Way..... b
WCCD	Aleutian..... b	WDDR	Starr..... b
WCCD	Cordova..... b	WDD S	Colonel..... b
WCCD	El Capitan..... b	WDDT	Yosemite..... b
WCCD	Latouche..... b	WDDX	Sea King..... b
WCCD	Ketchikan..... b	WDDY	Cambria..... b
WCCD	Northwestern..... b	WDDZ	John Anderson..... b
WCCD	Redondo..... b	WDEO	Steadfast..... b
WCCD	Victoria..... b	WDI	Detroit, Mich., radio..... fc, fx
WCCD	Yukon..... b	WDIO	San Angelo..... b

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Call	Station	Call	Station
WDM	Menominee, Mich., radio.....fc, fx	WFCR	Commercial Orleanian.....b
WDOI	Maliko.....b	WFCV	Albert Hill.....b
WDOL	General call for all vessels of Dollar S. S. Lines.....b	WFCW	H. C. Folger.....b
WDOO	Federal.....b	WFCX	Herbert L. Pratt.....b
WDS	Rocky Point, N. Y.....fx	WFCY	J. C. Donnell.....b
WDUU	Lake Freeland.....b	WFCZ	J. E. O'Neil.....b
WDX	Wyoming, Pa.....fx	WFDA	Lansing.....b
WEA	Rocky Point, N. Y.....fx	WFDC	American Trader.....b
WEB	do.....fx	WFDD	Rose City.....b
WEC	do.....fx	WFDE	Black Point.....b
WECA	Belfast.....b	WFDE	C. B. Watson.....b
WECB	Boston.....b	WFDE	Dorothy Bradford.....b
WECC	Calvin Austin.....b	WFDE	American Merchant.....b
WECD	Camden.....b	WFDE	La Brea.....b
WECE	Governor Dingley.....b	WFDE	Los Angeles.....b
WECF	New York.....b	WFDE	Oleum.....b
WECG	North Land.....b	WFDE	General Markham.....b
WECJ	George Washington.....b	WFDE	Marquette & Bessemer No. 2.....b
WECK	Hamilton.....b	WFDE	Lebanon.....b
WECL	Jefferson.....b	WFDE	Missouri.....b
WECR	Agwistar.....b	WFDE	Dorchester.....b
WECS	Antilla.....b	WFDE	Winthrop.....b
WECT	Carmaguey.....b	WFDE	Quincy.....b
WECU	Cauto.....b	WFEE	Winding Gulf.....b
WECW	Monterey.....b	WFEI	Constance Chandler.....b
WECX	Orizaba.....b	WFEO	Westport.....b
WECY	Panuco.....b	WFG	Third radio zone No. 1 (portable).....fx
WECZ	Siboney.....b	WFH	Third radio zone No. 2 (portable).....fx
WED	Rocky Point, N. Y.....fx	WFII	Major Wheeler.....b
WEDA	Harvey H. Brown.....x	WFJ	Third radio zone No. 6 (portable).....fx
WEDB	Beta.....b	WFK	Frankfort, Mich., radio.....fc, fx
WEDD	Harry W. Croft.....b	WFL	Chicago, Ill., radio.....fc, fx
WEDF	Fayette Brown.....b	WFM	Third radio zone No. 7 (portable).....fx
WEDG	Graham C. Woodruff.....b	WFN	Third radio zone No. 8 (portable).....fx
WEDL	Artemis.....b	WFO	Dearborn, Mich.....ab
WEDM	Jeannette Skinner.....b	WFOE	Lewis Luckenbach.....b
WEDN	Creole.....b	WFOI	Manhattan Island.....b
WEDO	Amelia.....b	WFOO	William N. Page.....x
WEDP	Annetta.....b	WFP	Third radio zone No. 9 (portable).....fx
WEDR	Noyo.....b	WFQ	Third radio zone No. 13 (portable).....fx
WEDS	Redwood.....b	WFR	Third radio zone No. 14 (portable).....fx
WEDT	Norwood.....b	WFS	Third radio zone No. 15 (portable).....fx
WEDU	Santa Inez.....b	WFT	Spartanburg, S. C.....fb
WEDV	Edna Christenson.....b	WFUI	A. E. R. Schneider.....x
WEDZ	American Shipper.....b	WFX	Rocky Point, N. Y.....fx
WEE	Rocky Point, N. Y.....fx	WFY	Third radio zone (portable).....fx
WEE	do.....fx	WFZ	do.....fx
WEG	do.....fx	WGA	Garden City, N. Y.....fx
WEH	Tulsa, Okla.....fx	WGAA	Englewood.....b
WEJ	Rocky Point, N. Y.....fx	WGAO	Cities Service Koolmotor.....b
WEK	Wichita, Kans.....fx	WGB	Third radio zone (portable).....fx
WEL	Rocky Point, N. Y.....fx	WGBG	General call signal for any or all merchant vessels.....b
WEM	do.....fx	WGCA	Admiral Dewey.....b
WEN	New Brunswick, N. J.....fx	WGCB	Admiral Evans.....b
WEO	Rocky Point, N. Y.....fx	WGCC	Admiral Farragut.....b
WEQ	Baltimore, Md.....fx	WGCD	Admiral Fiske.....b
WER	Rocky Point, N. Y.....fx	WGCE	Admiral Moser.....b
WES	do.....fx	WGCF	Admiral Peary.....b
WET	do.....fx	WGCG	Admiral Rodman.....b
WEV	do.....fx	WGCH	Admiral Rogers.....b
WEX	do.....fx	WGCI	Admiral Schley.....b
WEY	Boston, Mass.....fc	WGCK	Admiral Sebree.....b
WEZ	Rocky Point, N. Y.....fx	WGCK	Admiral Watson.....b
WFA	Main Base.....fc, fx	WGCL	Curacao.....b
WFAI	West Hobomac.....b	WGCM	Emma Alexander.....b
WFAO	Volunteer.....b	WGCO	H. F. Alexander.....b
WFAT	Eleanor Boling.....b	WGCP	Dorothy Alexander.....b
WFBT	City of New York.....b	WGCR	Queen.....b
WFBC	Ponce.....b	WGCW	South American.....b
WFCC	Porto Rico.....b	WGD	San Juan, P. R.....fa, fx
WFCD	San Juan.....b	WGDG	Sinaloa.....b
WFCE	San Lorenzo.....b	WGDH	Queen Anne.....b
WFCJ	City of Atlanta.....b	WGDF	Ansonia.....b
WFCK	City of Birmingham.....b	WGDG	Irene L.....b
WFCL	City of Chattanooga.....b	WGDN	Memory III.....b
WFCM	City of Columbus.....b	WGDQ	Shenango.....b
WFCN	City of Montgomery.....b	WGDQ	Martha Foss.....b
WFCO	Somerset.....b	WGDR	Emma R. S.....b
WFCP	City of St. Louis.....b	WGDS	Vanda.....b
WFCQ	City of Savannah.....b	WGDT	Colrairie.....b

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Call	Station	Call	Station
WGDU	Cormorant.....b	WICK	El Isleo.....b
WGDV	John S. Cushing.....b	WICL	El Lago.....b
WGDW	Atlantic City, N. J. (municipal airport) fa, fx	WICM	El Mundo.....b
WGDX	Roland.....b	WICN	El Norte.....b
WGDY	Nihraga.....b	WICO	El Oceano.....b
WGDZ	Queen of Scots.....b	WICP	El Occidente.....b
WGE	New York, N. Y.....fa, fx	WICQ	El Oriente.....b
WGEA	Easterner.....b	WICR	El Siglo.....b
WGEI	East Indian.....b	WICS	El Valle.....b
WGF	Miami, Fla. (Dinner Key).....fa, fx	WICT	Momus.....b
WGG	Tuckerton, N. J.....fx	WICU	Tamiahua.....b
WGIA	West Grama.....b	WICV	Topila.....b
WGO	Chicago, Ill., radio.....fc, fx	WICW	Torres.....b
WGOI	Saccarappa.....b	WICX	Dixie.....b
WGOU	West Cressy.....b	WIDA	Santa Inez.....b
WGT	San Juan, P. R.....fx	WIDB	Harbor.....b
WGU	do.....fx	WIDC	Abacena.....b
WGUI	Brandywine.....b	WIDD	Doodeen.....b
WGV	Galveston, Tex., radio.....fc, fx	WIDE	Kiska.....b
WGW	Vieques, P. R., radio.....fc	WIDF	Joseph H. Frantz.....b
WGX	San Juan, P. R.....fx	WIDG	Santa Rita.....b
WGZ	do.....fx	WIDH	Buccaneer.....b
WHC	Allentown, Pa.....fx	WIDI	Mikimiki.....b
WHCA	Agwidale.....b	WIDJ	Temptress.....b
WHCB	Brazos.....b	WIDK	Beryle E.....b
WHCD	Comal.....b	WIDL	Leonine.....b
WHCF	Henry R. Mallory.....b	WIDM	Sally S.....b
WHCG	Medina.....b	WIDN	Virginia E.....b
WHCH	Pecos.....b	WIDP	Resource.....b
WHCI	San Jacinto.....b	WIDQ	Rudolf N.....b
WHCM	Nelson.....b	WIDR	Hazel Robb.....b
WHCO	Castle Town.....b	WIDS	Barron F.....b
WHCP	Cities Service Fuel.....b	WIDT	Sacco.....b
WHCQ	Mount Hope.....b	WIDW	Evangeline.....b
WHCR	Miami.....b	WIDX	Farwest.....b
WHCT	Ulysses.....b	WIDY	E. P. Co. No. 4.....b
WHCU	Harry Farnum.....b	WIDZ	Mary Ellen.....b
WHCV	W. L. Connolly.....b	WIH	New Brunswick, N. J.....fx
WHCW	Gen. Crawley.....b	WIK	Rocky Point, N. Y.....fx
WHCX	Governor Cobb.....b	WIM	Marion, Mass., radio.....fc
WHCY	Sabine.....b	WIO	Fort Morgan, Ala., radio.....fc, fx
WHCZ	Relief.....b	WIR	Rocky Point, N. Y.....fx
WHD	New York, N. Y.....fc	WIY	do.....fx
WHD A	Sea Hawk.....b	WIZ	New Brunswick, N. J.....fx
WHD C	Nomad.....b	WJA	Chicago, Ill.....fx
WHD D	Gar, Sr.....b	WJAA	Exton.....b
WHD Q	Suff.....b	WJAO	Missoula.....b
WHD J	Viking.....b	WJC	Chicago, Ill.....fx
WHD K	Zelda.....b	WJCA	Currier.....b
WHD M	Fairfield.....b	WJCB	Gulf of Mexico.....b
WHD N	Alabama.....b	WJCC	Gulfcoast.....b
WHD O	Warrior.....b	WJCD	Gulfland.....b
WHD Q	Ulua.....b	WJCE	Gulfight.....b
WHD R	Tonga.....b	WJCF	Gulfmaid.....b
WHD S	Penguin.....b	WJCG	Gulfoil.....b
WHD T	William J. O'Brien.....b	WJCH	Gulfqueen.....b
WHD W	Idler.....b	WJCI	Gulfstream.....b
WHD X	Helena.....b	WJCJ	Ligonier.....b
WHD Y	Bleins.....b	WJCK	Trinidadian.....b
WHD Z	Halcyon.....b	WJCL	Winifred.....b
WHF	Wilmington, Md.....fx	WJCN	Senator Bailely.....b
WHG	Columbus, Ohio.....fa, ab	WJCO	Robert P. Clark.....b
WHL	Indiana, Pa.....fx	WJCP	Gulfhawk.....b
WHM	Indianapolis, Ind.....fa, ab	WJCQ	Gulfwing.....b
WHQ	Maackinac Island, Mich., radio.....fc, fx	WJCR	Everett.....b
WHR	Rocky Point, N. Y.....fx	WJCS	Felix Taussig.....b
WHV	Jersey City, N. J.....fx	WJCT	Lemuel Burrows.....b
WHW	Newark, N. J.....fx	WJCU	Lewis K. Thurlow.....b
WHX	Highland Park, Ill.....fx	WJCV	Melrose.....b
WHZ	Atlanta, Ga.....fx	WJCW	Newton.....b
WIA	New Brunswick, N. J.....fx	WJCX	Sewalls Point.....b
WICA	Western Ocean.....b	WJCY	Stephen R. Jones.....b
WICB	Creole.....b	WJ CZ	Walter D. Noyes.....b
WICD	El Alba.....b	WJD	William A. McKenney.....b
WICE	El Almirante.....b	WJDA	New York, N. Y.....fx
WICF	El Capitan.....b	WJDB	Jitney.....b
WICG	El Cid.....b	WJDC	Shenango.....b
WICH	El Coston.....b	WJDD	Seven Seas.....b
WICI	El Dia.....b	WJDE	George W. Mead.....b
WICJ	El Estero.....b	WJDF	Dwight F. Davis.....b
			Migrant.....b

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Call	Station	Call	Station
WJDG	Lone Star.....b	WKDM	Violet Ray.....b
WJDH	Eleu.....b	WKDN	Buddy.....b
WJDI	Ida Mae.....b	WKDO	Koyola.....b
WJDJ	Sage Brush.....b	WKDQ	Neponset.....b
WJDK	Wind Rush.....b	WKDR	Spitfire.....b
WJDL	Aztec.....b	WKDS	Haida.....b
WJDM	Sataria.....b	WKDT	Detroit, Mich.....fx
WJDN	Tidewater.....b	WKDU	Cincinnati, Ohio.....fx
WJDO	Alice Cooke.....d	WKDV	Dream Girl.....b
WJDP	John Kendall.....b	WKDW	Rustler.....b
WJDQ	Lanikai.....b	WKDX	New York, N. Y.....fc
WJDR	Sobre las Olas.....b	WKDY	Berwindvale.....b
WJDS	Ballantrae.....b	WKI	Sayville, N. Y.....fx
WJDT	Hualalai.....b	KWIA	Fish Hawk.....b
WJDU	Dorothy Cahill.....b	WKII	Willkeno.....b
WJDV	Hartwelson.....b	WKJ	Rocky Point, N. Y.....fx
WJDY	Hi-Esmaro.....b	WKK	Ceiba, P. R.....fc
WJE	Rockport, Wash. (near).....fx	WKL	Rocky Point, N. Y.....fx
WJEL	Admiral Peoples.....b	WKM	do.....fx
WJEO	Phoenix.....b	WKO	do.....fx
WJF	New Orleans, La.....fx	WKP	do.....fx
WJG	Philadelphia, Pa.....fx	WKQ	do.....fx
WJH	Washington, D. C.....fx	WKU	do.....fx
WJI	Atka Island, Alaska.....fx	WKUU	West Zeda.....b
WJIO	Independence.....b	WKV	Rocky Point, N. Y.....fx
WJIU	Schenectady.....b	WKZ	Cumberland, Md.....fx
WJK	Needham, Mass.....fx	WLAA	Sarcouxie.....b
WJL	Greensburg, Pa.....fx	WLAE	Barlow.....b
WJM	Washington, D. C.....fx	WLC	Rogers City, Mich., radio.....fc, fx
WJN	Little Neck, N. Y.....fx	WLCA	Edgar F. Luckenbach.....b
WJO	do.....fx	WLCB	Edward Luckenbach.....b
WJOA	West Elicasco.....b	WLCC	F. J. Luckenbach.....b
WJOE	West Eldara.....b	WLCD	Julia Luckenbach.....b
WJOI	West Loquassuck.....b	WLCE	K. I. Luckenbach.....b
WJOO	West Madaket.....b	WLCF	Katrina Luckenbach.....b
WJOU	West Kyska.....b	WLCG	Lillian Luckenbach.....b
WJP	Little Neck, N. Y.....fx	WLCH	Paul Luckenbach.....b
WJQ	do.....fx	WLCL	Florence Luckenbach.....b
WJS	do.....fx	WLCM	Western Wave.....b
WJT	San Juan, P. R.....fx	WLCN	William Isom.....b
WJU	Little Neck, N. Y.....fx	WLCO	Relay.....b
WJUO	Carriso.....b	WLCP	Commercial Courier.....b
WJV	Philadelphia, Pa.....fx	WLCQ	Archer.....b
WJX	Washington, D. C.....fx	WLCR	Dodeca.....b
WKC	Rocky Point, N. Y.....fx	WLCT	Casiana.....b
WKCA	Carolyn.....b	WLCU	Aloha.....b
WKCB	Clare.....b	WLCV	Vega.....b
WKCC	Cornelia.....b	WLD	Ludington, Mich.....fc, fx
WKCD	Edith.....b	WLIA	Santa Teresa.....b
WKCE	Evelyn.....b	WLL	Rocky Point, N. Y.....fx
WKCF	Helen.....b	WLM	Washington, D. C.....fx
WKCG	Hilton.....b	WLO	Lawrenceville, N. J.....fx
WKCH	Margaret.....b	WLOO	Cadaretta.....b
WKCI	Mililocket.....b	WLP	Minneapolis, Minn.....fx
WKCJ	Meddo.....b	WLX	Zamboanga, P. I. (Petit Barracks).....fx
WKCK	Jean.....b	WLY	Fort Monmouth, N. J. (Long Branch).....fx
WKCL	Paulsboro.....b	WLZ	Fort De Lesseps, Canal Zone.....fc
WKCM	Sierra.....b	WMAE	H. W. Baxter.....b
WKCNA	Resolute.....b	WMB	West Reading, Pa.....fx
WKCO	Munbeaver.....b	WMBN	Happy Days.....b
WKCP	Caloria.....b	WMBP	Dawn Star.....b
WKCQ	Richfield.....b	WMBV	Lakeland.....b
WKCR	Malabar.....b	WMCB	Enterprise.....b
WKCU	Marina.....b	WMC	Chirikof.....b
WKCV	Pennsylvania.....b	WMCB	Maikiki.....b
WKCW	Coamo.....b	WMC	Malolo.....b
WKCX	Maine.....b	WMC	Manoa.....b
WKCY	Virginia.....b	WMC	Matsonia.....b
WKCZ	Coastwise.....b	WMC	Maui.....b
WKD	Rocky Point, N. Y.....fx	WMC	Wilhelmina.....b
WKDA	Seabeyville, N. J.....fc	WMC	California.....b
WKDB	Nanuk.....b	WMC	Santa Cruz.....b
WKDC	Berwind Glen.....b	WMC	Cacique.....b
WKDD	Dorothy.....b	WMC	Essex.....b
WKDE	Plainfield, Ill.....fx	WMC	Gloucester.....b
WKDF	State of Virginia.....b	WMC	Grecian.....b
WKDH	Akufan.....b	WMC	Howard.....b
WKDI	Margo.....b	WMC	Juniata.....b
WKDJ	Peru.....b	WMC	Nantucket.....b
WKDK	Theo.....b	WMC	Ontario.....b
WKDL	Miami, Fla.....fa, fx		

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

Call	Station	Call	Station		
WMD	Fordson, Mich.....	fx	WNDK	Springfield, Ill.....	fx
WMDB	Santa Clara.....	b	WNDL	Milwaukee, Wis.....	fx
WMDC	Olive K.....	b	WNDM	Columbus, Ohio.....	fx
WMDE	Humuula.....	b	WNDN	Laurel, Md.....	fx
WMDJ	Nakhoda.....	b	WNDQ	do.....	fx
WMDK	Northland.....	b	WNDP	New Brunswick, N. J.....	fx
WMDL	Jeanne.....	b	WNDQ	Arlington, Tenn.....	fx
WMDM	Shasta.....	b	WNDR	Trenton, Tenn.....	fx
WMDN	West Poasset.....	b	WNE	Bradenton, Fla.....	fx
WMDO	Salt Lake City.....	b	WNEO	Dio.....	b
WMDP	Spitkit II.....	b	WNF	Lakeland, Fla.....	fx
WMDQ	Karador.....	b	WNG	West Palm Beach, Fla.....	fx
WMDR	Alpha.....	b	WNH	Miami, Fla.....	fx
WMDS	S. O. Co. No. 3.....	b	WNIL	Challenger.....	b
WMDT	Fordham.....	b	WNIU	Cornore.....	b
WMDU	Pennsylvania.....	b	WNL	Rocky Point, N. Y.....	fx
	Notre Dame.....	b	WNM	Lake City, Fla.....	fx
	San Juan, P. R. (Pan American	b	WNN	Mobile, Ala., radio.....	fc, fx
	Airport).....	fa	WNO	Alpena, Mich.....	fx
WMDV	Lotusland.....	b	WNP	Palatka, Fla.....	fx
WMDW	City of San Francisco.....	b	WNQ	Fort Lauderdale, Fla.....	fx
WMDX	Patrick J. O'Hara.....	b	WNR	Richmond, Va.....	fx
WMDY	City of Panama.....	b	WNS	Punta Gorda, Fla.....	fx
WMZ	Indianapolis, Ind.....	fx	WNT	Sanford, Fla.....	fx
WME	Duluth, Minn., radio.....	fc, fx	WNU	New Orleans, La., radio.....	fc, fx
WMEA	Charles L. O'Connor.....	b	WNUO	Brookdale.....	b
WMEE	Michael Tracy.....	b	WNV	St. Augustine, Fla.....	fx
WMEO	Lumberman.....	b	WNVW	Philadelphia, Pa., radio.....	fc
WMH	Baltimore, Md., radio.....	fc	WNX	Daytona Beach, Fla.....	fx
WMI	Lawrenceville, N. J.....	fx	WNY	New York, N. Y., radio (Borough of	
WMIO	W. H. McGean.....	b		Brooklyn).....	fc
WMJU	Charles L. Hutchinson.....	b	WNZ	Fort Pierce, Fla.....	fx
WMJ	Buffalo, N. Y.....	fx	WOB	Connellsville, Pa.....	fx
WMJL	Sayville, N. Y.....	fx	WOBA	S. T. Crapo.....	b
WMO	Highland Park, Mich.....	fx	WOBE	Larry Doheny.....	b
WMP	Framingham, Mass.....	fx	WOBG	Shawnee.....	b
WMR	West Palm Beach, Fla.....	fc	WOB1	Nor'easter.....	b
WMU	Linden, N. J.....	fx	WOB2	Commodore.....	b
WMW	Manitowoc, Wis., radio.....	fc, fx	WOBK	Carl D. Bradley.....	b
WMX	Manistique, Mich., radio.....	fc, fx	WOBL	General Ashburn.....	b
WNAI	Fred W. Green.....	b	WOBM	C. C. Webber.....	b
WNBD	Cressida.....	b	WOBP	Iolanda.....	b
WNBG	S. S. Thorpe.....	b	WOBV	Nippekontu.....	b
WNBH	Katharine.....	b	WOBY	Barney, jr.....	b
WNBS	Papoose.....	b	WOBZ	Mimi.....	b
WNBV	Xarifa.....	b	WOCA	D. G. Scofield.....	b
WNC	Lawrenceville, N. J.....	fx	WOCB	Captain A. F. Lucas.....	b
WNCA	Munaires.....	b	WOCC	El Segundo.....	b
WNCB	Munalbro.....	b	WOCD	Hawaiian Standard.....	b
WNCC	Munamar.....	b	WOCE	J. C. Fitzsimmons.....	b
WNCD	Mundelta.....	b	WOCF	Richmond.....	b
WNCE	Munindies.....	b	WOCH	S. O. Co. No. 95.....	b
WNCF	Munisla.....	b	WOCl	J. A. Moffett.....	b
WNCG	Munorleans.....	b	WOCJ	A. C. Bedford.....	b
WNCI	Munplace.....	b	WOCK	Benjamin Brewster.....	b
WNCJ	Munrio.....	b	WOCM	Charles Pratt.....	b
WNCK	Munsomo.....	b	WOCN	F. Q. Barstow.....	b
WNCM	Walter D. Munson.....	b	WOCO	Fred W. Weller.....	b
WNCN	City of Cleveland III.....	b	WOCF	Glenpool.....	b
WNCO	City of Detroit III.....	b	WOCQ	H. H. Rogers.....	b
WNC1	Santa Cecilia.....	b	WOCR	Il. M. Flager.....	b
WNC2	Delecto.....	b	WOCS	Cities Service Toledo.....	b
WNC3	Venezuela.....	b	WOCT	James McGee.....	b
WNC4	Colombia.....	b	WOCU	L. J. Drake.....	b
WNC5	Rosamond.....	b	WOCV	O. T. Waring.....	b
WNC6	Saugerties.....	b	WOCW	Pioneer.....	b
WNC7	Ecuador.....	b	WOCX	Polarine.....	b
WNC8	Seminole.....	b	WOCY	Princeton.....	b
WNC9	Santa Ana.....	b	WOCZ	Standard.....	b
WNCZ	Rajah.....	b	WOD	Beaumont, Tex.....	fx
WND	Lawrenceville, N. J.....	fx	WODB	Jupiter.....	b
WND1	Miami, Fla.....	fx	WODC	Neptune.....	b
WND2	Brunswick, Ohio.....	fx	WODE	Orion.....	b
WND3	do.....	fx	WODI1	Sablou.....	b
WND4	Millford, Ohio.....	fx	WODI2	Harriet.....	b
WND5	South Lyon, Mich.....	fx	WODK	Antares.....	b
WND6	Akron, N. Y.....	fx	WODL	Nancy Weems.....	b
WND7	Taunton, Mass.....	fx	WODM	Frances Weems.....	b
WND8	do.....	fx	WODN	Betty Weems.....	b
WND9	Dayton, Ohio.....	fx	WODO	General call for all vessels of Export	
WNDJ	Peoria, Ill.....	fx		S. S. Co.....	b

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

Call	Station	Call	Station
WODP	Georganna Weems.....b	WPDP	Philadelphia, Pa.....fx
WODQ	Jean Weems.....b	WPDR	Rochester, N. Y.....fx
WODR	Marjory Weems.....b	WPDS	St. Paul, Minn.....fx
WODS	Naushon.....b	WPE	Rocky Point, N. Y.....fx
WODT	K-22513.....b	WPII	Williamsport, Pa.....fx
WODU	Bainbridge.....b	WPI	Memphis, Tenn.....fx
WODV	Mariposa.....b	WPIE	Corrales.....b
WODW	Marianna.....b	WPI	Cheboygan, Mich.....fx
WODY	Georgene.....b	WPL	St. Croix Falls, Wis.....fx
WODZ	Yankee.....b	WPM	Birmingham, Ala.....fx
WOE	Palm Beach, Fla., radio.....fc	WPN	Garden City, N. Y., radio.....fx
WOF	Chicago, Ill.....fx	WPO	Boston Lightship, Mass.....fc
WOO	Ocean Gate, N. J., radio.....fc	WPOU	Charles M. Everest.....b
WOY	Springdale, Pa.....fx	WPP	Mobile, Ala.....fc, fx
WOZ	New York, N. Y. (telephone only).....fc	WPPQ	Pollock Rip Lightship, Mass.....fc
WPA	Port Arthur, Tex., radio.....fc	WPR	Ensenada, P. R.....fc, fx
WPA A	General call for all vessels of Interlake S. S. Co.....b	WPS	Nantucket Shoals Lightship, Mass.....fc
WPAI	Yonachichi.....b	WPT	Relief Lightship No. 85.....fc
WPAN	Pan American Airways—general call for all stations.....a, fa	WPUE	Caddopeak.....b
WPAO	Wilcox.....b	WPUI	Watsonville.....b
WPB	Portland Lightship, Me.....fc	WPUU	Coaxet.....b
WPBA	Robert Hobson.....b	WPV	Marysville, Mich.....fx
WPBB	William McLaughlin.....b	WPW	Relief Lightship No. 90.....fc
WPBC	Annasa Stone.....b	WPX	Cornfield Point Lightship, Conn.....fc
WPBD	Charles M. Schwab.....b	WPY	New York, N. Y.....fc
WPBE	Colonel James Pickands.....b	WPZ	Fire Island Lightship, N. Y.....fc
WPBF	Harry Couby.....b	WQA	Rocky Point, N. Y.....fx
WPBG	Samuel Mather.....b	WQB	do.....fx
WPBH	Youngstown.....b	WQBB	Timberman.....b
WPBI	Venus.....b	WQBD	Seyelyn.....b
WPBJ	Axtell J. Byles.....b	WQBE	Irene.....b
WPBK	Crest.....b	WQBF	Columbine.....b
WPBL	Surf.....b	WQBG	Atlantic.....b
WPBM	Swell.....b	WQBH	Snoil.....b
WPBN	Enchantress.....b	WQBI	Havana.....b
WPBP	Marsodak.....b	WQBK	Captain William.....b
WPBQ	Pat Doheny.....b	WQBL	H. C. Cadmus.....b
WPBS	David P. Fleming.....b	WQBM	Albacore.....b
WPBT	Santa Barbara.....b	WQBN	Malibu.....b
WPBU	Mid-West.....b	WQBP	Trinidad.....b
WPBW	Santa Maria.....b	WBRQ	Breeze.....b
WPBY	Alder.....b	WQBR	Caliche.....b
WPBZ	William P. Snyder, Jr.....b	WQBS	Louie Black.....b
WPC	Quincy, Mass.....fc	WQBT	Nourmahal.....b
WPCA	C. A. Canfield.....b	WQBU	Ilyria.....b
WPCB	Charles E. Harwood.....b	WQBV	Australia.....b
WPCD	Frederic Fwing.....b	WQBX	Alki.....b
WPC E	Frederic R. Kellogg.....b	WQBY	Keystone.....b
WPCF	George G. Henry.....b	WQC	Rocky Point, N. Y.....fx
WPCG	Harold Walker.....b	WQCA	Caracas.....b
WPCI	J. M. Danziger.....b	WQCB	Maracuiho.....b
WPCJ	Norman Bridger.....b	WQCC	Santore.....b
WPCK	Oscar D. Bennett.....b	WQCD	Libby Maine.....b
WPC L	R. W. Stewart.....b	WQCE	Star of Zealand.....b
WPCM	S. M. Spalding.....b	WQCF	Firnore.....b
WPCN	William Green.....b	WQCG	Mangore.....b
WPCP	Edward L. Doheny.....b	WQCH	Carabobo.....b
WPCS	D. J. Moran.....b	WQCJ	Otsego.....b
WPCT	Alabama.....b	WQCL	Trujillo.....b
WPCU	Arizona.....b	WQCM	Arctic.....b
WPCV	Carolina.....b	WQCN	Mount Baker.....b
WPCW	Christopher Columbus.....b	WQCO	Saucon.....b
WPCX	City of Benton Harbor.....b	WQCP	Kvichak.....b
WPCY	Illinois.....b	WQCQ	Frank H. Buck.....b
WPCZ	Indiana.....b	WQCS	T. A. D. Jones.....b
WPD	Tampa, Fla., radio.....fc	WQCU	Feltore.....b
WPD A	Cleveland, Ohio.....fx	WQCV	Avalon.....b
WPD B	Chicago, Ill.....fx	WQCW	Kannk.....b
WPD C	do.....fx	WQCX	Minnesota.....b
WPD D	do.....fx	WQCZ	General W. C. Gorgas.....b
WPD E	Louisville, Ky.....fx	WQD	Rocky Point, N. Y.....fx
WPD F	Flint, Mich.....fx	WQDA	Ebb.....b
WPD G	Youngstown, Ohio.....fx	WQDB	Flow.....b
WPD H	Richmond, Ind.....fx	WQDC	City of New York.....b
WPD I	Columbus, Ohio.....fx	WQDD	General.....b
WPD J	Passaic, N. J.....fx	WQDE	Amherst.....b
WPD L	Lansing, Mich.....fx	WQDF	Cornell.....b
WPD N	Auburn, N. Y.....fx	WQDG	Dartmouth.....b
		WQDI	Wallowa.....b
			Neshira.....b

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Call	Station	Call	Station
WQDK	Missouri..... b	WRF	Relief Lightship No. 78..... fc
WQDL	Pacific Sun..... b	WRG	Ambrose Channel Lightship, N. Y. fc
WQDN	Kittiwake..... b	WRH	Superior, Mich..... fx
WQDO	Gadfly II..... b	WRIE	Lake Gorin..... b
WQDP	Atlanta, Ga. (Candler Field)..... fa, fx	WRJ	Poe Reef Lighthouse, Mich..... fx
WQDQ	New Orleans, La. (Menefes Airport)..... fa, fx	WRL	Duluth, Minn., radio..... fc, fx
		WRN	Fenwick Island Shoal Lightship, Del..... fc
WQDR	Rene..... b	WRO	Winter Quarter Shoals Lightship, Va..... b
WQDS	Elda..... b		
WQDT	Syracuse, N. Y..... fa, fx	WROA	Westpool..... b
WQDU	Aurora, Ill..... fa, fx	WROO	F. H. Wickett..... b
WQDW	Dearborn, Mich..... fa, fx	WRS	Marion, Mass..... fx
WQDZ	Corsair..... b	WRT	Chesapeake Lightship, Va..... fc
WQE	Rocky Point, N. Y..... fx		New Brunswick, N. J. (Bound Brook)..... fx
WQEU	Mauna Ala..... b	WRV	Diamond Shoals, Lightship, N. C..... fc
WQF	Rocky Point, N. Y..... fx	WRW	Greensboro, N. C..... fx
WQG	do..... fx	WRX	Cape Lookout Shoals Lightship, N. C..... fc
WQH	do..... fx		
WQI	do..... fx	WRZ	Relief Lightship No. 80..... fc
WQIO	Susan V. Luckenbach..... b	WSA	New London, Conn., radio..... fc
WQJ	Rocky Point, N. Y..... fx	WSBB	City of Victoria..... b
WQK	do..... fx	WSBE	Elena..... b
WQL	do..... fx	WSBH	Greater Buffalo..... b
WQM	do..... fx	WSBI	Greater Detroit..... b
WQN	do..... fx	WSBK	Point Gorda..... b
WQO	do..... fx	WSBL	Albatross..... b
WQOE	Nosa Chief..... b	WSBM	Nakeen..... b
WQP	Rocky Point, N. Y..... fx	WSBN	Leviathan..... b
WQQ	do..... fx	WSBO	Vagabondia..... b
WQR	do..... fx	WSBP	Ontario..... b
WQS	do..... fx	WSBQ	Saturn..... b
WQT	do..... fx	WSBR	California Standard..... b
WQU	do..... fx	WSBU	Amida..... b
WQV	do..... fx	WSBV	W. E. Fitzgerald..... b
WQW	do..... fx	WSBW	Virginia..... b
WQX	do..... fx	WSBY	Sun..... b
WQY	do..... fx	WSBZ	Mist..... b
WQZ	San Juan, P. R..... fx	WSC	Tuckerton, N. J., radio..... fc
WRA	Barneget Lightship, N. J..... fe	WSCB	W. C. Teagle..... b
WRAE	Alabacat..... b	WSCC	W. H. Tilford..... b
WRBB	Anna Heelen..... b	WSCD	Wm. G. Warden..... b
WRBD	Coronet..... b	WSCF	Acme..... b
WRBE	John Purroy Mitchell..... b	WSCG	Astral..... b
WRBF	Gulfbird..... b	WSCII	Atlas..... b
WRBH	Cleveland, Ohio..... b	WSCJ	Broad Arrow..... b
WRBK	Claster O. Swain..... b	WSCK	Eagle..... b
WRBM	Christy Payne..... b	WSCP	Los Alamos..... b
WRBN	John W. Weeks..... b	WSCQ	Rawleigh Warner..... b
WRBP	Malvern..... h	WSCR	Harvard..... b
WRBR	Frederick C..... b	WSCS	City of Honolulu..... b
WRBS	Petrel..... b	WSCU	Yale..... b
WRBV	Curlew..... b	WSCV	Royal Arrow..... b
WRBY	Camargo..... b	WSCW	Socony..... b
WRBZ	North Dakota..... b	WSCX	Standard Arrow..... b
WRCB	City of Lowell..... b	WSCY	Sylvan Arrow..... b
WRCC	Commonwealth..... b	WSCZ	Tiger..... b
WRCE	Mohawk..... b	WSD	Vesta..... b
WRCF	New Hampshire..... b	WSEE	Frying Pan Shoals Lightship, N. C..... fc
WRCH	Plymouth..... b	WSF	W. L. Steed..... b
WRCI	Priscilla..... b	WSG	New York, N. Y., radio..... fc
WRCJ	Providence..... b	WSH	La Crosse, Wis..... fa, fx
WRCM	Molegan..... b	WSI	East Moriches, N. Y., radio..... fc
WRCN	New Haven..... b	WSJ	St. Johns River Lightship, Fla..... fc
WRCP	New London..... b	WSK	Sheboygan, Wis., radio..... fc, fx
WRCQ	Chester W. Chapin..... b	WSL	Sayville, N. Y., radio..... fc
WRCR	Richard Peck..... b	WSN	Relief Lightship No. 109..... fc
WRCX	Kilkenny..... b	WSNA	Leviathan lifeboat No. 31..... b
WRCY	Concord..... b	WSNB	Leviathan lifeboat No. 32..... b
WRZ	Lexington..... b	WSO	Marion, Mass..... fx
WRD	North East End Lightship, N. J..... fc	WSOI	Golden Cloud..... b
WRDM	Washington, D. C. (Hoover Field)..... fa, fx	WSP	Atlantic Coast (portable)..... fx
		WSQ	do..... fx
		WSR	do..... fx
WRDN	Norfolk, Va..... fa, fx	WSS	Rocky Point, N. Y..... fx
WRDQ	Toledo, Ohio..... fa, fx	WST	Dry Tortugas Light Station Fla..... fc
WRDR	Grosse Pointe Village, Mich..... fx	WSU	Herald Bank Lightship, Tex..... fc
WRDS	Township of Ingham, Mich..... fx	WSUA	Pacific Homlock..... b
WRDT	Cleveland, Ohio..... fa	WSUE	West Wauna..... b
WRE	Five Fathom Bank Lightship, N. J. fe	WSW	South Pass Lightship, La..... fc
WREA	West Lashaway..... b		
WREI	Quistconck..... b		
WREU	Governor John Lind..... b		

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Call	Station	Call	Station
WSX	Boston, Mass. fa, fx	WXOE	Brookings b
WSY	Darlington, Md. (near) fx	WXOI	Penobscot b
WSZ	Navassa Island Light Station, W. I. (Windward Passage) fc	WXOO	Craigsmere b
WTA	Manila, P. I. (Fort Santiago Luzon) fx	WXUI	Hampden b
WTB	Fort Wint, (Grando Island), P. I. fx	WZAE	West Humhaw b
WTBA	North American b	WZUA	Harry Bowen b
WTBB	Gale b	WTY	Camp Knox, Ky fx
WTBD	Quest b	WTZ	Fort Sill, Okla. fx
WTBE	Cyprus b	WUA	Camp Devens, Mass. fx
WTBG	Boston College b	WUAA	Cambrai b
WTBH	Georgetown b	WUAB	Somme b
WTBI	Holy Cross b	WGAC	Meigs b
WTBK	Chahunta b	WUAD	St. Mihiel b
WTBL	F. A. Bailey b	WUAF	Chateau-Thierry b
WTBM	Colonel James M. Schoonmaker b	WUAG	Grant b
WTBP	Goliath b	WUAH	Merritt b
WTBS	Defiance b	WUAI	Thomas b
WTBT	Yalo b	WUAJ	Dellwood b
WTBV	Gemma b	WUAK	Kenowis b
WTBX	Herbert G. Wylie b	WUB	Fort Hancock, N.J. (Highland Beach) fx
WTBY	Harvard b	WUC	Fort H. G. Wright, N. Y. fx
WTC	March Field, Calif. fa, fx	WUD	Fort Rustis, Va. fx
WTCA	Western States b	WUE	Fort George Wright, Wash. fx
WTCB	Eastern States b	WUF	Fort Monroe, Va. fx
WTCH	Robert E. Lee b	WUG	Fort D. A. Russell, Tex. fx
WTCI	Cherokee b	WUH	Fort McIntosh (Laredo), Tex. fx
WTCR	City of Buffalo b	WUI	Fort Riley, Kans. fx
WTCS	City of Erie b	WUJ	Fort Lewis, Wash. fx
WTCT	Seeandbee b	WUK	Fort George G. Meade, Md. fx
WTCU	Goodtime b	WUL	Fort Totten, N. Y. fx
WTCW	Republic b	WUM	Tucson, Ariz. fa, fx
WTD	Fort Wayne, Mich. (Battle Creek) . fx	WUN	Aberdeen Proving Grounds, Md. fx
WTDA	Albatross II b	WUO	Fort Benning, Ga. (Columbus) fx
WTDB	Brant b	WUP	Fort Mills, P. I. (Corregidor Island) . fx
WTDC	Crane b	WUQ	Yuma, Ariz. fa, fx
WTDE	Eider b	WUR	Camp McClellan, Ala. (Anniston) . fx
WTDE	Teal b	WUS	Fort Oglethorpe, Ga. fx
WTDF	Scoter b	WUT	Fort Story, Va. fx
WTDG	Kittiwake b	WUU	Fort Adams, R. I. (Newport) fx
WTDH	Penguin b	WUV	Fort Thomas, Ky. fx
WTDI	Chester b	WUW	West Point, N. Y. fx
WTE	Fort Drum, P. I. (Rizal) fx	WCX	Fort Ethan Allen, Vt. (Essex Junction) fx
WTF	Akron, Ohio fx	WUY	Fort Crockett, Tex. (Galveston) . fa, fx
WTG	Wrangell, Alaska fx	WUZ	Fort Brown, Tex. (Brownsville) . fx
WTH	Fort Brady, Mich. (Sault Ste. Marie) . fx	WVB	Fort Sam Houston, Tex. (San Antonio) . fx
WTI	Vancouver Barracks, Wash. fx	WVC	Fort Leavenworth, Kans. fx
WTIO	Socony 94 b	WVD	Seattle, Wash. fx
WTIU	Mathew Luckenbach b	WVG	Granada, Nicaragua fx
WTJ	Fort Shafter, Hawaii (Honolulu) . fx	WVL	Quarry Heights, Canal Zone fx
WTK	Cleveland, Ohio, radio fc, fx	WVM	Presidio of Monterey, Calif. (Monterey) fx
WTL	Cleveland, Ohio fx	WVN	Tientsin, China fx
WTM	General call signal for all commercial coast stations. fx	WVO	Boston, Mass. fx
WTN	Fort Preble, Me. fx	WVP	Governors Island, N. Y. fx
WTO	Fort Kamehameha, Hawaii (Honolulu) fx	WVQ	Fort Howard, Md. (Baltimore) fx
WTOU	William C. Atwater b	WVR	Fort McPherson, Ga. fx
WTP	Fort Ruger, Hawaii fx	WVS	Fort Benjamin Harrison, Ind. fx
WTQ	Petersburg, Alaska fx	WVT	Chicago, Ill. fx
WTR	Fort Rodman, Mass. fx	WVU	Fort Omaha, Neb. fx
WTS	Denver, Colo. (Fitzsimons General Hospital) fx	WVV	Jefferson Barracks, Mo. (St. Louis) . fx
WTT	Rocky Point, N. Y. fx	WVW	Fort Francis E. Warren, Wyo. fx
WTU	Cordova, Alaska fx	WVX	Fort Douglas, Utah. (Salt Lake City) . fx
WTUU	Nevada b	WVY	San Francisco, Calif. (Presidio of San Francisco) fx
WTV	West Mahomet b	WVZ	Fort Hayes, Ohio (Columbus) fx
WTW	Haines, Alaska b	WWA	Grand Island, Neb. fx
WTW	Fort Monmouth, N. J. fx	WWAB	Williamsville, N. Y. (Buffalo) . fa, fx
WTX	Fort William McKinley, P. I. (Rizal) . fx	WWAC	Murfreesboro, Tenn. fa, fx
WVAA	Coquina b	WWAH	Albany, N. Y. fa, fx
WVOE	El Codro b	WWCA	Ilexiscus b
WVOI	Munmotor b	WWCB	Ilex b
WVUF	Courageous b	WWCD	Anemone b
WVAA	General call for all vessels the stations of which are operated by R. M. C. A. b	WWCE	Azalea b
WXEO	West Cape b	WWCF	Lotus b
WXIA	Victorious b	WWCH	Tulip b
		WWCI	Larkspur b
		WWCJ	Spruce b

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Call	Station	Call	Station
WWCN	Maple..... b	WYAI	Gen. George H. Weeks..... b
WWCO	Orchid..... b	WYAJ	Milcy..... b
WWCP	Mayflower..... b	WYAK	Gen. G. W. Getty..... b
WWCQ	Speedwell..... b	WYAM	Capt. James Fornance..... b
WWCT	Cypress..... b	WYAN	Reno..... b
WWCU	Mangrove..... b	WYAO	Maj. Evan Thomas..... b
WWCW	Ivy..... b	WYAR	Gen. R. N. Batchelder..... b
WWCY	Magnolia..... b	WYAT	Gen. Mifflin..... b
WWCZ	Sunflower..... b	WYAU	San Pedro..... b
WWD	St. George, Alaska (Pribilof Islands)..... fx	WYAV	Slocum..... b
WWDG	Acacia..... b	WYAY	Gen. Richard Arnold..... b
WWDH	Crocus..... b	WYB	Bolling Field, D. C. (Anacostia)..... fa, fx
WWDK	Amaranth..... b	WYBA	Gen. Absalom Baird..... b
WDDL	Marigold..... b	WYBB	Gen. J. Franklin Bell..... b
WDDM	Hyacinth..... b	WYBC	San Pablo..... b
WDDN	Sumac..... b	WYBD	Gen. William M. Graham..... b
WDDQ	Willow..... b	WYBE	Col. George F. E. Harrison..... b
WDDR	Fern..... b	WYBP	Capt. Edward P. Nones..... b
WDDV	Cedar..... b	WYBS	Lt. Col. Herman C. Schumm..... b
WDDX	Heather..... b	WYBV	Maj. Albert G. Jenkins..... b
WWE	Manzanita..... b	WYBW	Maj. William P. Pence, jr..... b
WWF	Rose..... b	WYBY	Capt. Clarence M. Condon..... b
WWFA	Lupine..... b	WYCA	Langley Field, Va. (Hampton)..... fa, fx
WWG	Sequoia..... b	WYCB	Cuba..... b
WWH	Kukul..... b	WYCC	Inspector..... b
WWI	Fourteen Foot Shoals, Mich..... fx	WYCD	Jupiter..... b
WWJ	Alkiak, Alaska..... fx	WYCE	Saturn..... b
WWK	Seal..... b	WYCF	Gamma..... b
WWL	Cheboygan Range, Mich..... fx	WYCG	Iota..... b
WWM	Stannard Rock Light Station, Mich..... fe	WYCH	Delta..... b
WWN	Bureau of Lighthouses—general call for all stations of..... b, fe	WYCI	Henry Flad..... b
WWO	Marquette Light Station, Mich..... fx	WYCK	B. M. Harrod..... b
WWP	Detroit River Light Station, Mich..... fx	WYCL	West Memphis..... b
WWQ	Cleveland, Ohio..... fx	WYCM	John Ewens..... b
WWR	Savoonga (St. Lawrence Island), Alaska..... fx	WYCN	Culebra..... b
WWT	Bellefonte, Pa..... fx	WYCO	F. H. Hilliard..... b
WUU	Detroit Lighthouse Depot, Mich..... fx	WYCP	A. McKenzie..... b
WUV	Afognak, Alaska..... fx	WYCQ	W. L. Marshall..... b
WV	New Brunswick, N. J. (Hadley Field)..... fa, fx	WYCR	Dan C. Kingman..... b
WVX	Washington, D. C. (Bureau of Standards, radio laboratory)..... fx	WYCS	William T. Rossell..... b
WVY	Washington, D. C..... fx	WYCT	Morgan-Lewis..... b
WVZ	Pittsburgh, Pa. (portable)..... fx	WYCU	Sprigg Carroll..... b
WXA	Lansing Shoal Lightship, Mich..... fe	WYCV	Mississippi..... b
WXB	Juneau, Alaska..... fx	WYCW	Aldebaran..... b
WXC	Point Barrow, Alaska..... fx	WYCX	Omega..... b
WXD	Sitka, Alaska..... fx	WYCY	H. S. Taber..... b
WXE	Circle, Alaska..... fx	WYD	Willets Point..... b
WXF	Anchorage, Alaska..... fx	WYDC	Tuseumbia..... b
WYG	Livengood, Alaska..... fx	WYDD	Griffith..... b
WXG	Wiseman, Alaska..... fx	WYDE	Dayton, Ohio (Wright Field)..... fa, fx
WXH	Ketchikan, Alaska..... fe, fx	WYDF	Tecumseh..... b
WXI	Bethel, Alaska..... fx	WYDG	Fort Gage..... b
WXJ	Valdez, Alaska, radio..... fe, fx	WYDH	Fort Chartres..... b
WXK	Hot Springs, Alaska..... fx	WYDI	Ed. J. Howard..... b
WXL	Iditarod, Alaska..... fx	WYDII	Barnard..... b
WXM	Holy Cross, Alaska..... fx	WYE	Gouverneur..... b
WXN	Fortuna Ledge, Alaska..... fx	WYF	Selfridge Field, Mich. (Mount Clemens)..... fa, fx
WXP	Craig, Alaska..... fx	WYG	Scott Field, Ill. (Belleville)..... fa, fx
WXQ	Fairbanks, Alaska..... fx	WYH	Kelly Field, Tex. (San Antonio)..... fx
WXR	Fort Egbert, Alaska..... fx	WYI	Rockwell Field, Calif. (Coronado)..... fa, fx
WXS	Seward, Alaska, radio..... fe, fx	WYJ	Burgess Field, Pa. (Uniontown)..... fa, fx
WXT	Fort Gibbon, Alaska (Tenana)..... fx	WYK	Chanute Field, Ill. (Rantoul)..... fa, fx
WXU	Fort St. Michael, Alaska..... fx	WYL	Maxwell Field, Ala..... fx
WXV	Ruby, Alaska..... fx	WYM	Cumberland Field, Md. (Cumberland)..... fa, fx
WXW	Tacotna, Alaska..... fx	WYN	Fort Leavenworth, Kans..... fa
WXX	Kotzebue, Alaska..... fx	WYO	Hat Box Field, Okla. (Muskogee)..... fa, fx
WXY	Fort Yukon, Alaska..... fx	WYP	Love Field, Tex. (Dallas)..... fa, fx
WZZ	Nome, Alaska, radio..... fe, fx	WYQ	France Field, Cannal Zone (Cristobal)..... fa, fx
WYA	Nulato, Alaska..... fx	WYR	Luke Field, Hawaii (Pearl Harbor)..... fa, fx
WYAA	Mitchel Field, N. Y. (Mineola, L. I.)..... fa, fx	WYS	Kindley Field, P. I. (Corregidor Island)..... fa, fx
WYAB	Gen. Royal T. Frank..... b	WYT	Clark Field, P. I. (Camp Stotsenburg)..... fa, fx
WYAC	Gen. John M. Schofield..... b	WYU	Camp Nichols, P. I. (Rizal)..... fa, fx
WYAD	Joseph Henry..... b	WYV	Middletown, Pa..... fa, fx
WYAE	Gen. Edward O. C. Ord..... b	WYW	Fort Riley, Kans..... fa, fx
WYAF	Col. George Armistead..... b	WYX	Bowman Field, Ky. (Louisville)..... fa, fx
WYAG	Gen. Robert Anderson..... b		

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

Call	Station	Call	Station
WYX	Wheeler Field, Hawaii (Oahu).....fa, fx	WZM	Camp Harry J. Jones, Ariz. (Douglas).....fx
WYY	Dryden, Tex.....fa, fx	WZN	Camp Stotsenburg, P. I.....fx
WYZ	Lordsburg, N. Mex.....fa, fx	WZO	Fort Bliss, Tex. (El Paso).....fx
WZA	Grundler, Alaska.....fx	WZP	Fort Huachuca, Ariz.....fx
WZAA	Pope Field (Fort Bragg), N. C.....fa	WZQ	Camp John Hay, P. I.....fx
WZAB	Midland, Tex.....fa	WZR	Teller, Alaska.....fx
WZB	Fort Clark, Tex. (Brackettsville).....fx	WZS	Fort Snelling, Minn.....fx
WZC	Skagway, Alaska.....fx	WZT	Fort Des Moines, Iowa (Des Moines).....fx
WZD	Fort Barrancas, Fla.....fx	WZU	Fort Sherman, Canal Zone.....fx
WZE	Kanakanak, Alaska.....fx	WZV	Fort Randolph, Canal Zone.....fx
WZF	Squaw Harbor, Alaska (Unga Island), radio.....fx	WZW	Fort MacArthur, Calif.....fx
WZG	Fort Bragg, N. C. (Fayetteville).....fx	WZX	San Jose Field (Mindoro), P. I.....fa, fx
WZH	Los Angeles, Calif.....fx	WZY	Fort Grant, Canal Zone.....fx
WZI	Fort Ringgold, Tex.....fx	WZZ	Crissy Field (Presidio of San Francisco), Calif.....fa, fx
WZJ	Schofield Barracks, Hawaii.....fx		
WZK	St. Louis, Mo.....fx		
WZL	Camp Stephen D. Little, Ariz.....fx		

BROADCASTING STATIONS, ALPHABETICALLY BY STATES AND CITIES

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)
Alabama:				California—Con.			
Birmingham...	WAPI	1,140 (263.2)	5,000	San Francisco...	KFRC	610 (492)	1,000
Do.....	WBRC	930 (323)	1,500	Do.....	KFWI	930 (323)	500
Do.....	WKBC	1,310 (229)	100	Do.....	KGGC	1,420 (211.3)	100
Gadsden.....	WJBY	1,210 (247.9)	50	Do.....	KJBS	1,070 (280.4)	100
Montgomery.....	WSFA	1,410 (212.8)	500	Do.....	KPO	680 (441)	5,000
Springhill ³	WODX	1,410 (212.8)	500	Do.....	KYA	1,230 (243.9)	1,000
Talladega.....	WFDW	1,420 (211.3)	100	San Jose.....	KQW	1,010 (297)	500
Alaska:				Santa Ana.....	IKREG	1,500 (200)	100
Anchorage.....	KFQD	1,230 (243.9)	100	Santa Barbara.....	KDB	1,500 (200)	100
Juneau.....	KFIU	1,310 (229)	10	Santa Maria.....	KSMR	1,200 (250)	100
Ketchikan.....	KGBU	900 (333)	500	Santa Monica.....	KTM	780 (385)	1,500
Arizona:				Stockton.....	KGDM	1,100 (272.7)	250
Flagstaff.....	KFXV	1,420 (211.3)	100	Do.....	KWG	1,200 (250)	100
Jerome.....	KCRJ	1,310 (229)	100	Westminster ⁷	KPWF	1,490 (201.3)	100
Phoenix.....	KOY	1,390 (215.8)	500	Colorado:			
Do.....	KTAR	620 (484)	1,500	Belleview.....	KPOF	880 (341)	500
Prescott.....	KPJM	1,500 (200)	100	C o l o r a d o			
Tucson.....	KGAR	1,370 (210)	100	Spring.....	KFUM	1,270 (236.2)	1,000
Do.....	KVOA	1,260 (238.1)	250	Denver.....	KFEL	920 (326)	500
Arkansas:				Do.....	KFUP	1,310 (229)	100
Blytheville.....	KLCN	1,290 (232.6)	50	Do.....	KFXF	920 (326)	500
Fayetteville.....	KUOA	1,390 (215.8)	1,000	Do.....	KOA	830 (361)	12,500
Hot Springs.....	KTHS	1,040 (288.5)	10,000	Do.....	KLZ	860 (339)	1,000
Little Rock.....	KGHI	1,200 (250)	100	Edgewater.....	KFXJ	1,310 (229)	50
Do.....	KGJF	890 (337)	250	Fort Morgan.....	KGW	1,200 (250)	100
Do.....	KLHA	1,390 (215.8)	1,000	Greeley.....	KFKA	880 (341)	1,500
Paragould.....	KBTM	1,200 (250)	100	Gunnison.....	KFHA	1,200 (250)	50
Siloam Springs.....	KFPW	1,340 (223.9)	50	Pueblo.....	KGHF	1,320 (227.3)	1,250
California:				Trinidad.....	KGIW	1,420 (211.3)	100
Alma (Holy City).....	KFQU	1,420 (211.3)	100	Yuma.....	KGEK	1,200 (250)	50
Beverly Hills.....	KMPC	710 (423)	500	Connecticut:			
Berkeley.....	KRE	1,370 (219)	100	Avon ⁹	WTIC	1,060 (283)	1025,000
Burbank.....	KELW	780 (385)	500	Easton ¹²	WTCC	1,190 (252.1)	500
El Centro.....	KXO	1,200 (250)	100	Mansfield.....	WCAC	600 (500)	250
Culver City.....	KFVD	1,000 (300)	250	New Haven.....	WDRC	1,330 (225.6)	500
Fresno.....	KMJ	1,210 (247.9)	100	Delaware:			
Hayward.....	KZM	1,370 (219)	100	Wilmington.....	WDEL	1,120 (267.9)	1,250
Hollywood.....	KFWB	950 (316)	1,000	Do.....	WILM	1,420 (211.3)	350
Inglwood.....	KMIC	1,120 (267.9)	500	District of Columbia:			
Long Beach.....	KFOX	1,250 (240)	1,000	Washington.....	WMAL	630 (476)	1,250
Do.....	KGER	1,360 (220.6)	1,000	Do.....	WOL	1,310 (229)	250
Los Angeles.....	KECA	1,430 (209.8)	1,000	Do.....	WRC	950 (316)	500
Do.....	KFI	640 (469)	5,000	Florida:			
Do.....	KFSG	1,120 (267.9)	500	Clearwater.....	WSUN	620 (484)	1,100
Do.....	KGEF	1,300 (230.8)	1,000	Gainesville.....	WRUF	830 (361)	2,500
Do.....	KGJF	1,200 (250)	100	Jacksonville.....	WJAX	900 (333)	5,000
Do.....	KIJ	900 (333)	1,000	Do.....	WMBF	1,300 (230.8)	1,000
Do.....	KMTB	570 (525)	500	Do.....	WQAM	560 (536)	1,000
Do.....	KNX	1,050 (285.7)	5,000	Orlando.....	WDBO	1,120 (267.9)	1,500
Do.....	KTBI	1,300 (230.8)	1,000	Pensacola.....	WCOA	1,340 (223.9)	500
Oakland.....	KGO	790 (380)	7,500	St. Petersburg.....	WSUN	620 (484)	1,000
Do.....	KLS	1,440 (208.3)	250	Tampa.....	WDAE	1,220 (245.9)	2,500
Do.....	KLX	880 (341)	500	Do.....	WMBR	1,370 (219)	1,000
Do.....	KTAB	560 (536)	1,500	Georgia:			
Pasadena.....	KPPC	1,210 (247.9)	50	Atlanta.....	WATL	1,300 (230.8)	1,000
Do.....	KPSN	1,360 (220.6)	1,000	Do.....	WPCB	1,300 (230.8)	1,000
Richmond ⁶	KROW	930 (323)	1,500	Do.....	WQAM	560 (536)	1,000
Sacramento.....	KFBK	1,310 (229)	100	Do.....	WQAM	560 (536)	1,000
San Bernardino.....	KFBK	1,210 (247.9)	100	Do.....	WQAM	560 (536)	1,000
San Diego.....	KGB	1,330 (225.6)	250	Do.....	WQAM	560 (536)	1,000
Do.....	KFSD	600 (500)	1,500	Do.....	WQAM	560 (536)	1,000

See footnotes on p. 169.

BROADCASTING STATIONS, ALPHABETICALLY BY STATES AND CITIES—Continued

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)
Georgia:				Indiana—Contd.			
Atlanta.....	WGST	890 (337)	{ 1 250 2 500	Evansville.....	WGBF	630 (476)	500
Do.....	WSB	740 (405)	5,000	Fort Wayne.....	WGL	1,370 (219)	100
Augusta.....	WRDW	1,500 (200)	100	Do.....	WOVO	1,160 (258.6)	10,000
Columbus.....	WRBL	1,200 (250)	50	Gary.....	WJKS	1,360 (220.6)	{ 1,000 2 1,250
Macon.....	WMAZ	890 (337)	{ 1 250 2 500	Hammond.....	WWAE	1,200 (250)	100
Rome.....	WFV	1,370 (219)	100	Indianapolis.....	WFBM	1,230 (243.9)	1,000
Savannah.....	WTOC	1,230 (238.1)	500	Laporte.....	WRAF	1,200 (250)	100
Thomasville.....	WQDX	1,210 (247.9)	50	Marion.....	WJAK	1,310 (229)	50
Tifton.....	WRBI	1,310 (229)	20	Muncie.....	WLBC	1,310 (229)	50
Toccoa.....	WTFI	1,450 (206.9)	500	South Bend.....	WSBT	1,230 (243.9)	500
Hawaii:				Terre Haute.....	WBOW	1,310 (229)	100
Honolulu.....	KGMB	1,320 (227.3)	500	West Lafayette.....	WBAA	1,400 (214.3)	500
Do.....	KGU	940 (319)	1,000	Iowa:			
Idaho:				Ames.....	WOI	640 (469)	{ 10 3,500 11 5,000
Boise.....	KIDO	1,250 (240)	1,000	Boone.....	KFGQ	1,310 (229)	100
Idaho Falls.....	KID	1,320 (227.3)	{ 1 250 2 500	Cedar Rapids.....	KWCR	1,310 (229)	100
Nampa.....	KFXD	1,420 (211.3)	50	Clarinda.....	KSO	1,380 (217.4)	500
Pocatello.....	KSEI	900 (333)	250	Council Bluffs.....	KOIL	1,260 (238.1)	1,000
Sandpoint.....	KGKX	1,420 (211.3)	100	Davenport.....	WOC	1,000 (300)	5,000
Twin Falls.....	KGIQ	1,320 (227.3)	250	Decorah.....	KGCA	1,270 (236.2)	50
Illinois:				Do.....	KWLC	1,270 (236.2)	100
Addison 13.....	WMAQ	670 (448)	5,000	Des Moines.....	WIJO	1,000 (300)	5,000
Do 13.....	WMBI	1,080 (277.8)	5,000	Fort Dodge.....	KFJY	1,310 (229)	100
Batavia 13.....	WORD	1,490 (201.3)	5,000	Iowa City.....	WSUI	880 (341)	500
Bloomington 13.....	{ KFKX KYW }	{ 1,020 (294.1)	10,000	Marshalltown.....	KFJB	1,200 (250)	{ 1 100 2 250
Carthage.....	WCAZ	1,070 (280.4)	50	Muscatine.....	KTNT	1,170 (256.4)	{ 11 1,000 10 5,000
Chicago.....	WAAF	920 (326)	500	Ottumwa.....	WIAS	1,420 (211.3)	100
Do.....	WCFL	970 (309)	1,500	Red Oak.....	KICK	1,420 (211.3)	100
Do.....	WCRW	1,210 (247.9)	100	Shenandoah.....	KFNF	890 (337)	{ 1 500 2 1,000
Do.....	WEDC	1,210 (247.9)	100	Do.....	KMA	930 (323)	{ 1 500 2 1,000
Do.....	WGES	1,360 (220.6)	{ 10 500 11 1,000	Sioux City.....	KSCJ	1,330 (225.6)	{ 1 1,000 2 2,500
Do.....	WKBI	1,420 (211.3)	50	Waterloo.....	WMT	600 (500)	{ 10 250 11 500
Do.....	WPCC	560 (536)	500	Kansas:			
Do.....	WSBC	1,210 (247.9)	100	Dodge City.....	KGNO	1,210 (247.9)	100
Cicero.....	WEHS	1,420 (211.3)	100	Kansas City.....	WLBF	1,420 (211.3)	100
Do.....	WHFC	1,420 (211.3)	100	Lawrence.....	KFKU	1,220 (245.9)	{ 10 500 11 1,000
Crete 13.....	WLS	870 (345)	5,000	Do.....	WREN	1,220 (245.9)	100
Decatur.....	WJBL	1,200 (250)	100	Manhattan.....	KSAC	580 (517)	{ 1 500 2 1,000
Deerfield 13.....	WCHI	1,490 (201.3)	5,000	Millford.....	KFKB	1,050 (285.7)	5,000
Desplains 13.....	WIBO	560 (536)	{ 1 1,000 2 1,500	Topeka.....	WIBW	580 (517)	{ 1 500 2 1,000
Downers Grove 13.....	{ WBCN WBRB }	{ 870 (345)	{ 10 25,000 11 50,000	Wichita.....	KFH	1,300 (230.8)	1,000
Elgin 13.....	WGN	720 (417)	25,000	Kentucky:			
Galesburg.....	WLIB	720 (417)	25,000	Covington.....	WCKY	1,490 (201.3)	5,000
Glenview 13.....	WKBS	1,310 (229)	100	Hopkinsville.....	WFIW	940 (319)	1,000
Harrisburg.....	WBBM	770 (390)	25,000	Jeffersonton 16.....	WHAS	820 (366)	10,000
Joliet.....	WEBQ	1,210 (247.9)	100	Louisville.....	WLAP	1,200 (250)	30
Do.....	WCLS	1,310 (229)	100	Paducah.....	WPAD	1,420 (211.3)	100
Do.....	WKBB	1,310 (229)	100	Louisiana:			
La Salle.....	WJCB	1,200 (250)	100	Kennerwood 17.....	KWKH	850 (353)	10,000
Moosheart.....	WJJD	1,130 (265.5)	20,000	Menroe.....	KMLB	1,200 (250)	50
Mount Prospect.....	WJAZ	1,490 (201.3)	5,000	New Orleans.....	WABZ	1,200 (250)	100
Peoria Heights.....	WMBD	1,440 (208.3)	{ 1 500 2 1,000	Do.....	WDSU	1,250 (240)	1,000
Quincy.....	WTAD	1,440 (208.3)	500	Do.....	WJBO	1,420 (211.3)	100
Rockford.....	KFLV	1,410 (212.8)	500	Do.....	WJBW	1,200 (250)	30
Rock Island.....	WHBF	1,210 (247.9)	100	Do.....	WSMB	1,320 (227.3)	500
Springfield.....	WCBS	1,210 (247.9)	100	Do.....	WWL	850 (353)	5,000
Sireator.....	WTAX	1,210 (247.9)	50	Shreveport.....	KRMD	1,310 (229)	50
Tuscola.....	WDZ	1,070 (280.4)	100	Do.....	KTBS	1,450 (206.9)	1,000
Urbana.....	WILL	890 (337)	{ 1 250 2 500	Do.....	KTSL	1,310 (229)	100
Zion.....	WCBD	1,080 (277.8)	5,000	Do.....	KWEA	1,210 (247.9)	100
Indiana:				Maine:			
Anderson.....	WHBU	1,210 (247.9)	100	Augusta.....	WRDO	1,370 (219)	100
Clearmont.....	WKBF	1,400 (214.3)	500	Bangor.....	WABI	1,200 (250)	100
Connersville.....	WKBV	1,500 (200)	{ 1 100 2 150	Do.....	WLBZ	620 (484)	500
Culver.....	WCMA	1,400 (214.3)	500	Scarboro 15.....	WCSH	940 (319)	1,000

See footnotes on p. 169.

BROADCASTING STATIONS, ALPHABETICALLY BY STATES AND CITIES—Continued

Location of transmitter	Call signal	Frequency in kilocycles (meter in parentheses)	Power (watts in antenna)	Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
Maryland:				Missouri—Con.			
Baltimore.....	WCAO	600 (500)	250	Independence ²⁶	KMBC	950 (316)	1,000
Do.....	WCBM	1,370 (219)	1,100	Jefferson City..	WOS	630 (476)	500
Do.....	WFBR	1,270 (236.2)	250	Joplin.....	WMBH	1,420 (211.3)	1,100
Cumberland.....	WTBO	1,420 (211.3)	100	Kansas City....	KWKV	1,370 (219)	100
Glen Morris ¹⁹ ..	WBAL	1,060 (283)	10,000	Do.....	WDAF	610 (492)	1,000
Massachusetts:				North Kansas	WHB	860 (349)	500
Auburn ²⁰	WORC	1,200 (250)	100	City.....			
Boston.....	WBBS	1,500 (200)	50	Kansas City....	WQQ	1,300 (230.8)	1,000
Do.....	WBZA	990 (303)	500	Kirkwood.....	KMOX	1,090 (275.2)	5,000
Do.....	WSSH	1,410 (212.8)	500	St. Joseph.....	KFEQ	680 (441)	2,500
Chelsea ²¹	WLOE	1,500 (200)	1,100	Do.....	KGBX	1,310 (220)	100
Dartmouth.....	WMAF	1,410 (212.8)	500	St. Louis.....	KFWF	1,200 (250)	100
Fall River.....	WSAR	1,450 (206.9)	250	Do.....	KSD	550 (515)	500
Gloucester.....	WHDH	830 (361)	1,000	Do.....	KWK	1,350 (222.2)	1,000
Lexington.....	WLEX	1,410 (212.8)	500	Do.....	WEW	760 (395)	1,000
Do.....	WLEY	1,370 (219)	1,100	Do.....	WIL	1,200 (250)	1,100
New Bedford...	WNBH	1,310 (229)	100	Do.....	WMAY	1,200 (250)	2,250
Quincy ²¹	WNAC	1,230 (243.9)	1,000	Montana:			
Springfield....	WBZ	990 (303)	15,000	Billings.....	KGHL	950 (316)	500
Wellesley Hills.	WBOS	920 (326)	250	Butte.....	KGIR	1,300 (220.6)	500
Weymouth ²¹ ..	WEEI	590 (509)	1,000	Great Falls....	KFBB	1,280 (234.4)	2,500
Worcester.....	WTAG	580 (517)	250	Kalispell.....	KGEZ	1,310 (229)	100
Michigan:				Wolf Point.....	KGCX	1,310 (229)	1,100
Battle Creek...	WELL	1,420 (211.3)	50	Nebraska:			
Bay City.....	WBCM	1,410 (212.8)	500	Clay Center....	KMMJ	740 (405)	1,000
Berrien Springs	WEMC	590 (569)	1,000	Lincoln.....	KFAB	770 (390)	5,000
Calumet.....	WHDF	1,370 (219)	1,100	Do.....	KFOR	1,210 (247.9)	1,100
Detroit.....	WJR	750 (400)	5,000	Do.....	WCAJ	590 (509)	500
Do.....	WMBG	1,420 (211.3)	1,100	Norfolk.....	WJAG	1,060 (283)	1,000
Do.....	WWJ	920 (326)	1,000	North Platte...	KGNF	1,430 (209.8)	2,500
Do.....	WXYZ	1,240 (241.9)	1,000	Omaha.....	WAAW	660 (455)	500
East Lansing...	WKAR	1,040 (283.5)	1,000	Do.....	WOW	590 (509)	1,000
Flint.....	WFDF	1,310 (229)	100	Ravena.....	KGFW	1,310 (229)	100
Furnwood ²² ..	WOOD	1,270 (236.2)	500	Scottsbluff....	KGKY	1,500 (200)	100
Grand Rapids...	WASH	1,270 (236.2)	500	York.....	KGZB	930 (323)	1,500
Jackson.....	WJBM	1,370 (219)	100	Nevada:			
Lapeer.....	WMPC	1,500 (200)	100	Las Vegas.....	KGIX	1,420 (211.3)	100
Ludington.....	WKBZ	1,500 (200)	50	Reno.....	KOH	1,370 (219)	100
Royal Oak.....	WAGM	1,310 (229)	50	New Hampshire:			
Ypsilanti.....	WJBK	1,370 (219)	50	Laconia.....	WKAV	1,310 (229)	100
Minnesota:				New Jersey:			
Fergus Falls...	KGDE	1,200 (250)	1,100	Asbury Park...	WCAP	1,280 (234.4)	500
Do.....			2,250	Atlantic City..	WPG	1,100 (272.7)	5,000
Fridley ²³	WRHM	1,250 (240)	1,000	Bound Brook ²⁵ .	WJZ	760 (395)	10,250,000
Minneapolis...	WDGY	1,180 (254.2)	1,000	Camden.....	WCAM	1,280 (234.4)	500
Do.....	WHDI	1,180 (254.2)	500	Carlstadt ²⁵ ..	WHAP	1,300 (230.8)	1,000
Moorhead.....	KGFK	1,500 (200)	50	Cliffside ²⁵ ..	WCDA	1,350 (222.2)	250
Northfield....	KFMX	1,250 (240)	1,000	Do ²⁵	WPAP	1,010 (297)	250
Do.....	WCAL	1,250 (240)	1,000	Do ²⁵	WQAO	1,010 (297)	250
Anoka (St. Paul-Minneapolis) ²³ .	WCCO	810 (370)	7,500	Coytesville ²⁵ .	WRNY	1,010 (297)	250
St. Paul.....	WLB	1,250 (240)	1,000	Haekensack...	WBMS	1,450 (206.9)	250
Do.....	WGMS	1,250 (240)	1,000	Hoboken ²⁵ ..	WMCA	570 (526)	500
Westcott ²⁴ ..	KSTP	1,460 (205.5)	10,000	Do.....	WPCH	810 (370)	500
Mississippi:				Do.....	WAAT	940 (319)	300
Greenville....	WRBQ	1,210 (247.9)	100	Jersey City...	WHOM	1,450 (206.9)	250
Hattiesburg...	WRBJ	1,370 (219)	10	Do.....	WKBO	1,450 (206.9)	250
Jackson.....	WJDX	1,270 (236.2)	1,500	Kearny ²⁵	WLWL	1,100 (272.7)	5,000
Do.....			2,000	Do.....	WOR	710 (423)	5,000
Meridian.....	WCOC	880 (341)	1,000	Newark.....	WAAM	1,250 (240)	1,000
Mississippi	WGCM	1,210 (247.9)	100	Do.....	WGCP	1,250 (240)	2,250
City ²⁵			1,000	Do.....	WNJ	1,450 (206.9)	250
Tupelo.....	WQDV	1,500 (200)	100	Paterson.....	WODA	1,250 (240)	1,000
Viicksburg....	WQBC	1,360 (220.6)	300	Red Bank.....	WJBI	1,210 (247.9)	100
Missouri:				Secaucus ²⁵ ..	WOV	1,130 (265.5)	1,000
Cape Girardeau	KFVS	1,210 (247.9)	100	Tranton.....	WOAX	1,280 (234.4)	500
Do.....			1,500	New Mexico:			
Clayton.....	KFUO	550 (545)	2,000	Albuquerque...	KGGM	1,230 (243.9)	1,250
Columbia.....	KFRU	630 (476)	500	Raton.....	KGFL	1,370 (219)	50
Grant City....	KGIZ	1,500 (200)	50	State College...	KOB	1,180 (254.2)	20,000

See footnotes on p. 169.

BROADCASTING STATIONS, ALPHABETICALLY BY STATES AND CITIES—Continued

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:				Ohio—Contd.			
Amherst ³⁰	WGR	550 (545)	1,000	Cleveland.....	WHK	1,390 (215.8)	1,000
Do ³⁰	WKBW	1,480 (202.7)	5,000	Do.....	WJAY	610 (492)	500
Astoria ²⁵	WGBS	600 (500)	1,250	Columbus.....	WAIU	640 (469)	500
Auburn.....	WMBO	1,310 (229)	2,500	Do.....	WCAH	1,430 (209.8)	500
Bellmore ²⁸	WEAF	660 (455)	100	Do.....	WEAO	570 (526)	750
Binghamton.....	WNBF	1,500 (200)	100	Do.....	WMAN	1,210 (247.9)	50
Brooklyn.....	WBBC	1,400 (214.3)	500	Dayton.....	WSMK	1,380 (217.4)	200
Do.....	WCGU	1,400 (214.3)	500	Hamilton.....	WRK	1,310 (229)	100
Do.....	WLTH	1,400 (214.3)	500	Mansfield.....	WJW	1,210 (247.9)	100
Do.....	WMBQ	1,500 (200)	100	Mason ³⁵	WLW	700 (429)	10 25,000
Do.....	WSDA	1,400 (214.3)	500	Do.....	WSAI	1,330 (225.6)	500
Do.....	WSGH	1,400 (214.3)	500	Mount Orab.....	WHBD	1,370 (219)	100
Buffalo.....	WFBR	1,310 (229)	1,100	Springfield.....	WCSO	1,450 (206.9)	500
Do.....	WSVS	1,370 (219)	2,200	Steubenville.....	WIBR	1,420 (211.3)	50
Canton.....	WCAD	1,220 (245.9)	50	Tallmadge.....	WADC	1,320 (227.3)	1,000
Cazenovia.....	WMAC	570 (526)	50	Toledo.....	WSPD	1,340 (223.9)	1,500
Forest Hills ²⁵	WEVD	1,300 (230.8)	250	Youngstown.....	WKBN	570 (526)	2,100
Freeport.....	WGBB	1,210 (247.9)	500	Zanesville.....	WALR	1,210 (247.9)	500
Glens Falls.....	WBGF	1,370 (210)	100	Oklahoma:			
Grand Island ²⁹	WMAK	1,040 (288.5)	50	Alva.....	KGFF	1,420 (211.3)	100
Greenville ³¹	WCOH	1,210 (247.9)	1,000	Chickasha.....	KOCW	1,400 (214.3)	1,250
Ithaca.....	WEAI	1,270 (236.2)	100	Elk City.....	KGMP	1,210 (247.9)	2,500
Do.....	WLCI	1,210 (247.9)	11 1,000	Enid.....	KCRC	1,370 (219)	100
Jamaica.....	WMJF	1,210 (247.9)	50	Norman.....	WNAD	1,010 (297)	250
Jamestown.....	WOCJ	1,210 (247.9)	10	Oklahoma City.....	KFFJ	1,480 (202.7)	500
Long Beach.....	WCLB	1,500 (200)	25	Do.....	KFXR	1,310 (229)	1,100
Long Island City.....	WLBX	1,500 (200)	100	Do.....	KGFG	1,370 (219)	250
Martinsville ³⁰	WBEN	900 (333)	100	Do.....	WKY	900 (333)	1,000
Mt. Beacon ³²	WOKO	1,440 (208.3)	750	Picher.....	KGGF	1,010 (297)	500
New York.....	WABC	860 (349)	500	Ponca City.....	WBBZ	1,200 (250)	100
Do.....	WBOQ	1,350 (222.2)	5,000	Tulsa.....	KVOO	1,140 (263.2)	500
Do.....	WBNY	1,010 (297)	250	Oregon:			
Do.....	WHN	1,010 (297)	250	Astoria.....	KFJI	1,370 (219)	100
Do.....	WKBQ	1,350 (222.2)	250	Corvallis.....	KOAC	550 (545)	1,000
Do.....	WMSG	1,350 (222.2)	250	Eugene.....	KORE	1,420 (211.3)	100
Do.....	WNYC	570 (526)	250	Marshfield.....	KOOS	1,370 (219)	100
Patchogue.....	WPOE	1,370 (219)	500	Medford.....	KMED	1,310 (229)	50
Rochester.....	WABO	1,440 (208.3)	100	Portland.....	KBPS	1,420 (211.3)	100
Do.....	WHEC	1,440 (208.3)	500	Do.....	KEX	1,180 (254.2)	5,000
Rossville.....	WBRR	1,300 (230.8)	100	Do.....	KFJR	1,300 (230.8)	500
Saranac Lake.....	WNBZ	1,290 (232.6)	1,000	Do.....	KGW	620 (484)	1,000
Schenectady.....	WGY	790 (380)	50	Do.....	KOIN	940 (319)	1,000
Syracuse.....	WFBL	1,360 (220.6)	50,000	Do.....	KTBR	1,300 (230.8)	500
Do.....	WSYR	1,570 (524)	1,000	Do.....	KWJJ	1,060 (283)	500
Troy.....	WHAZ	1,300 (230.8)	250	Do.....	KXL	1,420 (211.3)	100
Tupper Lake.....	WHDL	1,420 (211.3)	500	Pennsylvania:			
Utica.....	WIBX	1,200 (250)	10	Allentown.....	WCBA	1,440 (208.3)	250
Victor ³³	WHAM	1,150 (260.9)	100	Do.....	WSAN	1,440 (208.3)	200
Woodside.....	WWRL	1,500 (200)	1,100	Altoona.....	WFBG	1,310 (229)	150
North Carolina:				Carbondale.....	WNBW	1,200 (250)	10
Asheville.....	WWNC	570 (526)	500	Elkins Park.....	WIBG	930 (323)	30
Charlotte.....	WBT	1,080 (277.8)	1,000	Erie.....	WEDH	1,420 (211.3)	2,500
Gastonia.....	WRBU	1,210 (247.9)	5,000	Grove City.....	WSAJ	1,310 (229)	100
Greensboro.....	WNRC	1,440 (208.3)	100	Harrisburg.....	WBAK	1,430 (209.8)	1,500
Raleigh.....	WPTF	680 (441)	500	Do.....	WCOD	1,200 (250)	100
Wilmington.....	WRBT	1,370 (219)	1,000	Johnstown.....	WJAC	1,310 (229)	100
Winston-Salem.....	WSJS	1,310 (229)	100	Lancaster.....	WGAL	1,310 (229)	100
North Dakota:				Do.....	WKJC	1,200 (250)	100
Bismarck.....	KFYR	550 (545)	500	Do.....	WHP	1,430 (209.8)	500
Devils Lake.....	KDLR	1,210 (247.9)	100	Do.....	WJBU	1,210 (247.9)	100
Grand Forks.....	KFLM	1,370 (219)	100	Lewisburg.....	WJBU	1,210 (247.9)	100
Mandan.....	KGCU	1,200 (250)	100	North Fayette ³⁷	WJAS	1,290 (232.6)	1,000
Minot.....	KLPM	1,420 (211.3)	100	Oil City.....	WLBW	1,260 (238.1)	1,500
West Fargo.....	WDAY	940 (319)	100	Philadelphia.....	WCAU	1,170 (256.4)	10,000
Ohio:				Do.....	WELK	1,370 (219)	1,100
Akron.....	WFJC	1,450 (206.9)	500	Do.....	WFAN	610 (492)	2,250
Brecksville ³⁴	WTAM	1,070 (280.4)	10 25,000	Do.....	WFI	560 (536)	500
Canton.....	WHBC	1,200 (250)	100	Do.....	WFKD	1,310 (229)	50
Cincinnati.....	WFBE	1,200 (250)	1,100	Do.....	WHAT	1,310 (229)	100
Do.....	WKRC	550 (545)	2,250	Do.....	WIP	610 (492)	500
			10 500	Do.....	WLIT	560 (536)	500
			11 1,000				

See footnotes on p. 169.

BROADCASTING STATIONS, ALPHABETICALLY BY STATES AND CITIES—Continued

Location of transmitter	Call signal	Frequency in kilocycles (meter in parentheses)	Power (watts in antenna)	Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
Pennsylvania—Continued.				Texas:			
Philadelphia.....	WPEN	1,500 (200)	{ 1 100 2 250	Abilene.....	KFYO	1,420 (211.3)	{ 1 100 2 250
Do.....	WRAX	1,020 (294.1)	250	Amarillo.....	KGRS	1,410 (212.8)	1,000
Pittsburgh.....	KQV	1,380 (217.4)	500	Do.....	WDAG	1,410 (212.8)	250
Do.....	WCAE	1,220 (245.9)	{ 10 500 11 1,000	Austin.....	KUT	1,500 (200)	100
Plains ³⁵	WBA X	1,210 (247.9)	100	Beaumont.....	KFDM	560 (53 ¹)	{ 1 500 2 1,000
Reading.....	WRA W	1,310 (229)	50	Birdville ⁴²	KTAT	1,240 (241.9)	1,000
Seranton.....	WGBI	880 (341)	250	Brownsville.....	KVWG	1,260 (238.1)	500
Do.....	WQAN	880 (341)	250	Brownwood.....	KGKB	1,500 (200)	100
State College.....	WPSC	1,230 (243.9)	500	College Station.....	WTA W	1,120 (267.9)	500
Washington.....	WNBO	1,200 (250)	100	Corpus Christi.....	KGFI	1,500 (200)	100
Wilkes Barre.....	WBRE	1,310 (229)	100	Dallas.....	KRLD	1,040 (288.5)	10,000
Wilkesburg ³⁷	KDKA	980 (306)	{ 10 25,000 11 50,000	Do.....	WRB	1,250 (234.4)	500
Do.....	WMBJ	1,500 (200)	100	Dublin.....	KPFL	1,310 (229)	100
Williamsport.....	WRAK	1,370 (219)	50	El Paso.....	KTSM	1,310 (229)	100
Philippines:				Do.....	WDAH	1,310 (229)	100
Cebu.....	KZRC	1,300 (230.8)	(³⁹)	Fort Worth.....	KFJZ	1,370 (219)	100
Manila.....	KZIB	1,153 (269)	20	Galveston.....	KFLX	1,370 (219)	100
Do.....	KZKZ	1,100 (270.1)	100	Do.....	KFUL	1,290 (232.6)	500
Do.....	KZRM	{ 726 (413) 6,130 (48.94) 9,570 (31.35)	1,000	Grapevine ⁴³	WBAP	800 (375)	10,000
Porto Rico:				Do ⁴⁴	WFAA	800 (375)	{ 1025,000 1150,000
San Juan.....	WKAQ	890 (337)	500	Greenville.....	KFPM	1,310 (229)	15
Rhode Island:				Harlingen.....	KRGV	1,260 (238.1)	500
Cranston ⁴⁰	{ WDFW WLSI	{ 1,210 (247.9)	100	Houston.....	KTLC	1,310 (229)	100
Newport.....	WMBB	1,500 (200)	100	Do.....	KTRH	1,120 (267.9)	500
Pawtucket.....	WPAW	1,210 (247.9)	100	Do.....	KTUE	1,420 (211.3)	100
Providence.....	WEAN	780 (385)	{ 1 250 2 500	San Antonio.....	KGCI	1,370 (219)	100
Do.....	WJAR	89 (337)	{ 1 250 2 400	Do.....	KONO	1,370 (219)	100
South Carolina:				Do.....	KTAP	1,420 (211.3)	100
Charleston.....	WCSC	1,310 (229)	{ 1 100 2 250	Do.....	KTSA	1,290 (232.6)	{ 1 1,000 2 2,000
Columbia.....	WIS	1,010 (297)	{ 1 500 2 1,000	Do.....	WOAI	1,190 (252.1)	5,000
Spartanburg.....	WSPA	1,420 (211.3)	{ 1 100 2 250	San Angelo.....	KGKL	1,370 (219)	100
South Dakota:				Sugarland ⁴⁵	KPRC	920 (326)	{ 1 1,000 2 2,500
Brookings.....	KFDY	550 (545)	{ 1 500 2 1,000	Waco.....	WACO	1,240 (241.9)	1,060
Mitchell.....	KGDA	1,370 (219)	100	Wichita Falls.....	KGKO	570 (526)	{ 1 250 2 500
Oldham.....	KGDY	1,200 (250)	15	Utah:			
Pierr.....	KGFX	580 (517)	200	Ogden.....	KLO	1,400 (214.3)	500
Rapid City.....	WCAT	1,200 (250)	100	Salt Lake City.....	KDYL	1,290 (232.6)	1,000
Sioux Falls.....	KSOO	1,110 (270.3)	2,000	Do.....	KSL	1,130 (265.5)	5,000
Vermillion.....	KUSD	890 (337)	{ 1 500 2 750	Vermont:			
Watertown.....	KGCR	1,210 (247.9)	100	Burlington.....	WCAX	1,200 (250)	100
Yankton.....	WNAX	570 (526)	1,000	St. Albans.....	WQDM	1,370 (219)	5
Tennessee:				Springfield.....	WNBX	1,200 (250)	10
Bartlett ⁴¹	WMC	780 (385)	{ 1 500 2 1,000	Virginia:			
Brainerd ⁴²	WDOD	1,280 (234.4)	{ 1 1,000 2 2,500	Arlington.....	NAA	690 (435)	1,000
Bristol.....	WOPI	1,500 (200)	100	Danville.....	WBTM	1,370 (219)	100
Knoxville.....	WFBC	1,200 (250)	50	Emory.....	WEHC	1,200 (250)	{ 1 100 2 250
Do.....	WNBK	1,310 (229)	50	Etrick ⁴⁶	WLBG	1,200 (250)	{ 1 100 2 250
Do.....	WNOX	560 (535)	{ 1 1,000 2 2,000	Mechanics-			
Memphis.....	WGBC	1,430 (209.8)	500	ville ⁴⁷	WRVA	1,110 (270.3)	5,000
Do.....	WHBQ	1,370 (219)	100	Lynchburg.....	WLVA	1,370 (219)	100
Do.....	WNBR	1,430 (209.8)	500	Mount Vernon.....			
Nashville.....	WLAC	1,470 (204.1)	5,000	Hills ⁴⁸	WJSV	1,460 (205.5)	10,000
Do.....	WSM	650 (462)	5,000	Newport News.....	WGH	1,310 (229)	100
Do.....	WTNT	1,470 (204.1)	5,000	Do.....	{ WPOR WTAR	{ 780 (385)	500
Springfield.....	WSIX	1,210 (247.9)	100	Richmond.....	WBBL	1,210 (247.9)	100
Union City.....	WOBT	1,310 (229)	{ 1 100 2 250	Do.....	WNBG	1,210 (247.9)	100
Whitehaven ⁴¹	{ WREC WOAN	600 (590)	{ 1 500 2 1,000	Roanoke.....	WDBJ	930 (323)	{ 1 250 2 500
				Do.....	WRBX	1,410 (212.8)	250
				Washington:			
				Aberdeen.....	KXRO	1,310 (229)	75
				Bellingham.....	KVOS	1,200 (250)	100
				Des Moines ⁴²	KVI	760 (395)	1,000
				Everett.....	KFBL	1,370 (219)	50
				Lacey.....	KGY	1,200 (250)	100
				Longview.....	KUJ	1,500 (200)	10
				Pullman.....	KWSC	1,220 (245.9)	100
				Seattle.....	KPQW	1,420 (211.3)	500

See footnotes on p. 169.

BROADCASTING STATIONS, ALPHABETICALLY BY STATES AND CITIES—Continued

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)
Washington—Continued.				Wisconsin:			
Seattle.....	KJR	976 (309)	5,000	Beloit.....	WISJ	560 (536)	500
Do.....	KOL	1,270 (236.2)	1,000	Brookfield ⁴⁰	WTMJ	620 (484)	{ 1,000 2,500
Do.....	KOMO	920 (326)	1,000	Eau Claire.....	WTAQ	1,330 (225.6)	1,000
Do.....	KPCB	650 (462)	160	Fond du Lac.....	KFIZ	1,420 (211.3)	100
Do.....	KRSC	1,120 (267.9)	50	Kenosha.....	WCLO	1,200 (250)	100
Do.....	KTW	1,270 (236.2)	1,000	La Crosse.....	WKBH	1,380 (217.4)	1,000
Do.....	KVL	1,370 (219)	100	Madison.....	WHA	940 (319)	750
Do.....	KXA	570 (524)	500	Do.....	WIBA	1,210 (247.9)	100
Spokane.....	KFO	1,120 (267.9)	100	Manitowoc.....	WOMT	1,210 (247.9)	100
Do.....	KFPY	1,340 (223.9)	1,000	Milwaukee.....	WHAD	1,120 (267.9)	250
Do.....	KGA	1,470 (204.1)	5,000	Do.....	WISN	1,120 (267.9)	250
Do.....	KHIQ	590 (509)	{ 1,000 2,000 2,500	Poynette.....	WIBU	1,310 (229)	100
Tacoma.....	KMO	860 (349)	{ 2,000 1,000	Racine.....	WRJN	1,370 (219)	100
Yakima.....	KIT	1,310 (229)	50	Sheboygan.....	WHBL	1,410 (212.8)	500
Wenatchee.....	KPQ	1,500 (200)	50	Stevens Point.....	WLBL	900 (333)	2,000
West Virginia:				Superior.....	WBCB	1,290 (232.6)	{ 1,000 2,500
Bluefield.....	WHHS	1,420 (211.3)	100	West De Pere.....	WHBY	1,200 (250)	100
Charleston.....	WOBU	580 (517)	{ 1,250 2,500	Wyoming:			
Fairmont.....	WMMN	890 (337)	2,500	Casper.....	KDFN	1,210 (247.9)	100
Huntington.....	WSAZ	580 (517)	250				
Wheeling.....	WWVA	1,160 (258.6)	5,000				

- 1 Night.
- 2 Day.
- 3 Studio in Mobile.
- 4 Studio in San Francisco.
- 5 Day experimentally.
- 6 Studio in Oakland.
- 7 Only construction permit issued.
- 8 Night experimentally.
- 9 Studio in Hartford.
- 10 Normally.
- 11 Experimentally.
- 12 Studio in Bridgeport.
- 13 Studio in Chicago.
- 14 When WCAU is operating.
- 15 When using WREN transmitter.
- 16 Studio in Louisville.
- 17 Studio in Shreveport.
- 18 Studio in Portland.
- 19 Studio in Baltimore.
- 20 Studio in Worcester.
- 21 Studio in Boston.
- 22 Studio in Grand Rapids.
- 23 Studio in Minneapolis.
- 24 Studio in St. Paul.
- 25 Studio in Gulfport.

- 26 Studio in Kansas City, Mo.
- 27 Operates only during daytime.
- 28 Studio in New York City.
- 29 Studio in Newark.
- 30 Studio in Buffalo.
- 31 Studio in Yonkers.
- 32 Studio in Poughkeepsie.
- 33 Studio in Rochester.
- 34 Studio in Cleveland.
- 35 Studio in Cincinnati.
- 36 Studio in Harrisburg.
- 37 Studio in Pittsburgh.
- 38 Studio in Wilkes-Barre.
- 39 Power, 36/5 meter amperes.
- 40 Studio in Providence.
- 41 Studio in Memphis.
- 42 Studio in Chattanooga.
- 43 Studio in Fort Worth.
- 44 Studio in Dallas.
- 45 Studio in Houston.
- 46 Studio in Petersburg.
- 47 Studio in Richmond.
- 48 Studio in Alexandria.
- 49 Studio in Tacoma.
- 50 Studio in Milwaukee.

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS

Call signal	Location of transmitter and mail address	Licensee	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
KBPS	Portland, Oreg., East Twelfth and Hoyt Sts.	Benson Polytechnic School...	1,420 (211.3)	100
KBTM	Paragould, Ark., 219 South Pruett St.	W. J. Beards Temple of Music.	1,200 (250)	100
KCRC	Enid, Okla., Champlin Building.....	Champlin Refining Co.....	1,370 (219)	100
KCRJ	Jerome, Ariz., 711 Main St.	Charles C. Robinson.....	1,310 (229)	250
KDB	Santa Barbara, Calif., 17 East Haley St.	1,500 (200)	100	100
KDFN	Casper, Wyo., Townsend Hotel.....	Donald Hathaway.....	1,210 (247.9)	100
KDKA	Wilkinsburg, Pa., 700 Braddock Ave., Pittsburgh, Pa.	Westinghouse Electric & Mfg. Co.	980 (306)	25,000
KDLR	Devils Lake, N. Dak., 1025 Third St.	KDLR (Inc.)	1,210 (247.9)	100
KDYL	Salt Lake City, Utah, 143 South Main St.	Intermountain Broadcasting Corp.	1,290 (232.6)	1,000
KECA	Los Angeles, Calif., 1000 South Hope St.	Pacific Development Radio Co.	1,430 (209.8)	1,000
KELW	Burbank, Calif., 760 South Hill St., Los Angeles, Calif.	Earl L. White (Union Bank & Trust Co., guardian).	780 (385)	500
KEX	Portland, Oreg., Twelfth and Morrison Sts.	Western Broadcasting Co.....	1,180 (254.2)	5,000
KFAB	Lincoln, Nebr., Thirteenth and Q Sts.	Nebraska Buick Auto Co.....	77 (390)	5,000
KFBB	Great Falls, Mont., First Ave. and Third St.	Buttrely Broadcast (Inc.).....	1,280 (234.4)	1,000
KFBK	Sacramento, Calif., 911 Seventh St.	James McClatchy Co.....	1,310 (229)	200
KFBL	Everett, Wash., 2814 Rucker Ave.....	Leese Bros.....	1,370 (219)	50
KFDM	Beaumont, Tex., P. O. Box 798.....	Magolia Petroleum Co.....	560 (536)	1,500
KFDY	Brookings, S. Dak.....	South Dakota State College...	550 (545)	1,500
KFEL	Denver, Colo., 233 East Colfax Ave...	Eugene P. O'Fallon (Inc.)....	920 (326)	600
KFEQ	St. Joseph, Mo., Robidoux Hotel.....	Seroggin & Co. Bank.....	680 (441)	2,500
KFGQ	Boone, Iowa, 924 West Second St.....	Boone Biblical College.....	1,310 (229)	100
KFH	Wichita, Kans., 124½ South Market St.	Radio Station KFH Co.....	1,300 (230.8)	1,000
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 (460)	5,000
KFIO	Spokane, Wash., 528 First Ave.....	Spokane Broadcasting Corp..	1,120 (267.9)	100
KFIU	Juneau, Alaska, 35 Front St.....	Alaska Electric Light & Power Co.	1,310 (229)	10
KFIZ	Fond du Lac, Wis., 18 West First St.	Reporter Printing Co.....	1,420 (211.3)	100
KFJB	Marshalltown, Iowa., 1603 West Main St.	Marshall Electric Co. (Inc.)..	1,200 (250)	100
KFJF	Oklahoma City, Okla., Security Bldg.	National Radio Manufacturing Co.	1,480 (202.7)	250
KFJI	Astoria, Oreg., 176 Fourteenth St.....	KFJI Broadcasters (Inc.).....	1,370 (219)	100
KFJM	Grand Forks, N. Dak.....	University of North Dakota.....	1,370 (219)	100
KFJR	Portland, Oreg., 95 Fifth St.....	Ashley C. Dixon & Son.....	1,300 (230.8)	500
KFJY	Fort Dodge, Iowa (Riverdale), Tenth St. and First Ave. S.	C. S. Tunwall.....	1,310 (229)	100
KFJZ	Fort Worth, Tex., 1214 Main St.....	H. C. Meacham, estate of.....	1,370 (219)	100
KFKA	Greeley, Colo., 1800 Tenth Ave.....	The Mid-Western Radio Corp.	880 (341)	1,500
KFKB	Millford, Kans., Corner Fifth and Barry Sts.	The KFKB Broadcasting Assn. (Inc.)	1,050 (285.7)	2,000
KFKU	Lawrence, Kans.....	University of Kansas.....	1,220 (245.9)	500
KFKX	Bloomington, Ill., 700 Braddock Ave., East Pittsburgh, Pa. ⁸	Westinghouse Electric & Mfg. Co.	1,020 (294.1)	7,000
KFLV	Rockford, Ill., Hotel Faust.....	Rockford Broadcasters (Inc.)..	1,410 (212.8)	500
KFLX	Galveston, Tex., 3327 Avenue P.....	George R. Clough.....	1,370 (219)	100
KFMX	Northfield, Minn.....	Carleton College.....	1,250 (240)	1,000
KFNF	Shenandoah, Iowa, 407 Sycamore St...	Henry Field Co.....	890 (337)	1,500
KFOR	Lincoln, Nebr., 136 South Twelfth St..	Howard A. Shuman.....	1,210 (247.9)	2,000
KFOX	Long Beach, Calif., 220 East Anaheim St.	Nichols & Warinner (Inc.)...	1,250 (240)	250
KFPL	Dublin, Tex., 205 Grafton St.....	C. C. Baxter.....	1,310 (229)	1,000

See footnotes on p. 183.

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Licensee	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
KFFM	Greenville, Tex., 2109 Park St.....	New Furniture Co. (Dave Ablowich, jr.)	1,310 (229)	15
KFPW	Siloam Springs, Ark., John Brown School Bldg.	The John Brown Schools.....	1,340 (223.9)	50
KFPY	Spokane, Wash., Symons Bldg.	Symons Broadcasting Co.....	1,340 (223.9)	1,000
KFPD	Anchorage, Alaska, Fourth St.	Anchorage Radio Club.....	1,230 (243.9)	100
KFQU	Alma, Calif. (Holy City).....	W. E. Riker.....	1,420 (211.3)	100
KFQC	Seattle, Wash., 315 Seneca St.	KFQW (Inc.).....	1,420 (211.3)	160
KFKW	San Francisco, Calif., 1000 Van Ness Ave.	Don Lee (Inc.).....	610 (492)	1,000
KFRU	Columbia, Mo.....	Stephens College.....	630 (476)	500
KFSD	San Diego, Calif., 326 Broadway.....	Airfan Radio Corp.....	600 (500)	2 1,000
KFSG	Los Angeles, Calif., 1100 Glendale Blvd.	Echo Park Evangelistic Assn.	1,120 (267.9)	500
KFUL	Galveston, Tex., Buccaneer Hotel.	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., 3558 South Jefferson Ave., St. Louis, Mo.	Concordia Theological Seminary.	550 (545)	2 1,000
KFUP	Denver, Colo., Colfax and Peoria Sts.	Fitzsimons General Hospital, U. S. Army.	1,310 (229)	100
KFVD	Culver City, Calif., 8822 Washington Blvd.	Los Angeles Broadcasting Co.	1,000 (300)	250
KFVS	Cape Girardeau, Mo., 312 South Frederick St.	Hirsh Battery & Radio Co.....	1,210 (247.9)	100
KFWB	Hollywood, Calif., 6425 Hollywood Blvd.	Warner Brothers Broadcasting Corp.	950 (316)	1,000
KFWF	St. Louis, Mo., 4030 Lindell St. Blvd.	St. Louis Truth Center (Inc.)	1,200 (250)	100
KFWI	San Francisco, Calif., 505 Geary St.	Radio Entertainments (Inc.)	930 (323)	500
KFXD	Nampa, Idaho, 1024 12th Ave., South.	Service Radio Co. (Frank E. Hurt).	1,420 (211.3)	50
KFXF	Denver, Colo., 209 Sixteenth St.....	Colorado Radio Corp.....	920 (326)	500
KFXJ	Edgewater, Colo., 2938 Beaton St.....	R. G. Howell (Olinger Gardens).	1,310 (229)	50
KFXM	San Bernardino, Calif., Fifth and E Sts.	J. C. & E. W. Lee.....	1,210 (247.9)	100
KFXR	Oklahoma City, Okla., 1305 South Pennsylvania St.	Exchange Avenue Baptist Church.	1,310 (229)	1 100
KFXY	Flagstaff, Ariz., 117 North Beaver St.	Miss Mary M. Costigan.....	1,420 (211.3)	2 250
KFYO	Abilene, Tex., Cypress and North First Sts.	Kirksey Bros.....	1,420 (211.3)	100
KFYA	Bismarck, N. Dak., 200 Fourth St.	Meyer Broadcasting Co.....	550 (545)	2 250
KGA	Spokane, Wash., 1023 Riverside Ave.	Northwest Broadcasting System (Inc.)	1,470 (204.1)	5,000
KGAR	Tucson, Ariz., Twelfth St. and Sixth Ave.	Tucson Motor Service Co.....	1,370 (219)	1 100
KGB	San Diego, Calif., 3636 Beverly Blvd., Los Angeles, Calif.	Pickwick Broadcasting Corp..	1,330 (225.6)	2 250
KGBU	Ketchikan, Alaska, 335 Front St.....	Alaska Radio & Service Co. (Inc.)	900 (333)	500
KGBX	St. Joseph, Mo., 1829 Colhoun St.....	Foster-Hall Tire Co.....	1,310 (229)	100
KGBZ	York, Nebr., 715 Grant Ave.....	Dr. George R. Miller.....	930 (323)	2 1,000
KGCA	Decorah, Iowa, 201 Water St.	Charles W. Greenley.....	1,270 (236.2)	50
KGCI	San Antonio, Tex., St. Mary's University.	Radio Sam Broadcast Co. (Inc.) (Sam Liberto)	1,370 (219)	100
KGCR	Watertown, S. Dak., 502 Fifth St.....	Cutler's Radio Broadcasting Service (Inc.)	1,210 (247.9)	100
KGCU	Mandan, N. Dak., 310 West Main St.	Mandan Radio Assn.	1,200 (250)	100
KGCX	Wolf Point, Mont.....	First State Bank of Vida.....	1,310 (229)	2 250
KGDA	Mitchell, S. Dak.....	Mitchell Broadcasting Corp.....	1,370 (219)	100
KGDE	Fergus Falls, Minn., Lincoln Ave. West.	Charles L. Jaren (Jaren Drug Co.)	1,200 (250)	1 100
KGDM	Stockton, Calif., 42 South California St.	E. F. Peffer.....	1,100 (272.7)	2 250
KGDY	Oldham, S. Dak., Main St.....	J. Albert Loesch & George W. Wright.	1,200 (250)	15
KGEF	Los Angeles, Calif., 1201 South Flower St.	Trinity Methodist Church South.	1,300 (230.8)	1,000
KGEK	Yuma, Colo., 109 West Second St....	Bechler Electrical Equipment Co.	1,200 (250)	50
KGER	Long Beach, Calif., 435 Pine Ave.....	C. Merwin Dobyns.....	1,360 (220.6)	1,000
KGEW	Fort Morgan, Colo., City Hall	City of Fort Morgan.....	1,200 (250)	100
KGEZ	Kalispell, Mont., Elks Bldg.....	Kalispell Chamber of Commerce	1,310 (229)	100
KGFF	Alva, Okla., 103 West Thirteenth St., Oklahoma City, Okla.	KGFF Broadcasting Co. (D. R. Wallace)	1,420 (211.3)	100
KGFG	Oklahoma City, Okla., 1110 West Second St.	Faith Tabernacle Assn. (Inc.)	1,370 (219)	100

See footnotes on p. 183.

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Licensee	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
KGFI	Corpus Christi, Tex., Plaza Hotel.....	Eagle Broadcasting Co. (Inc.).....	1,500 (200)	100
KGfJ	Los Angeles, Calif., 2333 West Twenty-first St.	Ben S. McGlashan.....	1,200 (250)	100
KGfK	Moorhead, Minn., 722 Center Ave.....	Lautzenheiser & Mitchell.....	1,500 (200)	50
KGfL	Raton, N. Mex., Seaberg Hotel.....	W. E. Whitmore.....	1,370 (219)	50
KGfW	Ravenna, Nebr., 318 Grand Ave.....	Otto F. Sothman & Roy II. McConnell.	1,310 (229)	100
KGfX	Pierre, S. Dak., 510 Summit Ave.....	Dana McNeil.....	580 (517)	200
KGgC	San Francisco, Calif., 1451 Ellis St.....	Golden Gate Broadcasting Co.....	1,420 (211.3)	100
KGgF	Picher, Okla., 315½ Connell Ave.....	Powell & Platz.....	1,010 (297)	500
KGgM	Albuquerque, N. Mex., Fifth St. and West Central Ave.	New Mexico Broadcasting Co.....	1,230 (243.9)	1 250 2 500
KGhF	Pueblo, Colo., 111 Broadway.....	Curtis P. Ritchie & Joe E. Finch.	1,320 (227.3)	1 250 2 500
KGhI	Little Rock, Ark., corner of Markham and Louisiana Ave.	Berean Bible Class, First Baptist Church.	1,200 (250)	100
KGhL	Billings, Mont., Fifth Ave. and North Broadway.	Northwestern Auto Supply Co. (Inc.).....	950 (316)	500
KGiQ	Twin Falls, Idaho, 262 Third Ave. West.	Radio Broadcasting Corp.....	1,320 (227.3)	250
KGiR	Butte, Mont., 121 West Broadway.....	KGiR (Inc.).....	1,360 (220.6)	500
KGiW	Trinidad, Colo., 323 North Commercial St.	Leonard E. Wilson.....	1,420 (211.3)	100
KGiX	Las Vegas, Nev., P. O. Box 656, State and Oak Sts.	J. M. Heaton.....	1,420 (211.3)	100
KGjZ	Grant City, Mo.....	Grant City Park Corp.....	1,500 (200)	50
KGjF	Little Rock, Ark., Maryland Ave. and Battery St.	First Church of the Nazarene.	890 (337)	250
KGkB	Brownwood, Tex., 2308 Austin Ave.....	Eagle Publishing Co. (E. M., C. T. & E. E. Wilson).	1,500 (200)	100
KGkL	San Angelo, Tex., 50 South Milton St.	KGkL (Inc.).....	1,370 (219)	100
KGkO	Wichita Falls, Tex., Cor. Ninth and Indiana Ave.	Wichita Falls Broadcasting Co.	570 (526)	1 250 2 500
KGkX	Sandpoint, Idaho, Main and Second Ave.	C. E. Twiss and F. H. McCann.	1,420 (211.3)	100
KGkY	Scottsbluff, Nebr., 1713 Broadway.....	Hilliard Co. (Inc.).....	1,500 (200)	100
KGmB	Honolulu, Hawaii, 205 Merchant St.....	Honolulu Broadcasting Co. (Ltd.).....	1,320 (227.3)	500
KGmP	Elk City, Okla., Story Hotel.....	Bryant Radio & Electric Co.....	1,210 (247.9)	100
KGnF	North Platte, Nebr.....	Herbert L. Spencer.....	1,430 (209.8)	500
KGnO	Dodge City, Kans.....	Melvin A. McCollom.....	1,210 (247.9)	100
KGnQ	Oakland, Calif., 111 Suter St., San Francisco, Calif.	National Broadcasting Co. (Inc.).....	790 (380)	7,500
KGnS	Amarillo, Tex., 112 East Eighth Ave.....	E. B. Gish (Gish Radio Service).	1,410 (380)	1,000
KGnU	Honolulu, Hawaii, Advertiser Square, Kapiolani and South Sts.	Marion A. Mulrony & Advertising Publishing Co. (Ltd.).....	940 (319)	1,000
KGw	Portland, Oreg., Sixth and Alder Sts.....	Oregonian Publishing Co.....	620 (484)	1,000
KGy	Lacey, Wash.....	St. Martins College.....	1,200 (250)	10
KHJ	Los Angeles, Calif., 1076 West Seventh St.	Don Lee (Inc.).....	900 (333)	1,000
KHq	Spokane, Wash., Post and Sprague Sts.	Louis Wasmer (Inc.).....	590 (509)	1 1,000 2 2,000
KICK	Red Oak, Iowa, 116 Coolbaugh St.....	Red Oak Radio Corp.....	1,420 (211.3)	100
KID	Idaho Falls, Idaho, Corner Capital and A Sts.	KID Broadcasting Co.....	1,320 (227.3)	1 250 2 500
KIDQ	Boise, Idaho, Ninth and Jefferson Sts.	Boise broadcasting station (Frank L. Hill and C. G. Phillips).	1,250 (240)	1,000
KIT	Yakima, Wash., Hotel Winthrop, Tacoma, Wash.	Carl E. Raymond.....	1,310 (229)	50
KJBS	San Francisco, Calif., 1380 Bush St.....	Julius Brunton & Sons Co.....	1,070 (280.4)	100
KJR	Seattle, Wash., 303 Home Savings Bldg.	Northwest Broadcasting System (Inc.).....	970 (309)	5,000
KLCN	Blytheville, Ark., Main and Division Sts	Charles Leo Lintzenich.....	1,290 (232.6)	50
KLO	Ogden, Utah, 420 Twenty-fifth St.....	Peery Building Co.....	1,400 (214.3)	500
KLPM	Minot, N. Dak.....	John B. Cooley.....	1,420 (211.3)	100
KLRA	Little Rock, Ark., 210 Center St.....	Arkansas Broadcasting Co.....	1,390 (215.8)	1,000
KLs	Oakland, Calif., 2201 Telegraph Ave.....	Warner Brothers (E. N. and S. W. Warner).	1,440 (208.3)	250
KLX	Oakland, Calif., Thirteenth and Franklin Sts.	Tribune Publishing Co.....	880 (341)	500
KLZ	Denver, Colo., Shirley Savoy, Hotel.	Reynolds Radio Co. (Inc.).....	560 (536)	1,000
KMA	Shenandoah, Iowa, Corner Elm and Lowell Sts.	May Seed & Nursery Co.....	930 (323)	1 500 2 1,000
KMBC	Independence, Mo., Aladdin Hotel, Kansas City, Mo. ¹⁰	Midland Broadcasting Co.....	950 (316)	1,000

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Licensee	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
KMED	Medford, Oreg., Sparta Bldg.....	Mrs. W. J. Virgin.....	1,310 (229)	50
KMIC	Inglewood, Calif., 518 South Figueroa St., Los Angeles, Calif.	Dalton's (Inc.).....	1,120 (267.9)	500
KMJ	Fresno, Calif., 1500 Block Van Ness Ave.	James McClatchy Co.....	1,210 (247.9)	100
KMLB	Monroe, La., 512 South Grand St.....	J. C. Liner.....	1,200 (250)	50
KMMJ	Clay Center, Nebr.....	M. M. Johnson Co.....	740 (405)	1,000
KMO	Tacoma, Wash., 950 Broadway.....	KMO (Inc.).....	860 (349)	1,500
KMOX	Kirkwood, Mo., Hotel Mayfair.....	Voice of St. Louis (Inc.).....	1,090 (275.2)	5,000
KMPC	Beverly Hills, Calif., 9631 Wiltshire Blvd.	R. S. MacMillan.....	710 (423)	500
KMTR	Los Angeles, Calif., 1025 North Highland Ave.	KMTR Radio Corp.....	570 (526)	500
KNX	Los Angeles, Calif., 236 South Hill St.	Western Broadcast Co.....	1,050 (285.7)	5,000
KOA	Denver, Colo., 1370 Krameria St.....	National Broadcasting Co. (Inc.).....	830 (361)	12,500
KOAC	Corvallis, Oreg.....	Oregon State Agricultural College.	550 (545)	1,000
KOB	State College, N. Mex.....	New Mexico College of Agriculture & Mechanic Arts.	1,180 (254.2)	20,000
KOCW	Chickasha, Okla., 1800 South Eighth St.	Oklahoma College for Women.	1,400 (214.3)	1,250
KOH	Reno, Nev., 38 West First St.....	Jay Peters (Inc.).....	1,370 (219)	100
KOIL	Council Bluffs, Iowa, 1124 South Sixth St.	Mona Motor Oil Co.....	1,260 (238.1)	1,000
KOIN	Portland, Oreg. (Sylvan), care of Portland News.	KOIN (Inc.).....	940 (319)	1,000
KOL	Seattle, Wash., 1326 Second Ave.....	Seattle Broadcasting Co. (Inc.).....	1,270 (236.2)	1,000
KOMO	Seattle, Wash., 66-A Cobb Bldg.....	Fisher's Blend Station (Inc.).....	920 (326)	1,000
KONO	San Antonio, Tex., Saint Anthony Hotel.	Mission Broadcasting Co.....	1,370 (219)	100
KOOS	Marshfield, Oreg., 1056 Central Ave.....	Harold H. Hanseth.....	1,370 (219)	100
KORE	Eugene, Oreg., 733 Willamette St.....	Eugene broadcast station (Frank L. Hill and C. G. Phillips).	1,420 (211.3)	100
KOY	Phoenix, Ariz., 621 North Central Ave.	Nielsen Radio & Sporting Goods Co.	1,390 (215.8)	500
KPCB	Seattle, Wash., 225 Pine St.....	Wescoast Broadcasting Co.....	650 (462)	100
KPJM	Prescott, Ariz., 138 North Cortez St.....	Miller & Klahn.....	1,500 (200)	100
KPO	San Francisco, Calif., 901 Market St.....	Hale Bros. Stores (Inc.) and Chronicle Publishing Co.	680 (441)	5,000
KPOF	Bellevue College, Colo. (Denver), 1845 Champa St., Denver, Colo.	Pillar of Fire (Inc.).....	880 (341)	500
KPPC	Pasadena, Calif., 585 East Colorado St.	Pasadena Presbyterian Church.	1,210 (247.9)	50
KPQ	Wenatchee, Wash., 225 Pine St., Seattle, Wash.	Wescoast Broadcasting Co.....	1,500 (200)	50
KPRC	Sugarland, Tex., Port Dispatch Bldg., Houston, Tex. ¹¹	Houston Printing Co.....	920 (326)	1,000
KPSN	Pasadena, Calif., 525 East Colorado St.	Pasadena Star News Publishing Co.	1,360 (220.6)	1,000
KPWF	Westminster, Calif., (Santa Ana) 1858 East Colorado St., Pasadena, Calif. ¹²	Pacific-Western Broadcasting Federation.	1,490 (201.3)	-----
KQV	Pittsburgh, Pa., 110 Seventh St.....	Doubleday-Hill Electric Co.....	1,380 (217.4)	500
KQW	San Jose, Calif., corner Second and San Antonio Sts.	Pacific Agricultural Foundation (Ltd.)	1,010 (297)	500
KRE	Berkeley, Calif., 2345 Channing Way.	First Congregational Church of Berkeley.	1,370 (219)	100
KREG	Santa Ana, Calif., 1858 East Colorado St., Pasadena, Calif.	Pacific-Western Broadcasting Federation (Ltd.)	1,500 (200)	100
KRGV	Harlingen, Tex., Rio Grande National Life Building.	KRGV (Inc.).....	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
KROW	Richmond, Calif., 1520 Eighth Ave., Oakland, Calif. ¹³	Educational Broadcasting Corp.	930 (323)	1,500
KRSC	Seattle, Wash., Fifth Ave. and Spring Sts.	Radio Sales Corp.....	1,120 (267.9)	50
KSAC	Manhattan, Kans.....	Kansas State Agricultural College.	580 (517)	1,500
KSCJ	Sioux City, Iowa.....	Perkins Bros. Co. (Sioux City Journal).	1,330 (225.6)	1,000
KSD	St. Louis, Mo.....	Pulitzer Publishing Co. (St. Louis Post Dispatch).	550 (545)	2,500
KSEI	Pocatello, Idaho, 141 South Sixth Ave..	KSEI Broadcasting Assn. (Inc.)	900 (333)	250
KSL	Salt Lake City, Utah, 47 West South Temple St.	Radio Service Corp. of Utah..	1,130 (265.5)	5,000

See footnotes on p. 183.

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS--Continued

Call signal	Location of transmitter and mail address	Licensee	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
KSMR	Santa Maria, Calif., Jones and McClelland Sts.	Santa Maria Valley R. R. Co.	1,200 (250)	100
KSO	Clarinda, Iowa	Berry Seed Co.	1,380 (217.4)	500
KSOO	Sioux Falls, S. Dak., 219 South Phillips Ave.	Sioux Falls Broadcast Assn. (Inc.)	1,110 (270.3)	2,000
KSTP	Westcott, Minn., St. Paul Hotel, St. Paul, Minn. ¹⁴	National Battery Broadcasting Co.	1,460 (205.5)	10,000
KTAB	{Oakland, Calif., 3636 Beverly Blvd., Los Angeles, Calif. ¹⁵	{Associated Broadcasters (Inc.)	560 (536)	{ ¹ 500 ¹⁶ 1,000
KTAP	San Antonio, Tex., 822 West Mulberry Ave.	Alamo Broadcasting Co.	1,420 (211.3)	100
KTAR	Phoenix, Ariz.	KAR Broadcasting Co.	620 (484)	{ ¹ 500 ² 1,000
KTAT	Birdville, Tex., Fort Worth National Bank Bldg., Fort Worth, Tex. ¹¹	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)	1,000
KTBR	Portland, Oreg., 410 East Morrison St.	M. E. Brown	1,300 (230.8)	500
KTBS	Shreveport, La., Box 1026	Tri State Broadcasting System (Inc.)	1,450 (206.9)	1,000
KTHS	Hot Springs, Ark., 135 Benton St.	Hot Springs Chamber of Commerce.	1,040 (288.5)	10,000
KTLC	Houston, Tex., 816 Texas Ave.	Houston Broadcasting Co.	1,310 (229)	100
KTLM	{Santa Monica, Calif., 3636 Beverly Blvd., Los Angeles, Calif.	{The Pickwick Broadcasting Corp.	780 (385)	{ ¹ 500 ² 1,000
KTNT	Muscataine, Iowa, Second and Lombard Sts.	Norman Baker	1,170 (256.4)	{ ¹⁸ 1,000 ¹⁹ 5,000
KTRH	Houston, Tex., Driscoll Hotel	Rice Hotel	1,120 (267.9)	500
KTSA	San Antonio, Tex., Plaza Hotel	Lone Star Broadcast Co. (Inc.)	1,290 (232.6)	{ ¹ 1,000 ² 2,000
KTSL	Shreveport, La. (Cedar Grove), Box 307, 1549 Jordan St.	G. A. Houseman	1,310 (229)	100
KTSM	El Paso, Tex., 103 South El Paso St.	W. S. Bledsoe & W. T. Blackwell.	1,310 (229)	100
KTUE	Houston, Tex., Texas State Hotel	William John Uhalt (Uhalt Electric).	1,420 (211.3)	100
KTW	Seattle, Wash., Seventh Ave. and Spring St.	First Presbyterian Church of Seattle, Wash.	1,270 (236.2)	1,000
KUJ	Longview, Wash., 1346 Fourteenth Ave.	Columbia Broadcasting Co. (Inc.)	1,500 (200)	100
KUOA	Fayetteville, Ark.	University of Arkansas	1,390 (215.8)	1,000
KUSD	Vermillion, S. Dak.	University of South Dakota	890 (337)	{ ¹ 500 ² 750
KUT	Austin, Tex., Main and Texas Ave., Houston, Tex.	Rice Hotel	1,500 (200)	100
KVI	Des Moines, Wash., Hotel Tacoma, Tacoma, Wash. ¹²	Puget Sound Broadcasting Co. (Inc.)	760 (395)	1,000
KVL	Seattle, Wash., Second Ave. and Virginia St.	KVL (Inc.)	1,370 (219)	100
KVOA	Tuscon, Ariz., Congress St. and Stone Ave.	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
KWCR	Cedar Rapids, Iowa, 1444 Second Ave. East.	Harry F. Paar	1,310 (229)	100
KWEA	Shreveport, La., Mooringsport Road	Hello World Broadcasting Corp.	1,210 (247.9)	100
KWG	Stockton, Calif., Medico Bldg.	Portable Wireless Telephone Co. (Inc.)	1,200 (250)	100
KWJJ	Portland, Oreg., 220 Broadway	KWJJ Broadcast Co. (Inc.)	1,060 (283)	500
KWK	St. Louis, Mo., 4965 Lindell Blvd.	Greater St. Louis Broadcasting Corp.	1,350 (222.2)	1,000
KWKC	Kansas City, Mo., Thirty-ninth and Main Sts.	Wilson Duncan Broadcasting Co.	1,370 (219)	100
KWKH	Kennonwood, La., Spring and Fanning Sts., Shreveport, La. ²⁰	Hello World Broadcasting Corp.	850 (353)	10,000
KWLC	Decorah, Iowa, 600 Hill St.	Luther College (Norwegian Luther College).	1,270 (236.2)	100
KWSC	Pullman, Wash.	State College of Washington	1,220 (245.9)	500
KWWG	Brownsville, Tex., Levee at Eleventh St.	Chamber of Commerce (city of Brownsville).	1,260 (238.1)	500
KXA	Seattle, Wash., 218 Bigelow Bldg., Fourth Ave. and Pike St.	American Radio Telephone Co.	570 (526)	500
KXL	Portland, Oreg., 209 Pine St.	KXL Broadcasters	1,420 (211.3)	100
KXO	El Centro, Calif., 679 Main St.	E. R. Irey and F. M. Bowles	1,200 (250)	100
KXRO	Aberdeen, Wash., Finch Bldg., Heron and South H St.	KXRO (Inc.)	1,310 (229)	75
KYA	San Francisco, Calif., 988 Market St.	Pacific Broadcasting Corp.	1,230 (243.9)	1,000
KYW	Bloomington, Ill., Hotel Congress, Chicago, Ill. ³	Westinghouse Electric & Mfg. Co.	1,020 (294.1)	10,000
KZIB	Manila, P. I.	I. Beck (Inc.)	1,153 (260)	20

See footnotes on p. 183.

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Licensee	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
KZM	Hayward, Calif., 880 B St.	Leon P. Tenney	1, 370 (219)	100
KZKZ	Manila, P. I., 109 Plaza Moraga	Electrical Supply Co.	1, 110 (270.1)	100
KZRC	Cebu, P. I.	Radio Corporation of the Philippines.	1, 300 (230.8)	(21)
KZRM	Manila, P. I., Manila Hotel	do.	{ 726 (413) 6, 130 (48.94) 9, 570 (31.35)	1, 000
NAA	Arlington, Va.	U. S. Navy	690 (435)	1, 000
WAAF	Chicago, Ill., 836 Exchange Ave.	Drivers Journal Publishing Co.	920 (326)	500
WAAM	Newark, N. J., 1080 Broad St.	WAAM (Inc.)	1, 250 (240)	{ 1, 000 2, 000
WAAT	Jersey City, N. J., 91 Sip Ave.	Bremer Broadcasting Corp.	940 (319)	300
WAAW	Omaha, Neb., 1901 Harney St.	Omaha Grain Exchange	660 (455)	500
WABC	New York, N. Y., 485 Madison Ave.	Atlantic Broadcasting Corp.	860 (349)	5, 000
WABI	Bangor, Me., 25 Broad St.	Pine Tree Broadcasting Corp.	1, 200 (250)	100
WABO	Rochester, N. Y., 36 South Ave.	Hickson Electric & Radio Corp.	1, 440 (208.3)	500
WABZ	New Orleans, La., 1376 Camp St.	Coliseum Place Baptist Church	1, 200 (250)	100
WACO	Waco, Tex., 412 Amicable Bldg.	Central Texas Broadcasting Co. (Inc.)	1, 240 (241.9)	1, 000
WADC	Tallmadge, Ohio, 118 West Market St.	Allen T. Simmons	1, 320 (227.3)	1, 000
WAGM	Royal Oak, Mich., 116 West Fourth St.	Royal Oak Broadcasting Co.	1, 310 (229)	50
WAIU	Columbus, Ohio, 44 West Broad St.	American Insurance Union	640 (469)	500
WALR	Zanesville, Ohio, 437 Wheeling Ave.	Roy W. Waller	1, 210 (247.9)	100
WAPI	Birmingham, Ala., Twenty-first St. and First Ave.	Alabama Polytechnic Institute, University of Alabama and Alabama College.	1, 140 (263.2)	5, 000
WASH	Grand Rapids, Mich., 154 Louis St., Peninsular Bldg.	WASH Broadcasting Corp.	1, 207 (236.2)	500
WBAA	West Lafayette, Ind.	Purdue University	1, 400 (214.3)	500
WBAK	Harrisburg, Pa., Capitol Bldg.	Pennsylvania State Police	1, 430 (209.8)	{ 1, 500 2, 1, 000
WBAL	Glen Morris, Md., Lexington Bldg., Baltimore, Md. ²²	Consolidated Gas Electric Light & Power Co. of Baltimore.	1, 060 (283)	10, 000
WBAP	Grapevine, Tex., 400 West Seventh St., Fort Worth, Tex. ¹⁷	Carter Publications (Inc.) (Star-Telegram).	800 (375)	10, 000
WBAX	Plains, Pa., 66 Gildersleeve St., Wilkes-Barre, Pa. ²³	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., 1627 Monument Ave.	Grace Covenant Presbyterian Church.	1, 210 (247.9)	100
WBBM	Glenview, Ill., 410 North Michigan Ave., Chicago, Ill. ⁸	Atlas Co. (Inc.)	770 (390)	25, 000
WBBR	Rossville, N. Y., 124 Columbia Heights, Brooklyn, N. Y.	Peoples Pulpit Association	1, 300 (230.8)	1, 000
WBBS	Boston, Mass., 5 Winthrop Square	Boston Broadcasting Co.	1, 500 (200)	50
WBBZ	Ponca City, Okla., Knickerbocker Hotel, West Forty-fifth St., New York, N. Y.	C. L. Carrell	1, 200 (250)	100
WBCM	Bay City, Mich. (Hampton) Wenonah Hotel, Bay City, Mich.	James E. Davidson	1, 410 (212.8)	500
WBCN	Downers Grove, Ill., 72 West Adams St., Chicago, Ill. ⁹	Great Lakes Broadcasting Co.	870 (345)	{ 25, 000 50, 000
WBEN	Martinsville, N. Y., Rand Building, Buffalo, N. Y. ²⁴	Buffalo Evening News (Ada Butler Mitchell and Edward H. Butler).	900 (333)	1, 000
WBGF	Glens Falls, N. Y., 10 Numan St.	W. Neal Parker and Herbert H. Metcalf.	1, 370 (219)	50
WBIS	Quincy, Mass., 30 Winter St., Boston, Mass. ²⁵	Shepard Broadcasting Service (Inc.)	1, 230 (243.9)	1, 000
WBMS	Hackensack, N. J., 6 Banta Place	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., Wabash Savings and Loan Bldg.	Banks of Wabash (Inc.)	1, 310 (229)	100
WBRC	Birmingham, Ala., Bankhead Leland Hotel.	Birmingham Broadcasting Co. (Inc.)	930 (323)	{ 1, 500 2, 1, 000
WBRE	Wilkes-Barre, Pa., 16 North Main St.	Louis G. Baltimore	1, 310 (229)	100
WBSO	Wellesley Hills, Mass., Prescott St.	Babson's Statistical Organization (Inc.)	920 (326)	250
WBT	Charlotte, N. C., Wilder Building, South Tryon and Third Sts.	Station WBT (Inc.)	1, 080 (277.8)	5, 000
WBTM	Danville, Va., 602 Main St.	Clarke Electric Co.	1, 370 (219)	100
WBZ	East Springfield, Mass., 700 Braddock Ave., East Pittsburgh, Pa.	Westinghouse Electric & Mfg. Co.	990 (303)	15, 000

See footnotes on p. 183

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Licensee	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
WBZA	Boston, Mass., 700 Braddock Ave., East Pittsburgh, Pa.	Westinghouse Electric & Mfg. Co.	990 (303)	500
WCAC	Mansfield, Conn. (Storrs).....	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)	4,500
WCAH	Columbus, Ohio, Hotel Fort Hayes..	The Commercial Radio Service Co.	1,430 (209.8)	1,000
WCAJ	Lincoln, Nebr. University Place, Fifty-first and St. Paul Sts.	Nebraska Wesleyan University.	590 (509)	500
WCAL	Northfield, Minn.	St. Olaf College.....	1,250 (240)	1,000
WCAM	Camden, N. J., Civic Center, City Hall.	City of Camden.....	1,280 (234.4)	500
WCAO	Baltimore, Md., 848 North Howard St.	Monumental Radio (Inc.).....	600 (500)	250
WCAP	Ashbury Park, N. J., 525 Bangs Ave..	Radio Industries Broadcast Co.	1,280 (234.4)	500
WCAT	Rapid City, S. Dak., East St. Joe St..	South Dakota State School of Mines.	1,200 (250)	100
WCAU	Philadelphia, Pa. (Byberry), 1321 Arch St.	Universal Broadcasting Co....	1,170 (256.4)	10,000
WCAX	Burlington, Vt.	University of Vermont.....	1,200 (250)	100
WCAZ	Carthage, Ill., 1008 Buchanan St.....	Superior Broadcasting Service (Will H. Sohn, Walter H. Tanner & Robert E. Compton).	1,070 (280.4)	50
WCBA	Allentown, Pa., 529 North Eighth St..	B. Bryan Musselman.....	1,440 (208.3)	250
WCBD	Zion, Ill.	Wilbur G. Voliva.....	1,080 (277.8)	5,000
WCBM	Baltimore, Md., 217 West Lexington St.	Baltimore Broadcasting Corp.	1,370 (219)	1,100
WCBS	Springfield, Ill., 400 East Jefferson St..	Harold L. Dewing and Charles H. Messter.	1,210 (247.9)	2,250
WCCO	Anoka (St. Paul-Minneapolis), Minn. Minneapolis, Minn., ²⁶ Chamber of Commerce.	Northwestern Broadcasting (Inc.).	810 (370)	100
WCDA	Cliffside, N. J., 225 Lafayette St., New York, N. Y. ²⁷	Italian Educational Broadcast Co. (Inc.).	1,350 (222.2)	7,500
WCFL	Chicago, Ill., 623 South Wabash Ave..	Chicago Federation of Labor..	970 (309)	1,500
WCGU	Brooklyn, N. Y., 16 Court St.	U. S. Broadcasting Corp.....	1,400 (214.3)	500
WCHI	Deerfield, Ill., Waukegan Rd. ³	Radiophone Broadcasting Corp.	1,490 (201.3)	5,000
WCKY	Covington, Ky. (Crescent Springs), Sixth St. and Madison Ave.	L. B. Wilson (Inc.).....	1,490 (201.3)	5,000
WCLB	Long Beach, N. Y., Box 288.	Arthur Faske.....	1,500 (200)	100
WCLO	Kenosha, Wis., 200 East Milwaukee St., Janesville, Wis.	WCLO Radio Corp.....	1,200 (250)	100
WCLS	Joliet, Ill., 301 East Jefferson St.	WCLS (Inc.).....	1,310 (229)	100
WCMA	Culver, Ind.	General Broadcasting Corp....	1,400 (214.3)	500
WCOA	Pensacola, Fla., City Hall Bldg.	City of Pensacola, Fla.....	1,340 (223.9)	500
WCOC	Meridian, Miss., Fifth St. and Ninth Ave., South Columbus, Miss.	Mississippi Broadcasting Co. (Inc.).	880 (341)	1,500
WCOD	Harrisburg, Pa., Fourth and Market Sts.	Norman R. Hoffman.....	1,200 (250)	2,100
WCOH	Greenville, N. Y., 110 Highland Ave., Yonkers, N. Y. ²⁸	Westchester Broadcasting Corp.	1,210 (247.9)	100
WCRW	Chicago, Ill., 2756 Pine Grove Ave....	Clinton R. White.....	1,210 (247.9)	100
WCSC	Charleston, S. C., Calhoun and King Sts.	Fred Jordan & Lewis Burk...	1,310 (229)	1,100
WCSH	Scarboro, Me., 579 Congress St., Portland, Me. ²⁹	Congress Square Hotel Co....	940 (319)	2,250
WCSS	Springfield, Ohio.	Wittenberg College.....	1,450 (206.9)	1,000
WDAE	Tampa, Fla., 114 South Franklin St....	Tampa Publishing Co.....	1,220 (245.9)	500
WDAF	Kansas City, Mo., 1729 Grand Ave.	Kansas City Star Co.....	610 (492)	1,000
WDAG	Amarillo, Tex., Security Bldg.	National Radio & Broadcasting Corp.	1,410 (212.8)	250
WDAH	El Paso, Tex., East Yandoll Blvd. and Mesa Ave.	Eagle Broadcasting Co. (E. E. C. T., E. M., and Ernest Wilson).	1,310 (229)	100
WDAY	West Fargo, N. Dak., 117 Broadway..	WDAY (Inc.).....	940 (319)	1,000
WDBJ	Roanoke, Va., 106 Church Ave. W....	Richardson-Wayland Electrical Corp.	930 (323)	1,250
WDBO	Orlando, Fla., 545 North Orange Ave.	Orlando Broadcasting Co. (Inc.).	1,120 (267.9)	2,500
WDEL	Wilmington, Del., Tenth and King St.	WDEL (Inc.).....	1,120 (267.9)	1,500
WDGY	Minneapolis, Minn., 909 West Broadway.	Dr. George W. Young.....	1,180 (254.2)	2,350
WDOD	Brainerd, Tenn., 615 Market St., Chattanooga, Tenn. ³⁰	Chattanooga Radio Co. (Inc.).	1,280 (234.4)	1,000

See footnotes on p. 183.

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Licensee	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
WDRC	New Haven, Conn., Hotel Taft.....	Doolittle Radio Corp.....	1,330 (225.6)	500
WDSU	New Orleans, La., 400 Baronne St.....	Joseph H. Uhalt.....	1,250 (240)	1,000
WDWF	Cranston, R. I., 184 Washington St., Providence, R. I. ²¹	Dutree W. Flint and Lincoln Studios (Inc.).....	1,210 (247.9)	100
WDZ	Tuscola, Ill., Star Store Bldg.....	James L. Bush.....	1,070 (280.4)	100
WEAF	Belmore, N. Y., 711 Fifth Ave., New York, N. Y. ²⁷	National Broadcasting Co. (Inc.).....	660 (455)	{ \$25,000 \$50,000
WEAI	Ithaca, N. Y. ⁹	Cornell University.....	1,270 (236.2)	{ \$1,000 \$1,500
WEAN	Providence, R. I., 259 Westminster St.	Shepard Broadcasting Service (Inc.).....	780 (385)	{ 250 250
WEAO	Columbus, Ohio, North High St.....	Ohio State University.....	570 (262.5)	750
WEBC	Superior, Wis., 1225 Tower Ave.....	Head of the Lakes Broadcasting Co.....	1,290 (232.6)	{ 1,000 2,500
WEBQ	Harrisburg, Ill., 100 East Poplar St.....	First Trust & Savings Bank of Harrisburg.....	1,210 (247.9)	100
WFBR	Buffalo, N. Y., 735 Main St.....	Howell Broadcasting Co.....	1,310 (229)	{ 1,100 2,200
WEDC	Chicago, Ill., 3860 Ogden Ave.....	Emil Denmark (Inc.).....	1,210 (247.9)	100
WEDH	Erie, Pa., Twelfth and State Sts.....	Erie Dispatch Herald Broadcasting Corp.....	1,420 (211.3)	30
WEEI	Weymouth, Mass., 39 Boylston St., Boston, Mass. ²²	Edison Electric Illuminating Co. of Boston.....	590 (509)	1,000
WEHC	Emory, Va.....	Emory and Henry College.....	1,200 (250)	{ 1,100 2,250
WEHS	Cicero, Ill., 636 Church St.....	WEHS (Inc.).....	1,420 (211.3)	100
WELK	Philadelphia, Pa., 6318 North Park Ave.	Howard R. Miller.....	1,370 (219)	{ 1,100 2,250
WELL	Battle Creek, Mich., 7 North McCamly St.	Enquirer-News Co.....	1,420 (211.3)	50
WEMC	Berrien Springs, Mich.....	Emmanuel Missionary College.....	590 (509)	1,000
WENR	Downers Grove, Ill., 72 West Adams St., Chicago, Ill. ³	Great Lakes Broadcasting Co.....	870 (345)	{ \$25,000 \$50,000
WEPS	Auburn, Mass., 60 Franklin St., Worcester, Mass. ³²	Alfred Frank Kleindienst.....	1,200 (250)	100
WEVD	Forest Hills, N. Y., 45 West Forty-fifth St. New York, N. Y. ²⁷	Debs Memorial Radio Fund (Inc.).....	1,300 (230.8)	500
WEW	St. Louis, Mo., 221 North Grand Blvd.	St. Louis University.....	760 (395)	1,000
WFAA	Grapevine, Tex., 801 Commerce St., Dallas, Tex. ³¹	The Dallas News & Dallas Journal (A. H. Belo Corp.).....	800 (375)	{ \$25,000 \$50,000
WFAN	Philadelphia, Pa., Hotel Lorraine.....	Keystone Broadcasting Co. (Haverford College Radio Club).....	610 (492)	500
WFBC	Knoxville, Tenn., 500 West Main St.....	First Baptist Church.....	1,200 (250)	50
WFBE	Cincinnati, Ohio, 108 Garfield Pl.....	Radio Station WFBE (Inc.).....	1,200 (250)	{ 1,100 2,250
WFBG	Altoona, Pa., 1320 Eleventh Ave.....	William F. Gable Co.....	1,310 (229)	100
WFB�	Syracuse, N. Y., Jefferson and Warren Sts.	Onondaga Radio Broadcasting Corp.....	1,360 (220.6)	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
WFDV	Flint, Mich., 321 First Ave.....	Frank D. Fallian.....	1,310 (229)	100
WFDW	Rome, Ga., 10 Third St.....	Dolies Goings.....	1,370 (219)	100
WFI	Talladega, Ala., Battle St.....	Raymond C. Hammett.....	1,420 (211.3)	100
WFIW	Philadelphia, Pa., 801 Market St.	Strawbridge & Clothier.....	560 (536)	500
WFIW	Hopkinsville, Ky., corner Campbell and Seventeenth St.	WFIW (Inc.).....	940 (319)	1,000
WFJC	Akron, Ohio, 140 East Market St.....	W. F. Jones, Broadcasting (Inc.).....	1,450 (206.9)	500
WFKD	Philadelphia, Pa. (Wissinoming), 4734 Frankford Ave.	Foulkrod Radio Engineering Co. (Clearwater Chamber of Commerce and St. Petersburg Chamber of Commerce).....	620 (484)	{ 1,100 2,500
WFLA	Clearwater, Fla., 422 Cleveland St.....	WFLA (Inc.).....	1,310 (229)	100
WGAL	Lancaster, Pa., 8 King St.....	Harry H. Carman.....	1,210 (247.9)	100
WGBB	Freeport, N. Y., 217 Bedell St.....	Memphis Broadcasting Co.....	1,430 (209.8)	500
WGBG	Memphis, Tenn., 883 Poplar Blvd.	Evansville On The Air (Inc.).....	630 (476)	500
WGBF	Evansville, Ind., 6184 1/2 Main St.	Scranton Broadcasters (Inc.).....	880 (341)	250
WGBI	Scranton, Pa., Select Bldg.....	General Broadcasting System (Inc.).....	600 (500)	{ 1,250 2,600
WGBS	Astoria, N. Y., Hotel Lincoln ²⁷	Great Southern Land Co.....	1,210 (247.9)	100
WGCM	Mississippi City, Miss., Great Southern Hotel, Gulfport, Miss. ³⁴	May Radio Broadcast Corp.....	1,250 (240)	250
WGCP	Newark, N. J., 591 Broad St.....	{ Oak Leaves Broadcasting Station (Inc.).....	1,360 (220.6)	{ 4,500 10,000
WGES	Chicago, Ill., 123 North Crawford Ave.	Hampton Roads Broadcasting Corp.....	1,310 (229)	100
WGH	Newport News, Va., 307 Bank of Commerce Bldg., Norfolk, Va.			

See footnotes on p. 183.

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Licensee	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
WGL	Fort Wayne, Ind., 215 West Main St.	Allen-Wayne Co. (Fred Zieg)	1,370 (219)	100
WGM	St. Paul, Minn.	University of Minnesota	1,250 (240)	1,000
WGN	Elgin, Ill., 435 North Michigan Ave., Chicago, Ill. ¹⁸	The Tribune Co.	720 (417)	25,000
WGR	Amherst, N. Y., Rand Bldg., Buffalo, N. Y. ²⁴	Radio Station WGR (Inc.)	550 (545)	1,000
WGST	Atlanta, Ga., North Ave. and Cherry St.	Georgia School of Technology	890 (337)	{ 1,250 2,500
WGY	Schenectady, N. Y.	General Electric Co.	790 (380)	50,000
WHA	Madison, Wis., North Charter St.	University of Wisconsin	940 (319)	750
WHAD	Milwaukee, Wis., 1217 Wisconsin Ave.	Marquette University	1,120 (267.9)	250
WHAM	Victor, N. Y., 100 Carlson Rd., Rochester, N. Y. ³⁵	Stromberg-Carlson Telephone Mfg. Co.	1,150 (260.0)	5,000
WHAP	Carlstadt, N. J., 154 West Fifty-seventh St. New York, N. Y. ²⁷	Defenders of Truth Society, (Inc.)	1,300 (230.8)	1,000
WHAS	Jeffersontown, Ky. ³⁶	Courier-Journal Co. & Louisville Times Co.	820 (366)	10,000
WHAT	Philadelphia, Pa., Box 16, Bethayres, Pa.	Independence Broadcasting Co.	1,310 (229)	100
WHAZ	Troy, N. Y.	Rensselaer Polytechnic Institute	1,300 (230.8)	500
WHB	North Kansas City, Mo., Hotel Baltimore, Kansas City, Mo.	WHB Broadcasting Co.	860 (349)	500
WHBC	Canton, Ohio	St. John's Catholic Church	1,200 (250)	10
WHBD	Mount Orab, Ohio, Main St. Presbyterian Church.	F. P. Moler	1,370 (219)	100
WHBF	Rock Island, Ill., 217 Eighteenth St.	Beardsley Specialty Co.	1,210 (247.9)	100
WBDL	Sheboygan, Wis., Knickerbocker Hotel.	Press Publishing Co.	1,410 (212.8)	500
WHDQ	Memphis, Tenn., Dermon Bldg.	Broadcasting Station WHDQ (Inc.)	1,370 (219)	100
WHBU	Anderson, Ind., 1101 Meridian St.	Citizens Bank	1,210 (247.9)	100
WHBY	West De Pere, Wis.	St. Norbert's College	1,200 (250)	100
WHDF	Calumet, Mich., 109 Fifth St.	Upper Michigan Broadcasting Co.	1,370 (219)	{ 1,100 2,250
WHDH	Gloucester, Mass., 209 Main St.	Matheson Radio Co. (Inc.)	830 (361)	1,000
WHDI	Minneapolis, Minn., 818 Superior Blvd.	William Hood Dunwoody Industrial Institute.	1,180 (254.2)	500
WHDL	Tupper Lake, N. Y., Main St.	Tupper Lake Broadcasting Co. (Inc.)	1,420 (211.3)	10
WHEC	Rochester, N. Y., 36 South Ave.	Hickson Electric & Radio Corp.	1,440 (208.3)	500
WHFC	Cicero, Ill., 6138 West Twenty-second St.	Triangle Broadcasters	1,420 (211.3)	100
WHIS	Bluefield, W. Va., 412 Blaud St.	Daily Telegraph Printing Co.	1,420 (211.3)	100
WHK	Cleveland, Ohio (Seven Hills), Corner Ontario and St. Clair Aves.	Radio Air Service Corp.	1,300 (215.8)	1,000
WHN	New York, N. Y., 1540 Broadway	Marcus Loew Booking Agency	1,010 (297)	250
WHO	Des Moines, Iowa, Sixth St. and Grand Ave.	Central Broadcasting Co.	1,000 (300)	5,000
WHOM	Jersey City, N. J., 2870 Boulevard	New Jersey Broadcasting Corp.	1,450 (206.9)	250
WHP	Lemoyne, Pa., 106 South Fourth St., Harrisburg, Pa. ³⁷	Pennsylvania Broadcasting Co.	1,430 (209.8)	500
WIAS	Otumwa, Iowa, 218 East Main St.	Poling Electric Co.	1,420 (211.3)	100
WIBA	Madison, Wis., 302 East Washington Ave.	Capital Times Co.	1,210 (247.9)	100
WIBG	Elkins Park, Pa.	St. Paul's Protestant Episcopal Church.	930 (323)	250
WIBM	Jackson, Mich., Knickerbocker Hotel, New York, N. Y.	C. L. Carrell	1,370 (219)	100
WIBO	Desplaines, Ill., 134 North La Salle St., Chicago, Ill. ⁸	Nelson Bros. Bond & Mortgage Co.	560 (536)	{ 1,000 2,150
WIBR	Stuebenville, Ohio, 141 North Fourth St.	George W. Robinson	1,420 (211.3)	50
WIBU	Poynette, Wis., R. F. D. 3	William C. Forrest	1,310 (229)	100
WIBW	Topeka, Kans., 1000 Kansas Ave.	Topeka Broadcasting Assn. (Inc.)	580 (517)	{ 1,500 2,1,000
WIBX	Utica, N. Y., 187 Genesee St.	WIBX (Inc.)	1,200 (250)	{ 1,100 2,300
WICC	Easton, Conn., 1044 Main St. ³⁸	Bridgeport Broadcasting Station (Inc.), (Harold D. Feuert and Charles W. Selen).	1,190 (252.1)	500
WIL	St. Louis, Mo.	Missouri Broadcasting Corp.	1,200 (250)	{ 1,100 2,250
WILL	Urbana, Ill., 400 South W Fight St., Champaign, Ill.	University of Illinois	890 (337)	{ 1,250 2,500
WILM	Wilmington, Del., 1217 Market St.	Delaware Broadcasting Co. (Inc.)	1,420 (211.3)	100

BROADCAST STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Licensee	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
WIOD	Miami Beach, Fla.	Isle of Dreams Broadcasting Corp.	1,300 (230.8)	1,500
WIP	Philadelphia, Pa.				Gimbel Brothers (Inc.)	500
WIS	Columbia, S. C., Jefferson Hotel Bldg.	George T. Barnes (Inc.)	1,010 (297)	1,500
WISJ	Beloit, Wis., Doty and Carrol Sts., Madison, Wis.	Wisconsin State Journal Co.	560 (536)	500
WISN	Milwaukee, Wis., 15 Michigan St.	Evening Wisconsin Co.	1,120 (267.9)	250
WJAC	Johnstown, Pa., 101 Main St.	Johnstown Automobile Co.	1,310 (229)	100
WJAG	Norfolk, Nebr.	Norfolk Daily News	1,060 (283)	1,000
WJAK	Marion, Ind., Fourth and Adams Sts.	Marion Broadcast Co.	1,310 (229)	50
WJAR	Providence, R. I.	The Outlet Co.	890 (337)	1,250
WJAS	North Fayette, Pa., 427 Fourth Ave., Law and Finance Bldg., Pittsburgh, Pa. ³	Pittsburgh Radio Supply House.	1,290 (232.6)	1,400
WJAX	Jacksonville, Fla., Municipal Bldg.	City of Jacksonville	900 (333)	1,000
WJAY	Cleveland, Ohio, 2016 East Ninth St.	Cleveland Radio Broadcasting Corp.	610 (492)	500
WJAZ	Mount Prospect, Ill., 3620 Iron St., Chicago, Ill.	Zenith Radio Corp.	1,490 (201.3)	5,000
WJBC	La Salle, Ill., Joliet St.	Hummer Furniture Co.	1,200 (250)	100
WJBI	Red Bank, N. J., 63 Broad St.	Monmouth Broadcasting Co.	1,210 (247.9)	100
WJBK	Ypsilanti, Mich., 30 North Washington St.	James F. Hopkins (Inc.)	1,370 (219)	50
WJBL	Decatur, Ill., 134 South Water St.	Commodore Broadcasting (Inc.)	1,200 (250)	100
WJBO	New Orleans, La., 119 South St. Patrick St.	Valdemar Jensen	1,420 (211.3)	100
WJBT	Glenview, Ill., 410 North Michigan St. ⁸	Atlas Co. (Inc.)	770 (390)	25,000
WJBU	Louisburg, Pa.	Bucknell University	1,210 (247.9)	100
WJBW	New Orleans, La., 2743 Dumaine St.	C. Carlson	1,200 (250)	30
WJBY	Gadsden, Ala., 110 South Sixth St.	Gadsden Broadcasting Co. (Inc.)	1,210 (247.9)	50
WJDX	Jackson, Miss., (Hinds)	Lamar Life Insurance Co.	1,270 (236.2)	1,500
WJJD	Mooseheart, Ill.	Supreme Lodge of the World Loyal Order of Moose.	1,130 (265.5)	2,000
WJKS	Gary, Ind., 540 North Lake St.	Johnson Kennedy Radio Corp.	1,360 (220.6)	1,000
WJR	Detroit, Mich., (Sylvan Lake) Fisher Bldg.	WJR, The Goodwill Station (Inc.)	750 (400)	1,250
WJSV	Mount Vernon Hills, Va., 339 Pennsylvania Ave., Washington, D. C.	Independent Publishing Co.	1,460 (205.5)	5,000
WJW	Mansfield, Ohio, Park Ave. at Main St.	Mansfield Broadcasting Assn.	1,210 (247.9)	100
WJZ	Bound Brook, N. J., 233 Broadway	R. C. A.	760 (395)	25,000
WKAQ	New York, N. Y. ²⁷ San Juan, P. R., 33 Tetuan St.				Radio Corporation of Porto Rico.	890 (337)	300,000
WKAR	East Lansing, Mich.	Michigan State College	1,040 (288.5)	1,000
WKAV	Laconia, N. H., 97 Morrill St.	Laconia Radio Club	1,310 (229)	100
WKBB	Joliet, Ill., 222 North Chicago St.	Sanders Brothers Radio Station.	1,310 (229)	100
WKBC	Birmingham, Ala., 2021 Second Ave.	R. B. Broyles Furniture Co.	1,310 (229)	100
WKBF	Clermont, Ind., 540½ North Meridian St.	Indianapolis Broadcasting (Inc.)	1,400 (214.3)	500
WKBI	LaCrosse, Wis., 400 State St.	Joseph Callaway	1,380 (217.4)	1,000
WKBN	Chicago, Ill., 1917 Warner Ave.	Fred L. Schoenwolf	1,420 (211.3)	50
WKBO	Youngstown, Ohio, 17 North Champion St.	W. P. Williamson, jr.	570 (520)	500
WKBQ	Jersey City, N. J., 2870 Blvd.	Camith Corp.	1,450 (206.9)	250
WKBS	New York, N. Y., 1100 East One-hundred and seventy-seventh St.	The Standard Cahill Co. (Inc.)	1,350 (222.2)	250
WKBV	Galesburg, Ill., 227 Duffield Ave.	Permil N. Nelson	1,310 (229)	100
WKBW	Connersville, Ind., 932 Eastern Ave.	Knox Battery & Electric Co.	1,500 (200)	1,150
WKBZ	Amherst, N. Y., 1420 Main St., Buffalo, N. Y. ²⁴	WKBW (Inc.)	1,480 (202.7)	5,000
WKJC	Ludington, Mich., 102 East Ludington Ave.	Karl L. Ashbacher	1,500 (200)	50
WKRC	Lancaster, Pa., 16 West King St.	Kirk Johnson & Co.	1,200 (250)	100
WKY	Cincinnati, Ohio, Locus and Alms Place.	WKRC (Inc.)	550 (545)	4,500
WLAC	Oklahoma City, Okla., 500 North Broadway.	WKY Radiophone Co.	900 (333)	5,000
WLAP	Nashville, Tenn., 159 Fourth Ave. North.	Life & Casualty Insurance Co. of Tenn.	1,470 (204.1)	5,000
	Louisville, Ky., 709 Inter-Southern Bldg.	American Broadcasting Corp. of Kentucky.	1,200 (250)	30

See footnotes on p. 183.

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Licensee	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
WLB	St. Paul, Minn.	University of Minnesota	1,250 (240)	1,000
WLB	Muncie, Ind., 2224 South Jefferson St.	D. A. Burton	1,310 (229)	50
WLB	Kansas City, Kans., 300-A East Thirty-third St.	WLB Broadcasting Co.	1,420 (211.3)	100
WLBG	{Ettrick, Va., 126A North Sycamore St., Petersburg, Va. ⁴⁰	Robert Allen Gamble	1,200 (250)	{ 1 100 2 250
WLBL	Stevens Point, Wis., Hotel Whiting	State of Wisconsin, Department of Agriculture & Markets.	900 (333)	2,000
WLBW	{Oil City, Pa., Keith Drake Theatre Bldg.	Radio-Wire Corporation of America.	1,260 (238.1)	{ 1 500 2 1,000
WIBX	Long Island City, N. Y., 38 Crescent St.	John N. Brahy	1,500 (200)	100
WLBZ	Bangor, Me., 100 Main St.	Maine Broadcasting Co. (Inc.)	620 (484)	500
WLCT	Ithaca, N. Y., 109 Oak Ave.	Lutheran Association of Ithaca, N. Y.	1,210 (217.9)	50
WLEX	Lexington, Mass., Adams St.	The Lexington Air Station (Carl S. Wheeler).	1,410 (212.8)	500
WLEY	.....do.....	.....do.....	1,370 (219)	{ 1 100 2 250
WLIB	Elgin, Ill., 435 North Michigan Ave., Chicago, Ill. ⁵	Tribune Co.	720 (417)	25,000
WLIT	Philadelphia, Pa., Eighth and Market Sts.	Lit Brothers	560 (536)	500
WLOE	{Chelsea, Mass., 5 Winthrop Square, Boston, Mass. ²⁵	Boston Broadcasting Co.	1,500 (200)	{ 1 100 2 250
WLS	Crete, Ill., 1230 West Washington Blvd., Chicago, Ill. ⁵	Agricultural Broadcasting Co.	870 (345)	5,000
WLSI	Cranston, R. I., 184 Washington St., Providence, R. I. ³¹	Dutee W. Flint & Lincoln Studios (Inc.)	1,210 (247.9)	100
WLTH	Brooklyn, N. Y., 25 Clark St.	Voice of Brooklyn (Inc.)	1,400 (214.3)	500
WLVA	Lynchburg, Va., 915 Main St.	Lynchburg Broadcasting Corp	1,370 (219)	100
WLW	{Mason, Ohio, 1329 Arlington St., Cincinnati, Ohio. ⁴¹	Crosley Radio Corp.	700 (429)	{ 25,000 50,000
WLWL	Kearny, N. J., 415 West Fifty-ninth St., New York, N. Y. ³⁷	Missionary Society of St. Paul the Apostle.	1,100 (272.7)	5,000
WMAC	Cazenovia, N. Y.	Clive B. Meredith	570 (526)	250
WMAF	Dartmouth, Mass.	Round Hills Radio Corp.	1,410 (212.8)	500
WMAK	Grand Island, N. Y., Rand Bldg., Buffalo, N. Y. ²⁴	WMAK Broadcasting System (Inc.)	1,040 (288.5)	1,000
WMAL	Washington, D. C., 712 Eleventh St.	M. A. Leese	630 (476)	{ 1 250 2 500
WMAN	Columbus, Ohio, 585 East Broad St.	Columbus Broadcasting Corp.	1,210 (247.9)	50
WMAQ	Addison, Ill., 400 West Madison St., Chicago, Ill. ⁸	WMAQ (Inc.)	670 (448)	5,000
WMAZ	St. Louis, Mo., 5010 Cabanne Ave.	{Kingshighway Presbyterian Church.	1,200 (250)	{ 1 100 2 250
WMAZ	Macon, Ga., 419 Broadway	{Macon Junior Chamber of Commerce.	890 (337)	{ 1 250 2 500
WMBA	Newport, R. I., 19 Broadway	Le Roy Joseph Beebe	1,500 (200)	100
WMB	Detroit, Mich., Hotel Savoy	Michigan Broadcasting Co.	1,420 (211.3)	{ 1 100 2 250
WMBD	Peoria Heights, Ill., 107 East Glen Ave.	{Peoria Heights Radio Laboratory (E. M. Kahler).	1,440 (208.3)	{ 1 500 2 1,000
WMBF	Miami Beach, Fla.	{Isle of Dreams Broadcasting Co.	1,300 (230.8)	{ 1 500 2 1,000
WMBG	Richmond, Va., 914 West Broad St.	Havens & Martin (Inc.)	1,210 (247.9)	100
WMBH	Joplin, Mo., 402 Main St.	Edwin Dudley Aber	1,420 (211.3)	{ 1 100 2 250
WMBI	Addison, Ill., 152 Institute Place, Chicago, Ill. ⁸	Moody Bible Institute Radio Station.	1,080 (277.8)	5,000
WMBJ	Wilkinsburg, Pa., (Pentownship) 6933 Thomas Blvd., Pittsburg, Pa.	Rev. John W. Sproul	1,500 (200)	100
WMBQ	Auburn, N. Y., 95 Genesee St.	Radio Service Laboratories	1,310 (229)	100
WMBQ	Brooklyn, N. Y., 95 Leonard St.	Paul J. Gollhofer	1,500 (200)	100
WMBR	Tampa, Fla., 905 Florida Ave.	F. J. Reynolds	1,370 (219)	100
WMC	{Bartlett, Tenn., 30 North Second St., Memphis, Tenn. ⁴²	Memplus Commercial Appeal (Inc.)	780 (385)	{ 1 500 2 1,000
WMCA	Hoboken, N. J., 1697 Broadway, New York, N. Y. ³⁷	Knickerbocker Broadcasting Co. (Inc.)	570 (526)	500
WMMN	Fairmont, W. Va., 325 Adams St.	Holt-Rowe Novelty Co.	890 (337)	{ 1 250 2 500
WMPC	Lapeer, Mich., 81 Liberty St.	First Methodist Protestant of Lapeer.	1,500 (200)	100
WMRJ	Jamaica, N. Y. 146-10 Jamaica Ave.	Peter J. Prinz	1,210 (247.9)	10
WMSG	New York, N. Y., 319 West Fortyninth St.	Madison Square Garden Broadcast Corp.	1,350 (222.2)	250
WMT	{Waterloo, Iowa, Third and Lafayette Sts.	Waterloo Broadcasting Co.	600 (500)	{ 4 250 5 500

See footnotes on p. 183.

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Licensee	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
WNAC	Quincy, Mass., 30 Winter St., Boston, Mass. ²⁵	Shepard Broadcasting Service (Inc.)	1, 230 (243.9)	1, 000
WNAD	Norman, Okla.	University of Oklahoma	1, 010 (297)	500
WNAX	Yankton, S. Dak., Second and Capitol Sts.	Gurney Seed & Nursey Co.	570 (526)	1, 000
WNBK	Binghamton, N. Y., Arlington Hotel.	Howitt-Wood Radio Co. (Inc.)	1, 500 (200)	100
WNBH	New Bedford, Mass, 725 Pleasant St.	New Bedford Broadcasting Co.	1, 310 (229)	100
WNBK	Knoxville, Tenn., 122 West Connecticut Ave.	Stuart Broadcasting Corp.	1, 310 (229)	50
WNBO	Washington, Pa. (Silver Haven), 319 East Beati St.	John Brownlee Spriggs	1, 200 (250)	100
WNBR	Memphis, Tenn., 883 Poplar Blvd.	Memphis Broadcasting Co.	1, 430 (209.8)	500
WNBW	Carbondale, Pa., 50 Main St. North	Home Cut Glass & China Co. (G. F. Chiessler & M. E. Stephens)	1, 200 (250)	10
WNBX	Springfield, Vt.	First Congregational Church Corporation	1, 200 (250)	10
WNBZ	Saranac Lake, N. Y., 70 Broadway	Smith and Mace	1, 290 (232.6)	50
WNJ	Newark, N. J., 58 Market St.	Radio Investment Co. (Inc.)	1, 450 (206.9)	250
WNOX	Knoxville, Tenn., 114 South Gay St.	Sterchi Bros.	1, 560 (536)	1, 1, 000 2, 2, 000
WNRC	Greensboro, N. C., Box 421	Wayne M. Nelson	1, 440 (208.3)	500
WNYC	New York, N. Y., Center and Duane Sts.	City of New York, Department of Plant and Structures	570 (526)	500
WOAI	San Antonio, Tex., Navarro and St. Mary's Sts.	Southern Equipment Co.	1, 190 (252.1)	5, 000
WOAN	Whitehaven, Tenn., Hotel Peabody, Memphis, Tenn. ⁴²	WREC (Inc.)	600 (500)	1, 500 2, 1, 000
WOAX	Trenton, N. J., 600 West Ingham Ave.	WOAX (Inc.)	1, 280 (234.4)	500
WOBT	Union City, Tenn., 114 South First St.	(Tittsworth's Radio & Music Shop)	1, 310 (229)	1, 100 2, 250
WOBU	Charleston, W. Va., Hotel Ruffner	WOBU (Inc.)	580 (517)	250
WOC	Davenport, Iowa, 1002 Brady St.	Central Broadcasting Co.	1, 000 (300)	5, 000
WOCL	Jamestown, N. Y., 840 North Main St.	A. E. Nowton	1, 210 (247.9)	25
WODA	Pateron, N. J., 115 Ellisou St.	Richard E. O'Dea	1, 250 (240)	1, 000
WODX	Springhill, Ala., Royal and St. Francis Sts., Mobile, Ala. ⁴³	Mobile Broadcasting Corp. (Scott Holt, trustee)	1, 410 (212.8)	500
WOI	Ames, Iowa	Iowa State College of Agricultural & Mechanical Arts	640 (469)	4, 3, 500 5, 5, 000
WOKO	Mt. Beacon, N. Y., Box 128 ⁴⁴	Hudson Valley Broadcasting Co. (Harold E. Smith & R. M. Curtis)	1, 440 (208.3)	500
WOL	Washington, D. C., Hotel Annapolis	American Broadcasting Co.	1, 310 (229)	100
WOMT	Manitowoc, Wis., 1110 Washington St.	Francis M. Kadow	1, 210 (247.9)	100
WOOD	Farmwood, Mich., Watson Bldg., Grand Rapids, Mich. ⁴⁵	Walter B. Stiles (Inc.)	1, 270 (236.2)	500
WOPI	Bristol, Tenn., Corner State and Twenty-second St.	Radiophone Broadcasting Station WOPI (Inc.)	1, 500 (200)	100
WOQ	Kansas City, Mo., 917 Tracey Ave.	Unity School of Christianity	1, 300 (230.8)	1, 000
WOR	Kearny, N. J., 147 Market St., Newark, N. J. ⁴⁶	Bamberger Broadcasting Service (Inc.)	710 (423)	5, 000
WORC	Auburn, Mass., 60 Franklin St., Worcester, Mass. ⁴⁷	Alfred Frank Kleindienst	1, 200 (250)	100
WORD	Batavia, Ill., 124 Columbia Heights, New York, N. Y. ⁴⁸	Peoples Pulpit Association	1, 490 (201.3)	5, 000
WOS	Jefferson City, Mo., Capitol Bldg.	Missouri State Marketing Bureau	630 (476)	500
WOV	Secaucus, N. J., 16 East Forty-second St. ⁴⁷	International Broadcasting Corp.	1, 130 (265.5)	1, 000
WOW	Omaha, Nebr., Farnam at Fourteenth St.	Woodmen of the World Life Insurance Assn.	590 (509)	1, 000
WOWO	Fort Wayne, Ind., 213 West Main St.	Main Auto Supply Co.	1, 160 (258.6)	10, 000
WPAD	Paducah, Ky., Ritz Hotel	Paducah Broadcasting Co. (Pierce E. Lackey & Fred W. Olcott)	1, 420 (211.3)	100
WPAP	Cliffside, N. J., 135 West Seventieth St., New York, N. Y. ⁴⁷	Palisades Amusement Park	1, 010 (297)	250
WPAW	Pawtucket, R. I., 260 Main St.	Shartenberg & Robinson Co.	1, 210 (247.9)	100
WPCC	Chicago, Ill., 1011 Wilson Ave.	North Shore Congregational Church	560 (536)	500
WPCH	Hoboken, N. J., 1697 Broadway, New York, N. Y. ⁴⁷	Eastern Broadcasters (Inc.)	810 (370)	500
WPEN	Philadelphia, Pa., 217 South Broad St.	Wm. Penn Broadcasting Co.	1, 500 (200)	1, 100 2, 250
WPG	Atlantic City, N. J., Convention Hall	WPG Broadcasting Corp.	1, 100 (272.7)	5, 000
WPOE	Patchogue, N. Y., Merrick Road	Nassau Broadcasting Corp.	1, 370 (219)	100
WPOK	Norfolk, Va., Commerce Bldg.	WTA R Radio Corp.	780 (365)	500
WPSC	State College, Pa.	Pennsylvania State College	1, 230 (243.9)	500
WPTF	Raleigh, N. C., 324 Fayetteville St.	Durham Life Insurance Co.	680 (441)	1, 000

See footnotes on p. 183.

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Licensee	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
WQAM	Miami, Fla., McAllister Hotel.....	Miami Broadcasting Co.....	560 (536)	1,000
WQAN	Scranton, Pa.....	The Scranton Times.....	880 (341)	250
WQAO	Cliffside, N. J., 135 West Seventieth St., New York, N. Y. ²⁷	Calvary Baptist Church.....	1,010 (297)	250
WQBC	Vicksburg, Miss., 1717 Washington St.	Delta Broadcasting Company (Inc.).....	1,360 (220.6)	300
WQDM	St. Albans, Vt., 16 Kingman St.....	A. J. St. Antoine.....	1,370 (219)	5
WQDV	Tupelo, Miss.....	W. A. Blair & John R. Anderson.....	1,500 (200)	100
WQDX	Thomasville, Ga.....	Stevens Luke.....	1,210 (247.9)	50
WRAF	Laporte, Ind., 719 Mich. Ave.....	Charles Middleton.....	1,200 (250)	100
WRAC	Williamsport, Pa., 422 Williams St.....	Clarence R. Cummins.....	1,370 (219)	50
WRAW	Reading, Pa., 460 Schuylkill Ave.....	Avenue Radio & Electric Shop (Horace D. Good).....	1,310 (229)	50
WRAX	Philadelphia, Pa., 1608 West Alleghany Ave.	Berachah Church (Inc.).....	1,020 (294.1)	250
WRBI	Tifton, Ga., 220 East Second St.....	Kents Furniture and Music Store.....	1,310 (229)	20
WRBJ	Hattiesburg, Miss., 119 West Pine St.....	Woodruff Furniture Co. (Inc.).....	1,370 (219)	10
WRBL	Columbus, Ga., 1307 Broadway.....	David Parmer.....	1,200 (250)	50
WRBQ	Greenville, Miss., Leland Highway.....	J. Pat Scully.....	1,210 (247.9)	100
WRBT	Wilmington, N. C., 318 North Front St.	Wilmington Radio Association (Inc.).....	1,370 (219)	100
WRBU	Gastonia, N. C., 245 East Main St.....	A. J. Kirby Music Co.....	1,210 (247.9)	100
WRBX	Roanoke, Va.....	Richmond Development Corp.....	1,410 (212.8)	250
WRC	Washington, D. C., Press Bldg.....	R. C. A.....	950 (316)	500
WRDO	Augusta, Me.....	Albert S. Woodman.....	1,370 (219)	100
WRDW	Augusta, Ga., 308 Eighth St.....	Warren C. Davenport's Music-cove (Inc.).....	1,500 (200)	100
WREC	Whitehaven, Tenn., Peabody Hotel, Memphis, Tenn. ⁴²	WREC (Inc.).....	600 (500)	1,500
WREN	Lawrence, Kans., 64 Massachusetts St.	Jenny Wren Co.....	1,220 (245.9)	1,000
WRHM	Fridley, Minn., 115 East Grant St., Minneapolis, Minn. ²⁶	Minnesota Broadcasting Corp.....	1,250 (240)	1,000
WRJN	Racine, Wis., Main and Sixth Sts.....	Racine Broadcasting Corp.....	1,370 (219)	100
WRK	Hamilton, Ohio, R. R. 3.....	Hamilton Radio Service (S. W. Doron & John C. Slade).....	1,310 (229)	100
WRNY	Coytesville, N. J., 20 Pine St., New York, N. Y. ²⁷	Aviation Radio Station (Inc.).....	1,010 (297)	250
WRR	Dallas, Tex., Jefferson Hotel.....	City of Dallas, Tex.....	1,280 (234.4)	500
WRUF	Gainesville, Fla.....	University of Florida.....	830 (361)	5,000
WRVA	Mechanicsville, Va., Twenty-second and Cary Sts., Richmond, Va. ²⁷	Larus & Brother Co. (Inc.).....	1,110 (270.3)	5,000
WSAI	Mason, Ohio, 1329 Arlington St., Cincinnati, Ohio. ⁴¹	Crosley Radio Corp. (Lessee) United States Playing Card Co.....	1,330 (225.6)	500
WSAJ	Grove City, Pa., Broad and Main Sts.....	Grove City College.....	1,310 (229)	100
WSAN	Allentown, Pa., 101 North Sixth St.....	Call Publishing Co. (Inc.).....	1,440 (208.3)	250
WSAR	Fall River, Mass., 32 North Main St.....	Doughty & Welch Electrical Co. (Inc.).....	1,450 (206.9)	250
WSAZ	Huntington, W. Va., 929½ Fourth Ave.	WSAZ (Inc.).....	580 (517)	250
WSB	Atlanta, Ga., Seventh and North Forsyth Sts.	Atlanta Journal Co.....	740 (405)	5,000
WSBC	Chicago, Ill., 1250 South Michigan Ave.	World Battery Co. (Inc.).....	1,210 (247.9)	100
WSBT	South Bend, Ind., 225 West Colfax Ave.	South Bend Tribune.....	1,230 (243.9)	500
WSDA	Brooklyn, N. Y., 135 Eastern Parkway.	Paramount Broadcasting Corporation.....	1,400 (214.3)	500
WSFA	Montgomery, Ala., corner Montgomery and Catoma Sts.	Montgomery Broadcasting Co. (Inc.).....	1,410 (212.8)	500
WSGH	Brooklyn, N. Y., 135 Eastern Parkway.	Paramount Broadcasting Corporation.....	1,400 (214.3)	500
WSIX	Springfield, Tenn., Public Square.....	638 Tire & Vulcanizing Co.....	1,210 (247.9)	100
WSJG	Winston-Salem, N. C., 416 North Marshall St.	Winston-Salem Journal Co.....	1,310 (229)	100
WSM	Nashville, Tenn., 301 Seventh Ave., North.	National Life & Accident Insurance Co.....	650 (462)	5,000
WSMB	New Orleans, La., 1401 Tulane Ave.....	Saenger Theatres (Inc.) & Maison Blanche Co.....	1,320 (227.3)	500
WSMK	Dayton, Ohio, U. B. Bldg.....	Stanley M. Krohn, jr.....	1,380 (217.4)	200
WSPA	Spartanburg, S. C., Montgomery Bldg.	The Voice of South Carolina (Virgil E. Evans).....	1,420 (213.3)	1,100
WSPD	Toledo, Ohio, Commodore Peary Hotel.	Toledo Broadcasting Co.....	1,340 (223.9)	1,500
WSSH	Boston, Mass., 88 Tremont St.....	Tremont Temple Baptist Church.....	1,410 (212.8)	1,000
WSUI	Iowa City, Iowa.....	State University of Iowa.....	880 (341)	500

See footnotes on p. 183.

BROADCASTING STATIONS, ALPHABETICALLY BY CALL SIGNALS—Continued

Call signal	Location of transmitter and mail address	Licensee	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)
WSUN	St. Petersburg, Fla.....	Clearwater Chamber of Commerce & St. Petersburg Chamber of Commerce.....	620 (484)	{ 1,000 2,500
WSVS	Buffalo, N. Y., 666 East Delavan Ave.....	Seneca Vocational High School.....	1,370 (219)	50
WSYR	Syracuse, N. Y., Hotel Syracuse.....	Clive B. Meredith.....	570 (526)	250
WTAD	Quincy, Ill., 600 State St.....	Illinois Stock Medicine Broadcasting Corporation.....	1,440 (208.3)	500
WTAG	Worcester, Mass., 20 Franklin St.....	Worcester Telegram Publishing Co., (Inc.).....	580 (517)	250
WTAM	Brecksville, Ohio, 1367 East Sixth St., Cleveland, Ohio. ⁴⁸	}WTAM (Inc.).....	1,070 (280.4)	{ 25,000 50,000
WTAQ	Eau Claire, Wis. (Washington), 799 Wisconsin St.....	Gillette Rubber Co.....	1,330 (225.6)	1,000
WTAR	Norfolk, Va., Commerce Bldg.....	WTAR Radio Corporation.....	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., Commercial Bank Bldg.....	Associated Broadcasting Corp.....	1,420 (211.3)	100
WTFI	Toccoa, Ga., Corner Tugalo and Savannah Sts.....	Toccoa Falls Institute.....	1,450 (206.9)	500
WTIC	Avon, Conn., Avon Mt. 700 Main St., Hartford, Conn. ⁴⁹	The Travelers Broadcasting Service Corporation.....	1,060 (283)	{ 25,000 50,000
WTMJ	Brookfield, Wis., Fourth and State Sts., Milwaukee, Wis. ⁵⁰	The Journal Co. (Milwaukee Journal).....	620 (484)	{ 1,000 2,500
WTNT	Nashville, Tenn., 222 Fourth Ave., North.....	Tennessee Publishing Co.....	1,470 (204.1)	5,000
WTOC	Savannah, Ga., De Soto Hotel.....	Savannah Broadcasting Co.....	1,260 (238.1)	500
WWAE	Hammond, Ind., Hammond Times Bldg.....	Hammond Calumet Broadcasting Corporation.....	1,200 (250)	100
WWJ	Detroit, Mich., 615 West LaFayette Blvd.....	Evening News Assn. (Inc.)....	920 (326)	1,000
WWL	New Orleans, La.....	Loyola University.....	850 (353)	5,000
WWNC	Asheville, N. C., 815 Flatiron Bldg.....	Citizen Broadcasting Co. (Inc.).....	570 (526)	1,000
WWRL	Woodside, N. Y., 4130 Fifty-eighth St.....	Long Island Broadcasting Corporation.....	1,500 (200)	100
WWVA	Wheeling, W. Va., 1229 Main St.....	West Virginia Broadcasting Corporation.....	1,160 (258.6)	5,000
WXYZ	Detroit, Mich., 5057 Woodward Ave.....	Kunsky-Trendle Broadcasting Corporation.....	1,240 (241.9)	1,000

¹ Night.
² Day.
³ Studio in Pittsburgh.
⁴ Normally.
⁵ Experimentally.
⁶ Night experimentally.
⁷ When using WREN transmitter.
⁸ Studio in Chicago.
⁹ Operates only during daytime.
¹⁰ Studio in Kansas City, Mo.
¹¹ Studio in Houston.
¹² Only construction permit issued.
¹³ Studio in Oakland.
¹⁴ Studio in St. Paul.
¹⁵ Studio in San Francisco.
¹⁶ Day experimentally.
¹⁷ Studio in Fort Worth.
¹⁸ When WCAU is operating.
¹⁹ Studio in Tacoma.
²⁰ Studio in Shreveport.
²¹ Power 36/5. Meter amperes.
²² Studio in Baltimore.
²³ Studio in Wilkes Barre.
²⁴ Studio in Buffalo.
²⁵ Studio in Boston.

²⁶ Studio in Minneapolis.
²⁷ Studio in New York City.
²⁸ Studio in Yonkers.
²⁹ Studio in Portland, Me.
³⁰ Studio in Chattanooga.
³¹ Studio in Providence.
³² Studio in Worcester.
³³ Studio in Dallas.
³⁴ Studio in Gulfport.
³⁵ Studio in Rochester.
³⁶ Studio in Louisville.
³⁷ Studio in Harrisburg.
³⁸ Studio in Bridgeport.
³⁹ Studio in Alexandria.
⁴⁰ Studio in Petersburg.
⁴¹ Studio in Cincinnati.
⁴² Studio in Memphis.
⁴³ Studio in Mobile.
⁴⁴ Studio in Poughkeepsie.
⁴⁵ Studio in Grand Rapids.
⁴⁶ Studio in Newark.
⁴⁷ Studio in Richmond.
⁴⁸ Studio in Cleveland.
⁴⁹ Studio in Hartford.
⁵⁰ Studio in Milwaukee.

BROADCASTING STATIONS, BY FREQUENCIES

Frequency in kilo-cycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	Frequency in kilo-cycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter		
550 (545)	1,000	WGR	Amherst, N. Y.	610 (492)	1,000	WDAF	Kansas City, Mo.		
	500	WKRC	Cincinnati, Ohio.		500	WFAN	Philadelphia, Pa.		
	1,000	KFDY	Brookings, S. Dak.		500	WIP	Do.		
	500				500	WJAY	Cleveland, Ohio.		
	1,000	KFUO	Clayton, Mo.		1,000	KFRC	San Francisco, Calif.		
	500				620 (484)	1,000	WFLA	Clearwater-St. Petersburg, Fla.	
	1,000					500	WSUN	Bangor, Me.	
	560 (536)	500	KFDY		Bismarck, N. Dak.	630 (476)	500	WLBZ	Brookfield, Wis.
		1,000	KOAC		Corvallis, Oreg.		1,000	WTMJ	Portland, Oreg.
		500					KSD	St. Louis, Mo.	1,000	KGW	Phoenix, Ariz.
500		WFI	Philadelphia, Pa.	1,000	KTAR		Evansville, Ind.		
1,000		}WBIO	Desplaines, Ill.	1,000	WGBF		Washington, D. C.		
1,500				}WAL	Beloit, Wis.		1,250	WOS	Jefferson City, Mo.
500		WLIT	Philadelphia, Pa.				500	KFRU	Columbia, Mo.
1,000		}WNOX	Knoxville, Tenn.	640 (469)	500		WAIU	Columbus, Ohio.	
2,000					}WPC		Chicago, Ill.	3,500	WOU	Ames, Iowa.
500		WQAM	Miami, Fla.	5,000				}KFI	Los Angeles, Calif.
1,000		}KFD	Beaumont, Tex.	650 (462)	5,000		WSM			Nashville, Tenn.
1,000					KLZ		Denver, Colo.	100	KPCB	Seattle, Wash.
570 (526)		1,000	KTAB	Beloit, Wis.	500		WAAW	Omaha, Nebr.	
570 (526)		750	WEO	Columbus, Ohio.	660 (455)		25,000	}WEAF	Bellmore, N. Y.
		500	WKBN	Youngstown, Ohio.			50,000			WMAQ	Addison, Ill.
	250	WMAC	Cazenovia, N. Y.	670 (448)		1,000	WPTF	Raleigh, N. C.	
	500	WMCA	Hoboken, N. J.			680 (441)	2,500	KFEQ	St. Joseph, Mo.
	1,000	WNAX	Yankton, S. Dak.	5,000			KPO	San Francisco, Calif.	
	500	WNYC	New York City, N. Y.	700 (429)		25,000	}WLW	Mason, Ohio.	
	250	WSYR	Syracuse, N. Y.			50,000			WOR	Kearny, N. J.
	1,000	WWNC	Asheville, N. C.	710 (423)		5,000	}KMPC	Beverly Hills, Calif.	
	1,250	}KGK	Wichita Falls, Tex.			720 (417)			25,000	WGN	Elgin, Ill.
	2,500			KMTR			Los Angeles, Calif.	726 (413)	1,000	KZRM	Manila, P. I.
	500	KXA	Seattle, Wash.	740 (405)		5,000	WSB		Atlanta, Ga.
	1,500	}WIBW	Topeka, Kans.			750 (400)	1,000	KMMJ	Clay Center, Nebr.
	250			WOB			Charleston, W. Va.	5,000	WJR	Detroit (Sylvan Lake), Mich.
	580 (517)	250	WSAZ	Huntington, W. Va.		760 (395)	1,000	WEW	St. Louis, Mo.
		250	WTAG	Worcester, Mass.			770 (390)	25,000	}WB	Glenview, Ill.
200		KGFX	Pierre, S. Dak.	5,000	KFAB			Lincoln, Nebr.	
1,500		KSAC	Manhattan, Kans.	780 (385)	1,250		}WEAN	Providence, R. I.	
1,000		}WCAJ	Lincoln, Nebr.		2,500				WMC	Bartlett, Tenn.
1,000				WEEI	Weymouth, Mass.		1,000	WTAR	Norfolk, Va.
590 (509)		1,000	WEMC	Berrien Springs, Mich.	790 (380)		500	WPOR	Burbank, Calif.
		1,000	WOW	Omaha, Nebr.			1,500	KELW	Santa Monica, Calif.
		1,000	}KHQ	Spokane, Wash.			1,000	WTM	Calif.
		2,000					WCAC	Storrs, Conn.	1,000	WGY	Schenectady, N. Y.
	250	WCAO	Baltimore, Md.	790 (380)		50,000	}KGO	Oakland, Calif.	
	250	}WGBS	Astoria, N. Y.			7,500			
	1,250			}WMT		Waterloo, Iowa.	500		
	500	WREC	Whitehaven, Tenn.				1,000		
	1,000	WOAN	Tenn.	1,000					
	1,500	}KFSD	San Diego, Calif.	1,000					
2,000									

See footnotes on page 189.

BROADCASTING STATIONS, BY FREQUENCIES—Continued

Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter
800 (375)	10,000 25,000 50,000	WBAP WFAA	Grapevine, Tex. Do.	930 (323)	50 500	WIBG KFWI	Elkins Park, Pa. San Francisco, Calif.
810 (370)	7,500	WCCO	Anoka (St. Paul-Minneapolis), Minn.		1,500 2,1,000 1,500	KGBZ KMA	York, Nebr. Shenandoah, Iowa.
	500 10,000	WPCH WHAS	Hoboken, N. J. Jeffersontown, Ky.		1,500 2,1,000	KROW	Richmond, Calif.
830 (361)	1,000 5,000 12,500	WHDH WRUF KOA	Gloucester, Mass. Gainesville, Fla. Denver, Colo.	940 (319)	300 1,000 1,000	WAAT WCSH WDAY	Jersey City, N. J. Madison, Wis. West Fargo, N. Dak.
850 (353)	5,000 10,000	WWL KWKH	New Orleans, La. Kennonwood, La.		1,000 750 1,000	WFIW WHA KGU	Hopkinsville, Ky. Madison, Wis. Honolulu, Hawaii.
860 (349)	5,000 500	WABC WBOQ WHB	New York, N. Y. North Kansas City, Mo.		1,000	KOIN	Portland (Sylvan), Oreg.
	1,500 2,1,000	KMO	Tacoma, Wash.	950 (316)	500	WRC	Washington, D. C.
870 (345)	25,000 50,000 5,000	WENR WBCN WLS	Downers Grove, Ill. Crete, Ill.		1,000	KFWB	Hollywood, Calif.
880 (341)	1,500 2,1,000 250 250 500	WCOC WGBI WQAN WSUI	Meridian, Miss. Scranton, Pa. Do. Iowa City, Iowa.		500 1,000	KGHL KMBC	Billings, Mont. Independence, Mo.
	1,500 2,1,000 500 500	KFKA KLX KPOF	Greeley, Colo. Oakland, Calif. Bellevue College, Colo.	970 (309)	1,500 5,000	WCFL KJR	Chicago, Ill. Seattle, Wash.
	500 500			980 (306)	25,000 50,000	KDKA	Wilkinsburg, Pa.
890 (337)	1,250 2,500 1,250 2,500 1,250 3,400 500	WGST WILL WJAR WKAQ	Atlanta, Ga. Urbana, Ill. Providence, R. I. San Juan, P. R.	990 (303)	500 5,000 5,000	WBZA WOC WHO	East Springfield, Mass. Boston, Mass. Davenport, Iowa. Des Moines, Iowa.
	1,250 2,500 1,250 2,500 1,250 2,500 1,500 2,1,000 250	WMAZ WMMAN KFNF KGJF	Macon, Ga. Fairmont, W. Va. Shenandoah, Iowa. Little Rock, Ark.	1,000 (300)	250 5,000 5,000	KFVD WHN WIS	Culver City, Calif. New York, N. Y. Columbia, S. C.
	1,250 2,500 2,500 1,250 2,500 1,500 2,1,000 250	WMAZ WMMAN KFNF KGJF	Macon, Ga. Fairmont, W. Va. Shenandoah, Iowa. Little Rock, Ark.	1,010 (297)	250 1,500 2,1,000	WNAD WQAO WPAP	Norman, Okla. Chilfside, N. J.
	1,250 2,500 2,500 1,250 2,500 1,500 2,1,000 250	WMMAN KFNF KGJF	Fairmont, W. Va. Shenandoah, Iowa. Little Rock, Ark.		250 250 500 500 250	WLNK KGGF KQW WRAX	Coytesville, N. J. Picher, Okla. San Jose, Calif. Philadelphia, Pa.
	1,500 2,1,000 250	KFNF KGJF	Shenandoah, Iowa. Little Rock, Ark.	1,020 (294.1)	250	KYV KFKX	Bloomingsdale, Ill.
900 (333)	5,000 2,750 1,000 1,000 1,000 2,000 500 1,000	KUSD WBEN WJAX WKY WLBL KGBU KHJ	Vermillion, S. Dak. Martinsville, N. Y. Jacksonville, Fla. Oklahoma City, Okla. Stevens Point, Wis. Ketchikan, Alaska. Los Angeles, Calif.	1,040 (288.5)	10,000 1,000 1,000	WKAR WMAK	East Lansing, Mich. Grand Island, N. Y.
	1,000 1,000 2,000 500 1,000	WJAX WKY WLBL KGBU KHJ	Jacksonville, Fla. Oklahoma City, Okla. Stevens Point, Wis. Ketchikan, Alaska. Los Angeles, Calif.		10,000 10,000 5,000 5,000	KRLD KTHS KFKB KNX	Dallas, Tex. Hot Springs, Ark. Milford, Kans. Los Angeles, Calif.
	1,000 1,000 250 500 250	KGBU KHJ KSEI WAAF WBSO	Ketchikan, Alaska. Los Angeles, Calif. Pocatello, Idaho. Chicago, Ill. Wellesley Hills, Mass.	1,060 (283)	10,000	WBAL	Glen Morris, Md.
920 (326)	1,000 1,500 6,500 1,500 6,500 1,000 1,1,000 2,2,500	WWJ KFEL KFXF KOMO KPRC	Detroit, Mich. Denver, Colo. Do. Seattle, Wash. Sugarland, Tex.	1,070 (280.4)	1,000 25,000 50,000 50 100 25,000 50,000 100	WJAG WTIC KWJJ WCAZ WDZ WTAM KJBS	Norfolk, Nebr. Avon, Conn. Portland, Oreg. Carthage, Ill. Tuscola, Ill. Brecksville Village, Ohio. San Francisco, Calif.
930 (323)	1,500 1,000 1,250 2,500	WBRC WDBJ	Birmingham, Ala. Roanoke, Va	1,080 (277.8)	5,000 5,000 5,000 5,000	WBT WCBF WMBI KMOX	Charlotte, N. C. Zion, Ill. Addison, Ill. Kirkwood, Mo.

See footnotes on p. 183.

BROADCASTING STATIONS, BY FREQUENCIES—Continued

Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	
1,100 (272.7)	5,000	WLWL	Kearny, N. J.	1,200 (250)	100	WRAF	LaPorte, Ind.	
	5,000	WPG	Atlantic City, N. J.		50	WRBL	Columbus, Ga.	
1,110 (270.3)	250	KGDM	Stockton, Calif.	100	WVAE	Hammond, Ind.		
	5,000	WRVA	Mechanicsville, Va.	100	KBTM	Paragould, Ark.		
	100	KZKZ	Manila, P. I.	50	KFHA	Gunnison, Colo.		
	2,000	KSOO	Sioux Falls, S. Dak.	100	}KFJB	{	Marshalltown, Iowa.	
1,120 (267.9)	1,500	}WDBO	Orlando, Fla.	250				100	KFWF	St. Louis, Mo.
	1,000			100	KGCU	Mandan, N. Dak.		
1,130 (265.5)	1,250	WDEL	Wilmingon, Del.	100	100	KGDE	Fergus Falls, Minn.	
	350	}WHAD	Milwaukee, Wis.	15	50	KGEK	Oldham, S. Dak.	
	250			100	KGEW	Yuma, Colo.		
	500	WTAW	College Station, Tex.	100	100	KGFJ	Fort Morgan, Colo.	
	100	KFIO	Spokane, Wash.	100	100	KGHI	Los Angeles, Calif.	
	500	KFSG	Los Angeles, Calif.	10	100	KGY	Little Rock, Ark.	
	500	KMIC	Inglewood, Calif.	50	50	KMLB	Lacey, Wash.	
	50	KRSC	Seattle, Wash.	100	100	KSMR	Monroe, La.	
	500	KTRH	Houston, Tex.	100	100	}KVOS	{	Santa Maria, Calif.
	20,000	WJJD	Moeseheart, Ill.	100	100				Bellingham, Wash.
	1,000	WQV	Secaucus, N. J.	100	100	KWG	Stockton, Calif.	
	5,000	KSL	Salt Lake City, Utah.	100	100	KXO	El Centro, Calif.	
1,140 (263.2)	5,000	WAPI	Birmingham, Ala.	1,210 (247.9)	100	WALR	Zanesville, Ohio.	
	5,000	KVOO	Tulsa, Okla.		100	100	WBAX	Plains, Pa.
1,150 (260.9)	5,000	WHAM	Victor Township, N. Y.	100	100	WBBL	Richmond, Va.	
1,153 (260)	20	KZIB	Manila, P. I.	100	100	WCBS	Springfield, Ill.	
1,160 (258.6)	10,000	WOWO	Fort Wayne, Ind.	100	100	WCOH	Greenville, N. Y.	
	5,000	WVVA	Wheeling, W. Va.	100	100	WCRW	Chicago, Ill.	
1,170 (256.4)	10,000	WCAU	Byberry, Pa.	100	}WDFW	{	Cranston, R. I.	
1,000	}KTNT	Muscatine, Iowa.	100	100				WEBQ	Harrisburg, Ill.
5,000			100	WEDC	Chicago, Ill.			
1,180 (254.2)	1,000	WDGY	Minneapolis, Minn.	100	100	WGBB	Freeport, N. Y.	
	500	WHDI	Do.	100	100	WGCM	Mississippi City, Miss.	
	5,000	KEX	Portland, Ore.	100	100	WHBF	Rock Island, Ill.	
1,190 (252.1)	20,000	KOB	State College, N. Mex.	100	100	WHBU	Anderson, Ind.	
	500	WICC	Easton, Conn.	100	100	WIBA	Madison, Wis.	
1,200 (250)	5,000	WOAI	San Antonio, Tex.	100	100	WJBI	Red Bank, N. J.	
	100	WABI	Bangor, Me.	100	100	WJBU	Lewisburg, Pa.	
	100	WABZ	New Orleans, La.	50	100	WJBY	Gadsden, Ala.	
	100	WBBZ	Ponca City, Okla.	100	100	WJV	Mansfield, Ohio.	
	100	WCAT	Rapid City, S. Dak.	50	100	WLCI	Ithaca, N. Y.	
	100	WCAX	Burlington, Vt.	50	100	WMAN	Columbus, Ohio.	
	100	WCLO	Kenosha, Wis.	100	100	WMBG	Richmond, Va.	
	100	WCOD	Harrisburg, Pa.	10	100	WMRJ	Jamaica, N. Y.	
	100	}WEHC	Emory, Va.	25	100	WOCL	Jamestown, N. Y.	
	100			100	WOMT	Manitowoc, Wis.		
	100	WFBC	Knoxville, Tenn.	100	100	WPAW	Pawtucket, R. I.	
	100	}WFBE	Cincinnati, Ohio.	50	100	WQDX	Thomasville, Ga.	
100	100			WRBQ	Greenville, Miss.			
10	WHBC	Canton, Ohio.	100	100	WRBU	Gastonia, N. C.		
100	WHBY	West De Pere, Wis.	100	100	WSBC	Chicago, Ill.		
100	}WIBX	Utica, N. Y.	100	100	WSIX	Springfield, Tenn.		
100			50	WTAX	Streator, Ill.			
1,200 (250)	100	}WIL	St. Louis, Mo.	100	100	KDFN	Casper, Wyo.	
	100			100	KDLR	Devils Lake, N. Dak.		
	100	100	WJBC	La Salle, Ill.				
	100	100	WJBL	Deatur, Ill.				
	30	WJBW	New Orleans, La.	100	100	KFOR	Lincoln, Nebr.	
	100	WKJC	Lancaster, Pa.	100	100	KFVS	Cape Girardeau, Mo.	
	30	WLAP	Louisville, Ky.	100	100	KFXM	San Bernadino, Calif.	
	100	}WLBG	Ettrick, Va.	100	100	KGCR	Watertown, S. Dak.	
	100			100	KGMP	Elk City, Okla.		
	100	WMAV	St. Louis, Mo.	100	100	KGNO	Dodge City, Kans.	
	100	WNBO	Silver Haven, Pa.	100	100	KMJ	Fresno, Calif.	
	10	WNBW	Carbondale, Pa.	50	100	KPPC	Pasadena, Calif.	
10	WNBX	Springfield, Vt.	100	100	KWEA	Shreveport, La.		
100	WORC	Auburn, Mass.	100	100				
100	WEPS							

See footnotes on p. 183.

BROADCASTING STATIONS, BY FREQUENCIES—Continued

Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter
1, 220 (245. 9)	500	WCAD	Canton, N. Y.	1, 300 (230. 8)	1, 000	WBBR	Rossville, N. Y.
	500	WCAE	Pittsburgh, Pa.		500	WEVD	Forest Hills, N. Y.
	1, 000	WDAE	Tampa, Fla.		1, 000	WHAP	Carlstadt, N. J.
	1, 000	WREN	Lawrence, Kans.		500	WHAZ	Troy, N. Y.
	500	KFKU	Do.		1, 500	WIOD	Miami Beach, Fla.
	1, 000	KWSC	Pullman, Wash.		251, 000	WMBF	Cebu, P. I.
	500	WFBM	Indianapolis, Ind.		(*)	KZRC	Kansas City, Mo.
	1, 000	WNAC	Quincy, Mass.		1, 000	WOQ	Wichita, Kans.
	1, 000	WBLS	State College, Pa.		500	KFJR	Portland, Ore.
	500	WFSB	South Bend, Ind.		1, 000	KGEF	Los Angeles, Calif.
1, 230 (243. 9)	500	KFQD	Anchorage, Alaska.	1, 000	KTBI	Do.	
	100	KGGM	Albuquerque, N. Mex.	500	KTBR	Portland, Ore.	
	125	KYA	San Francisco, Calif.	50	WAGM	Royal Oak, Mich.	
	300			100	WBOW	Terre Haute, Ind.	
	1, 000	WACO	Waco, Tex.	100	WBRE	Wilkes-Barre, Pa.	
	1, 000	WXYZ	Detroit, Mich.	100	WCLS	Joliet, Ill.	
	1, 000	KTAT	Birdville, Tex.	100	WCSC	Charleston, S. C.	
	1, 000	WAAM	Newark, N. J.	225	WDAH	El Paso, Tex.	
	2, 000	WCAL	Northfield, Minn.	100	WEBR	Buffalo, N. Y.	
	1, 000	WDSU	New Orleans, La.	160	WFBG	Altoona, Pa.	
1, 250 (240)	1, 000	WGCP	Newark, N. J.	220	WFDF	Flint, Mich.	
	250	WLB	St. Paul, Minn.	100	WFKD	Wissinoming, Pa.	
	1, 000	WGMS	St. Paul, Minn.	50	WGAL	Lancaster, Pa.	
	1, 000	WODA	Paterson, N. J.	100	WGH	Newport News, Va.	
	1, 000	WRHM	Fridley, Minn.	100	WHAT	Philadelphia, Pa.	
	1, 000	KFMX	Northfield, Minn.	100	WIBU	Poynette, Wis.	
	1, 000	KFOX	Long Beach, Calif.	100	WJAC	Johnstown, Pa.	
	1, 000	KIDO	Boise, Idaho.	50	WJAK	Marion, Ind.	
	1, 500	WLBW	Oil City, Pa.	100	WKAV	Laconia, N. H.	
	1, 000	WTOC	Savannah, Ga.	100	WKBB	Joliet, Ill.	
1, 260 (238. 1)	500	KOIL	Council Bluffs, Iowa.	100	WKBC	Birmingham, Ala.	
	500	KRGV	Harlingen, Tex.	100	WKBS	Galesburg, Ill.	
	500	KVOA	Tucson, Ariz.	50	WLBC	Muncie, Ind.	
	500	BrownWG	Brownsville, Tex.	100	WMBO	Auburn, N. Y.	
	500	WASH	Grand Rapids, Mich.	100	WNBH	New Bedford, Mass.	
	1, 500	WEAI	Ithaca, N. Y.	50	WNBK	Knoxville, Tenn.	
	1, 000	WFBR	Baltimore, Md.	100	WOBT	Union City, Tenn.	
	250	WJDX	Jackson, Miss.	325	WOL	Washington, D. C.	
	1, 500	WOOD	Furnwood, Mich.	50	WRAW	Reading, Pa.	
	1, 000	KFUM	Colorado Springs, Colo.	20	WRBI	Tifton, Ga.	
1, 270 (236. 2)	50	KGCA	Decorah, Iowa.	100	WRK	Hamilton, Ohio.	
	1, 000	KOL	Seattle, Wash.	100	WSAJ	Grove City, Pa.	
	1, 000	KFW	Do.	100	WSJS	Winston-Salem, N. C.	
	100	KWLC	Decorah, Iowa.	100	KCRJ	Jerome, Ariz.	
	500	WCAM	Camden, N. J.	100	KFBK	Sacramento, Calif.	
	500	WCAP	Asbury Park, N. J.	100	KFGQ	Boone, Iowa.	
	1, 000	WDOD	Brainard, Tenn.	10	KFIU	Juneau, Alaska.	
	2, 500	WOAX	Trenton, N. J.	100	KFJY	Riverdale, Iowa.	
	500	WRR	Dallas, Tex.	100	KFPL	Dublin, Tex.	
	1, 000	KFBB	Great Falls, Mont.	15	KFPM	Greenville, Tex.	
1, 280 (234. 4)	1, 000	WEBC	Superior, Wis.	100	KFUP	Denver, Colo.	
	2, 500	WJAS	North Fayette, Pa.	50	KFXJ	Edgewater, Colo.	
	1, 000	WNBZ	Saranac Lake, N. Y.	100	KFXR	Oklaoma City, Okla.	
	50	KDYL	Salt Lake City, Utah.	100	KGBX	St. Joseph, Mo.	
	1, 000	KFUL	Galveston, Tex.	100	KGCCX	Wolf Point, Mont.	
	50	KLCN	Blytheville, Ark.	100	KGEZ	Kalispell, Mont.	
	1, 000	KTSA	San Antonio, Tex.	100	KGFV	Ravenna, Nebr.	
	2, 000			50	KIT	Yakima, Wash.	
				50	KMED	Medford, Ore.	
				50	KRMD	Shreveport, La.	
			100	KTLC	Houston, Tex.		

See footnotes on p. 183.

BROADCASTING STATIONS, BY FREQUENCIES—Continued

Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	
1,310 (229)	100	KTSL	Shreveport, La.	1,370 (219)	100	KFJZ	Fort Worth, Tex.	
	100	KTSM	El Paso, Tex.		100	KFLX		Galveston, Tex.
	100	KWCR	Cedar Rapids, Iowa.		100 2 250	} KGAR		Tucson, Ariz.
1,320 (227.3)	75	KXRO	Aberdeen, Wash.	100	KGCI			San Antonio, Tex.
	1,000	WADC	Tallmadge, Ohio.	100	KGDA		Mitchell, S. Dak.	
	500	WSMB	New Orleans, La.	100	KGFG		Oklahoma City, Okla.	
	1 250	} KGHF	Pueblo, Colo.	1,370 (219)	50	KGFL		Raton, N. Mex.
	2 500				100	KGKL		San Angelo, Tex.
250	KGIQ	Twin Falls, Idaho.	100	KOH		Reno, Nev.		
1,330 (225.6)	500	KGMB	Honolulu, Hawaii.	100	KONO		San Antonio, Tex.	
	1 250	} KID	Idaho Falls, Idaho.	100	KOOS		Marshfield, Oreg.	
	2 500			100	KRE		Berkeley, Calif.	
	500	WDRC	New Haven, Conn.	100	KVL		Seattle, Wash.	
	500	WSAI	Mason, Ohio.	100	KWKC		Kansas City, Mo.	
1,000	WTAQ	Pau Claire, Wis.	100	KZM		Hayward, Calif.		
1,340 (223.9)	250	KGB	San Diego, Calif.	1,380 (217.4)	1,000	WBKH	LaCrosse, Wis.	
	1,000	} KSCJ	Sioux City, Iowa.	200	WSMK		Dayton, Ohio.	
	2 2,500			500	KQV		Pittsburgh, Pa.	
	1,500	WCOA	Pensacola, Fla.	500	KSO		Clarinda, Iowa.	
	1,500	} WSPD	Toledo, Ohio.	1,300 (215.8)	1,000	WHK		Cleveland, Ohio.
2 1,000	1,000			KLRA		Little Rock, Ark.		
1,350 (222.2)	50	KFPW	Siloam Springs, Ark.	500	KOY		Phoenix, Ariz.	
	1,000	KFPY	Spokane, Wash.	1,000	KUOA		Fayetteville, Ark.	
	250	WBNY	New York, N. Y.	500	WBAA		West Lafayette, Ind.	
	250	WCDA	Cliffside Park, N. J.	500	WBBC		Brooklyn, N. Y.	
	250	WKBQ	New York, N. Y.	500	WCGU		Do.	
1,360 (220.6)	250	WMSG	Do.	500	WCMA		Culver, Ind.	
	1,000	KWK	St. Louis, Mo.	500	WKBF		Clermont, Ind.	
	1,000	WFBL	Syracuse, N. Y.	500	WLTH		Brooklyn, N. Y.	
	1,000	} WGES	Chicago, Ill.	500	WSGH		Do.	
	2 1,000			500	WSDA		Do.	
1,000	WJKS	Gary, Ind.	2 500	} KOCW		Ogden, Utah.		
2 1,250	300	WQBC	1,410 (212.8)		500	WBCM	Chickasha, Okla.	
1,000	KGIR	Butte, Mont.	500	WDAG		Bay City, Mich.		
1,370 (219)	1,000	KPSN	Pasadena, Calif.	250	WHBL		Amarillo, Tex.	
	50	WBGF	Glens Falls, N. Y.	500	WLEX		Sheboygan, Wis.	
	100	WBTM	Danville, Va.	500	WMAF		Lexington, Mass.	
	100	} WCBM	Baltimore, Md.	500	WMAF		South Dartmouth, Mass.	
	2 250			500	WODX		Springfield, Ala.	
100	WELK	Philadelphia, Pa.	250	WRBX		Roanoke, Va.		
100	WFDV	Rome, Ga.	500	WSFA		Montgomery, Ala.		
100	WGL	Fort Wayne, Ind.	500	WSSH		Boston, Mass.		
100	WHBD	Mount Orab, Ohio	500	KFLV		Rockford, Ill.		
100	WHBQ	Memphis, Tenn.	1,000	KGRS		Amarillo, Tex.		
100	} WHDF	Calumet, Mich.	1,420 (211.3)	30	WEDH		Erie, Pa.	
2 250			100	WEHS		Cicero, Ill.		
100	WIBM	Jackson, Mich.	50	WELL		Battle Creek, Mich.		
50	WJBK	Ypsilanti, Mich.	100	WFDW		Talladega, Ala.		
100	} WLEY	Lexington, Mass.	100	10	WHDL		Tupper Lake, N. Y.	
2 250			100	WHFC		Cicero, Ill.		
100	WLVA	Lynchburg, Va.	100	WHIS		Bluefield, W. Va.		
100	WMBR	Tampa, Fla.	100	WIAS		Ottumwa, Iowa.		
100	WPOE	Patchogue, N. Y.	50	WIBR		Steubenville, Ohio.		
5	WQDM	St. Albans, Vt.	100	WILM		Wilmington, Del.		
50	WRAK	Williamsport, Pa.	100	WJBO		New Orleans, La.		
10	WRBJ	Hattiesburg, Miss.	50	WKBI		Chicago, Ill.		
1,380 (217.4)	100	WRBT	Wilmington, N. C.	100	WLBF		Kansas City, Kans.	
	100	WRDO	Augusta, Me.	1 100	} WMBC		Detroit, Mich.	
	100	WRJN	Racine, Wis.	2 250		1 100	} WMBH	Joplin, Mo.
	50	WSVS	Buffalo, N. Y.	2 250	100	WPAD		Paducah, Ky.
	100	} KCRC	Enid, Okla.	1 100	2 250	} WSPA	Spartanburg, S. C.	
2 250	100			WTBO			Cumberland, Md.	
50	KFBL	Everett, Wash.	100	KBPS		Portland, Oreg.		
100	KFJI	Astoria, Oreg.	100	KFIZ		Fond du Lac, Wis.		
100	KFJM	Grand Forks, N. Dak.	100	KFQU		Alma, Calif.		
				100	KFQW		Seattle, Wash.	

See footnotes on p. 183.

BROADCASTING STATIONS, BY FREQUENCIES—Continued

Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Call signal	Location of transmitter
1,370 (219)	50	KFXD	Nampa, Idaho.	1,470 (204.1)	5,000	WLAC	Nashville, Tenn.
	100	KFXV	Flagstaff, Ariz.		5,000	WTNT	Do.
	¹ 100	} KFYO	Abilene, Tex.	1,480 (202.7)	5,000	KGA	Spokane, Wash.
	² 250				5,000	WKBW	Amherst, N. Y.
	100	KGFF	Alva, Okla.	5,000	KFJF	Oklahoma City, Okla.	
	100	KGGC	San Francisco, Calif.	1,490 (201.3)	5,000	WKY	Covington, Ky.
	100	KGIW	Trinidad, Colo.		5,000	WCHI	Deerfield, Ill.
	100	KGIX	Las Vegas, Nev.		5,000	WJAZ	Mt. Prospect, Ill.
	100	KGKX	Sandpoint, Idaho.		5,000	WORD	Batavia, Ill.
	100	KICK	Red Oak, Iowa.	1,500 (200)	⁽¹⁰⁾	KPWF	Westminster, Calif.
	100	KLPM	Minot, N. Dak.		50	WBBS	Boston, Mass.
	100	KORE	Eugene, Oreg.		100	WCLB	Long Beach, N. Y.
	100	KTAP	San Antonio, Tex.		¹ 100	} WKBV	Connersville, Ind.
	100	KTUE	Houston, Tex.		² 150		
100	KXL	Portland, Oreg.	50		WKBZ	Ludington, Mich.	
1,430 (209.8)	¹ 500	} WBAK	Harrisburg, Pa.		100	WLBX	Long Island City, N. Y.
	² 1,000				¹ 100	} WLOE	Chelsea, Mass.
	500	WCAH	Columbus, Ohio.		² 250		
	500	WGBC	Memphis, Tenn.		100	WMBA	Newport, R. I.
	500	WHP	Lemoine, Pa.	100	WMBJ	Wilkinsburg, Pa.	
	500	WNBK	Memphis, Tenn.	100	WMBQ	Brooklyn, N. Y.	
	1,000	KECA	Los Angeles, Calif.	100	WMPC	Lapeer, Mich.	
500	KGNF	North Platte, Nebr.	100	WNBF	Binghamton, N. Y.		
1,440 (208.3)	250	WCBA	Allentown, Pa.	100	WOPI	Bristol, Tenn.	
	500	WHEC	Rochester, N. Y.	¹ 100	} WPEN	Philadelphia, Pa.	
	500	WABO					
	¹ 500	} WMBD	Peoria Heights, Ill.	² 250	WQDV	Tupelo, Miss.	
	² 1,000			100	WRDW	Augusta, Ga.	
	500	WNRC	Greensboro, N. C.	100	WVRL	Woodside, N. Y.	
	500	WOKO	Mt. Beacon, N. Y.	100	KDB	Santa Barbara, Calif.	
	250	WSAN	Allentown, Pa.	100	KGKB	Brownwood, Tex.	
	500	WTAD	Quincy, Ill.	100	KGFI	Corpus Christi, Tex.	
	250	KLS	Oakland, Calif.	50	KGFK	Moorhead, Minn.	
1,450 (206.9)	250	WBMS	Hackensack, N. J.	50	KGIZ	Grant City, Mo.	
	500	WCSS	Springfield, Ohio.	100	KGKY	Scottsbluff, Nebr.	
	500	WFJC	Akron, Ohio.	100	KPJM	Prescott, Ariz.	
	250	WHOM	Jersey City, N. J.	50	KPPQ	Wenatchee, Wash.	
	250	WKBO	Do.	100	KREG	Santa Ana, Calif.	
	250	WNJ	Newark, N. J.	100	KUJ	Longview, Wash.	
	250	WSAR	Fall River, Mass.	100	KUT	Austin, Tex.	
500	WTFI	Toccoa, Ga.					
1,460 (205.5)	1,000	KTBS	Shreveport, La.				
	10,000	WJSV	Mt. Vernon Hills, Va.				
	10,000	KSTP	Westcott, Minn.				

¹ Night.

² Day.

³ Day experimentally.

⁴ Normally.

⁵ Experimentally.

⁶ Night experimentally.

⁷ When WCAU is operating.

⁸ When using WREN transmitter.

⁹ Power, 36/5 meter amperes.

¹⁰ Only construction permit issued.

EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Location of transmitter	Call Signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Licensee and address
Alaska: Libbyville.....	K7XD	1,540 (194.8), 3,184 (94.22).....	50	Libby, McNeill & Libby.
California: Alameda.....	W6XL	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 (17.34). Variable to 150 (2,000).....	5,000	Federal Telegraph Co., Federal Highway 101, Palo Alto, Calif.
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). Variable to 150 (2,000).....	1,000	University of California.
Beverly Hills..	W6XAH	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). Variable to 150 (2,000).....	1,000	Fox Film Corp.
Bolinas.....	W6XI	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). Variable to 150 (2,000).....	10,000	R. C. A. Communications (Inc.).
Galt.....	W6XBX	1,608 (186.57), 2,392 (130.32), 3,078 (97.53), 4,108 (73.02), 5,510 (54.44), 6,155 (48.74). Variable to 150 (2,000).....	75	Galt Technical Junior College for Aeronautics.
Los Angeles....	W6XAN	23,100 (12.987), 24,100 (12.448), 26,100 (11.494), 31,000 (9.68), 37,000 (8.11), 45,000 (6.667), 55,000 (5.456), 65,000 (4.615). Variable to 200 (1,500).....	1,000	Press Wireless (Inc.), 666 Lake Shore Drive, Chicago Ill.
Do.....	W6XBO	1,200 (250) to 75,000 (4).....	(2)	Los Angeles County Forestry Department.
Oakland.....	W6XN	6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341), 25,650 (11.682), 27,325 (10.979), 34,240 (8.76), 36,585 (8.68). Variable to 200 (1,500).....	10,000	General Electric Co., 5441 East Fourteenth St.
Do.....	W6XW	Variable to 200 (1,500).....	(2)	H. O. de la Montanya, 2830 Eleventh Ave.
Palo Alto.....	W6XAY	1,604 (187.03), 2,398 (125.10), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7). Variable to 150 (2,000).....	250	Corwin C. Chapman, 1111 Fulton St.
Do.....	W6XV	99 (3,030), 150 (2,000), 375 (800), 500 (600), 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), 24,100 (12.448), 25,100 (11.952), 27,100 (11.070), 30,100 (9.97), 75,100 (3.99). Variable to 150 (2,000).....	10,000	Federal Telegraph Co.
San Francisco..	W6XAD	2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 8,650 (34.68). Variable to 150 (2,000).....	1,000	Whiteford & Ausman, 1330 Sacramento St.
Do.....	W6XZ	23,000 (13.043) to 28,000 (10.714). Variable to 150 (2,000).....	50,000	Universal Wireless Communication Co.
San Mateo County	W6XAQ	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), 24,000 (12.50), 26,800 (11.194), 28,300 (10.601), 36,000 (8.33), 40,000 (7.50), 50,000 (6), 75,000 (4). Variable to 150 (2,000).....	10,000	Federal Telegraph Co.
Colorado: Gunnison.	W0XD	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). Variable to 150 (2,000).....	100	Western State College of Colorado.
Connecticut: Hartford.....	W1XF	321 (935).....	200	Colonial Air Transport, 270 Madison Ave., New York, N. Y.
Do.....	W1XL	6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341). Variable to 150 (2,000).....	500	Francis E. Handy, 15 Beacon 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)	Licensee and address
Connecticut—Con. Middletown	W1XN	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)	500	Wesleyan University.
South Manchester	W1XAM	do	1,000	John L. Reinartz, 176 Wadsworth St.
District of Columbia: Washington	W3XZ	4,795 (62.56)	250	C. Francis Jenkins, 1519 Connecticut Ave.
Florida: Hialeah	W4XG	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	Tropical Radio Telegraph Co.
Miami	W4XA	30,100 (9.97), 40,100 (7.481), 50,100 (5.988)	100	Pan American Airways (Inc.), 122 East Forty-second St., New York, N. Y.
Miami (West Thirty-sixth St. airport)	W4XB	6,425 (46.695), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341), 23,100 (12.987), 23,500 (12.760)	200	Do.
Miami Beach	W4XQ	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	Laurence E. Dutton, 1550 Drexel Ave.
Hawaii: Honolulu	K6XP	1,604 (187.03), 2,398 (125.1), 3,205 (93.5), 4,795 (62.50)	1,000	Mutual Telephone Co.
Do	K6XS	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), 30,000 (10) to 300,000 (1)	1,000	R. C. A. Communications (Inc.).
Kahuku	K6XO	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	10,000	Do.
Lahaina	K6XX	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), 30,000 (10) to 300,000 (1)	500	Do.
Illinois: Addison	W9XAL	1,608 (186.57), 3,076 (97.53), 6,155 (48.74)	500	Chicago Daily News.
Chicago	W9XC	2,140 (140.2), 4,280 (70.09), 8,560 (34.68)	10,000	Universal Wireless Communication Co.
Do	W9XM	23,000 (13.043) to 23,000 (10.714)	5,000	Do.
Do	W9XO	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68)	750	Morkrum-Kleinschmidt Corp., 1410 Wrightwood Ave.
Do	W9XP	23,100 (12.987), 24,100 (12.448), 26,100 (11.494), 31,000 (9.68), 37,000 (8.11), 45,000 (6.667), 55,000 (5.455), 65,000 (4.615)	1,000	Press Wireless (Inc.), 666 Lake Shore Drive, Chicago, Ill.
Do	W9XY	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)	25,000	Westinghouse Electric & Mfg. Co.
Elgin	W9XAM	4,795 (62.56)	500	Elgin National Watch 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 (125.1), 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	Culver Military Academy.
Louisiana: New Orleans	W5XH	do	1,000	Tropical Radio Telegraph Co.
Maine: Bradley	W1XQ	50 (6,000) to 75 (4,000)	25,000	American Telephone & Telegraph Co.
Maryland: Baltimore	W3XE	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	Baltimore Radio Show.
Do	W3XI	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57)	200	George E. Sterling, 4613 Elsrode Ave.

EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Location of transmitter	Call Signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Licensee and address
Massachusetts: Boston.....	W1XE	321 (935).....	200	Colonial Air Transport, 270 Madison Ave., New York, N. Y.
Do.....	W1XT	1,604 (187.03), 2,398 (125.1), 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	Tropical Radio Telegraph Co.
Cambridge.....	W1XJ	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).	500	Harvard University.
Do.....	W1XM	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), 24,100 (12.448), 26,100 (11.494).	500	Massachusetts Institute of Technology, Communication Division.
Do.....	W1XO	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	General Radio Co., 30 State St.
Chesnut Hill..	W1XS	12,850 (23.35), 17,300 (17.341).....	500	Reginald A. Fessenden, 45 Waban Hill Road.
Dartmouth.....	W1XV	1,604 (187.03), 2,398 (125.10), 3,256 (92.5), 4,795 (62.57), 23,060 (13.01) and above.	500	Round Hills Radio Corp.
Gloucester.....	W1XI	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).	500	John Hays Hammond, jr.
Marion.....	W1XC	do.....	10,000	R. C. A. Communications (Inc.).
Medford.....	W1XAW	do.....	500	Trustees of Tufts College.
Somerville.....	W1XB	1,604 (187.03), 2,100 (142.9), to 2,200 (136.4), 2,398 (125.1), 2,750 (109.1), to 2,850 (105.3), 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	General Industries Co., 63 Gorham St.
South Dartmouth.	W1XP	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7).	1,000	Massachusetts Institute of Technology, Cambridge, Mass.
Wianno.....	W1XA	8,650 (34.68), 12,850 (23.35), 28,200 (10.638).	500	Edward C. Cressett.
Worcester.....	W1XZ	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57).	1,000	Clark University,
Michigan: Detroit.....	W8XZ	Variable.....		Department of Commerce, radio division, supervisor of radio, eighth district.
Houghton.....	W9XAW	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	Michigan College of Mining and Technology.
Utica.....	W8XB	1,608 (186.57), 2,302 (130.32), 3,076 (97.5), 4,108 (73.028), 5,510 (54.44).	500	Charles H. Vincent.
Minnesota: Anoka.....	W9XL	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	Washburn-Crosby Co., R. F. D. 3,
Minneapolis..	W9XI	do.....	500	University of Minnesota, department of electrical engineering.
Missouri: Carterville.	W0XV	do.....	100	Rev. Lannie W. Stewart, 233 North 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	3,256 (92.13), 6,425 (46.69).....	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.).
Camden.....	W3XAB	do.....	250	R. C. A. Victor Co. (Inc.).
Do.....	W3XAJ	do.....	250	Do.

EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Location of transmitter	Call Signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Licensee and address
New Jersey—Con. Deal.....	W2XJ	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,116 (72.89), 4,795 (62.57), 6,425 (46.7), 6,755 (44.41), 8,630 (34.76), 8,650 (34.68), 9,170 (32.72), 9,750 (30.77), 9,870 (30.4), 10,550 (28.44), 12,850 (23.35), 13,390 (22.4), 14,470 (20.73), 14,550 (20.56), 16,270 (18.439), 17,300 (17.341), 18,340 (16.358), 19,220 (15.609), 19,820 (15.136), 21,060 (14.245), 21,420 (14.006)	15,000	Bell Telephone Laboratories, 463 West St., New York, N. Y.
Holmdel.....	W2XM	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), 1,604 (187.03), 2,398 (125.1)	1,000	Do.
Jersey City....	W2XBY	3,256 (92.5), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341), 1,604 (187.03), 2,398 (125.1)	450	Walter Charles Von Brandt.
Linden.....	W2XCY	23,100 (12.987), 25,100 (11.95), 27,100 (11.07), 30,100 (9.97), 40,100 (7.48), 50,100 (5.98), 70,100 (4.28), 100,100 (3)	1,000	Southern Radio Corp., 26 Broadway, New York, N. Y.
Mendham.....	W3XR	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68)	500	Bell Telephone Laboratories, 463 West St., New York, N. Y.
Mountain Lakes.	W3XQ	1,975 (151.8), 3,950 (75.9), 7,900 (39.5)	250	Stuart Ballantine, 267 Boule- vard West.
Newark.....	W2XAI	6,425 (46.7)-----	50,000	Westinghouse Electric & Mfg. Co.
Do.....	W2XL	7,130 (42.8), 8,586 (34.94)-----	250	Public Service Electric & Gas Co., 80 Park Place.
Newark (air- port).	W2XY	1,608 (186.57), 2,326 (128.97), 3,484 (86.10), 5,600 (53.57), 6,335 (47.35)	400	Colonial Air Transport (Inc.), 270 Madison Ave., New York, N. Y.
New Brunsw- wick.	W2XAM	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341), 6,950 (43.17), 8,965 (43.07), 7,415 (40.46), 8,930 (33.59), 9,450 (31.75), 9,470 (31.68), 9,490 (31.61), 13,480 (22.26), 13,870 (21.63), 13,900 (21.58), 14,800 (20.27), 14,920 (20.11), 16,030 (18.715), 17,860 (16.797)	10,000	R. C. A. Communications (Inc.).
Do.....	W2XAO	4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341), 25,700 (11.673), 34,600 (8.67), 51,400 (5.83), 60,000 (5) to 400,000 (75)	80,000	Do.
Do.....	W2XBZ	4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341), 25,700 (11.673), 34,600 (8.67), 51,400 (5.83), 60,000 (5) to 400,000 (75)	80,000	Do.
Ocean.....	W2XG	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,116 (72.89), 4,795 (62.57), 6,425 (46.7), 6,755 (44.41), 8,630 (34.76), 8,650 (34.68), 9,170 (32.72), 9,750 (30.77), 9,870 (30.40), 10,550 (28.44), 12,850 (23.35), 13,390 (22.4), 14,470 (20.73), 14,590 (20.56), 16,270 (18.439), 17,300 (17.341), 18,340 (16.358), 19,220 (15.609), 19,820 (15.136), 21,060 (14.245), 21,420 (14.006), 27,510 (10.905), 31,650 (9.48), 36,600 (8.20)	5,000	Bell Telephone Laboratories, 463 West St., New York, N. Y.
Passaic.....	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)	5,000	De Forest Radio Co., 139 Franklin St.
Tuckerton.....	W2XD	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341)	10,000	R. C. A. Communications (Inc.).
Weehawken....	W2XBK	25,700 (11.673), 34,600 (8.67), 51,400 (5.83), 60,000 (5) to 400,000 (.75) and above 401,000 (.74)	10	Do.
Whippany.....	W3XN	194 (1,645) to 6,000 (50), 327 (9,170).	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)	Licensee 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) to 9,060 (33.1), 10,000 (30) to 10,989 (27.3), 16,043 (18.7) to 13,072 (16.6).	500	Radiomarine Corporation of America.
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	R. C. A.
Do.....	W2XCE	do.....	20,000	Allan D. Cardwell Mfg. Corp., 81 Prospect St.
Buffalo.....	W8XH	23,060 (13.01) to 23,000 (10.714).	5,000	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.
Do.....	W2XBG	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68).	200	Radiomarine Corporation of America.
Do.....	W2XBW	1,604 (187.03), 3,256 (92.5), 6,425 (46.7), 7,430 (40.38), 7,437.5 (40.34), 7,445 (40.29), 8,650 (34.68), 9,410 (31.88), 10,930 (27.45), 12,850 (23.35), 14,860 (20.19), 14,875 (20.17), 14,890 (20.15), 18,820 (15.94), 22,660 (13.239).	500	Globe Wireless (Ltd.).
Grasmere.....	W2XCB	4,795 (62.56), 6,425 (46.69).....	50	David Grimes, 649 Richmond Road.
Little Neck....	W2XCK	23,100 (12.987), 24,100 (12.448), 26,100 (11.494), 31,000 (9.68), 37,000 (8.11), 45,000 (6.667), 55,000 (5.455), 65,000 (4.615).	1,000	Press Wireless (Inc.), 666 Lake Shore Drive, Chicago Ill.
Long Island City.....	W2XAR	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	Radio Pictures (Inc.).
Do.....	W2XV	4,795 (62.57), 8,650 (34.68), 17,300 (17.341).	500	Radio Engineering Laboratories, 100 Wilbur Ave.
Mount Vernon..	W2XBF	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57).	250	Ward Leonard Electric Co., 31 South St.
New Dorp.....	W2XCC	4,795 (62.56), 6,425 (46.69).....	50	David Grimes, 649 Richmond Road, Stapleton, N. Y.
New York.....	W2XB	560 (536), 710 (423), 860 (349), 1,000 (300), 1,220 (245), 1,490 (200).	5,000	Bell Telephone Laboratories, 463 West St.
Do.....	W2XCT	23,000 (13.043) to 23,000 (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. Victor Co. (Inc.).
Do.....	W2XQ	5,885 (50.98).....	10-50	Universal Wireless Communication Co.
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. Victor Co. (Inc).
Port Washing- ton.....	W2XCS	1,608 (186.57), 5,510 (54.45), 2,302 (130.32), 3,076 (97.5), 4,108 (73.028), 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... Do.....	W2XA	45 (7,000) to 75 (4,000).....	190,000	American Telephone & Telegraph Co.
Do.....	W2XAS	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).	80,000	R. C. A. Communications (Inc.).
Do.....	W2XBC	17,300 (17.341), 25,700 (11.673), 34,600 (8.67), 51,400 (5.83).	10,000	Do.
Do.....	W2XBI	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	10,000	Do.

EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Location of transmitter	Call Signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Licensee and address
New York—Con. Rocky Point...	W2XBJ	6,740 (44.51), 8,950 (33.52), 15,040 (19.947), 16,000 (18.75), 16,030 (18.715), 17,900 (16.760), 20,100 (14.925), 21,300 (14.085).	80,000	R. C. A. Communications (Inc.).
Do.....	W2XBL	60,000 (5) to 400,000 (.75) and above 401,000 (.74).	1	Do.
Do.....	W2XBM	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).	200	Do.
Do.....	W2XBP	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), 25,700 (11.673).	10	Do.
Do.....	W2XF	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	10	Do.
Do.....	W2XT	do	80,000	Do.
Roosevelt Field.	W2XCV	2,326 (128.97)	100	Roosevelt Field, Mineola, N. Y.
Sayville.....	W2XCM	1,604 (187.03), 2,398 (125.1), 3,058 (97.2), 4,795 (62.57), 6,815 (44.02), 6,875 (44.28), 7,655 (39.19), 7,670 (39.11), 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), 10,430 (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 (15.198), 20,300 (14.778), 20,980 (14.299), 21,380 (14.032).	5,000	General Electric Co.
Schenectady...	W2XAE	240 (1,250)	500	Union College Radio Club.
Do.....	W2XBN	Variable over 3,000 (100)	300	General Electric Co.
Schenectady (airport)	W2XCH	2,302 (130.32), 3,076 (97.5)	300	General Electric Co.
Schenectady.....	W2XI	790 (379.5)	15,000	Do.
South Schenectady.	W2XAK	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	Do.
Do.....	W2XAW	Variable from and above 23,000 (13.043).	25,000	Do.
Do.....	W2XCN	240 (1,250)	5,000	Do.
Do.....	W2XK	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).	25,000	Do.
Do.....	W2XO	do	25,000	Do.
Winfield.....	W2XP	do	1,000	Louis Gerard Pacent, 43-21 Sixty-eight St.
North Dakota: Grand Forks.	W0XJ	do	500	University of North Dakota, Department of electrical engineering.
Ohio: Cleveland.....	W8XD	do	500	R. C. A. Radiotron Co. (Inc.) Nela Park.
Do.....	W8XF	1,712 (175.23)	100	Radio Air Service Corp.
Do.....	W8XO	Variable	500	Westinghouse Electric & Mfg. Co.
Dayton.....	W8XAG	8,650 (34.68)	50	Edmund T. Flewelling, R. F. D. 11 Springboro Road.
Do.....	W8XL	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	General Motors Radio Corp. 1320 Wisconsin Boulevard.
West Dover.....	W8XJ	1,608 (186.57), 2,734 (109.73), 3,088 (97.15), 4,108 (73.02), 5,570 (53.86), 6,335 (47.35).	200	R. C. A.—Ohio Co.

EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Location of transmitter	Call Signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Licensee and address
Pennsylvania: East Pittsburgh	W8XI	31,000 (9.68), 41,000 (7.317), 51,000 (5.882), 59,000 (5.035), 60,000 (5) to 300,000 (1).	20,000	Westinghouse Electric & Mfg. Co.
Do.....	W8XS	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).	2,000	Do.
Philadelphia.....	W3XC	.....do.....	20	Frank B. Chambers, 6100 Market St.
Do.....	W3XM	6,425 (46.69), 8,650 (34.68).....	500	Durham & Co. (Inc.), 2606 Chestnut St.
Do.....	W3XS	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).	50	Gleason W. Kenrick, Thirty-third & Walnut Sts.
State College.....	W8XE	.....do.....	500	Pennsylvania State College.
Swarthmore.....	W3YJ	Variable over 1,500 (200).....	100	Swarthmore College.
Porto Rico: San Juan (P. A. A. Airport)	K4XC	6,425 (46.695), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341), 23,100 (12.987), 23,500 (12.766).	200	Pan American Airways (Inc.), 122 East Forty second St., New York, N. Y.
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).	(1)	Ceco Manufacturing Co. (Inc.).
Texas: Brownsville (municipal airport).	W5XC	6,425 (46.695), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341), 23,100 (12.987), 23,500 (12.766)	200	Pan American Airways (Inc.), 122 East Forty-second St., New York N. Y.
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: East Wenatchee.	W7XAT	101 (2,970).....	10,000	Electro-Spray Corp.
Seattle.....	W7XE	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).	2,000	Radiomarine Corporation of America.
Do.....	W7XP	1,596 (188), 2,416 (124.17).....	500	Seattle Fire & Police Department.
Wenatchee.....	W7XAS	101 (2,970).....	7,000	Electro-Spray Corp.
Wisconsin: Lake	W9XAS	278 (1,080)	7.5	Weeks Aircraft Corp.
Madison.....	W9XH	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	C. F. Burgess Laboratories, 1011 East Washington Ave.
PORTABLE Alaska: Boca de Quadra (also vessel Kiska).	K7XF	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).	50	A. A. McCue, 600 Marion Bldg., Seattle, Wash.
California No. 1.....	W6XF	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 (17.34), 30,100 (9.97), 35,100 (8.55), 40,100 (7.48), 50,100 (5.98).	500	Heintz & Kaufman (Inc.), 311 California St., San Francisco, Calif.
California No. 2.....	W6XJ	.....do.....	500	Do.
California: Los Angeles.....	W6XAJ	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	Globe Wireless (Ltd.).
Do.....	W6XAP	1,604 (187.03), 2,398 (125.1), 3,256 (92.50), 4,795 (62.57).	500	Dean Farran, 1250 Fifth Ave.
Do.....	W6XBR	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7).	100	Warner Bros. Pictures (Inc.)

¹ 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)	Licensee and address
California—Contd. Oakland.....	W6XAX	2,727 (110) to 12,000 (25)-----	50	General Electric Co., 5555 East Fourteenth St.
Do.....	W6XG	790 (350)-----	10,000	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), 19,850 (15.09)	500	John E. Waters, R. R. 2 Box-C.
San Francisco.....	W6XBB	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)	500	Ralph M. Heintz, 119 Twenty-sixth Ave.
Do.....	W6XBK	300 (1,000)-----	500	M. R. T. Co.
Stanford University.	W6XH	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	Herbert Hoover, jr.
Colorado: Golden.....	W9XE	1,604 (187.03), 2,398 (125.1)-----	5	Colorado School of Mines.
District of Columbia: Washington.	W3XU	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)	50,000	Universal Wireless Communications Co.
Hawaii: Honolulu.....	K6XAK	do	100	Globe Wireless (Ltd.).
Do.....	K6XBZ			Mutual Telephone Co.
Kawaihae.....	K6XB	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), 30,100 (9.97), 35,100 (8.55), 40,100 (7.48), 45,100 (6.65), 50,100 (5.98), 60,100 (4.99), 100,100 (3), 200,100 (1.5), 300,100 (.97)	500	R. C. A. Communications (Inc.).
Illinois: Chicago.....	W9XAH	1,490 (201.3)-----	500	Peoples Pulpit Association, 111 E. Pearson St., Chicago, Ill.
Do.....	W9XAK	1,712 (175.23), 2,416 (124.17), 2,452 (122.35)	500	R. C. A. Communications (Inc.).
Maine: Houlton.....	W1XR	50 (6,000) to 70 (4,286)-----	1,000	American Telephone & Telegraph Co., 195 Broadway, New York, N. Y.
Massachusetts: Boston.....	W1XAF	Variable-----	Variable	Edison Electric Illuminating Co. of Boston, 39 Boylston St.
Dartmouth.....	W1XAN	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	Round Hill Radio Corp.
Medford.....	W1XAI	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	Tufts College (trustees).
Millis.....	W1XK	900 (303)-----	1,000	Westinghouse Electric & Mfg. Co.
New Jersey: Ocean.....	W2XAV	1,556 (192.8), to 1,652 (181.6), 2,398 (125.10), 3,256 (92.50), 4,116 (72.89), 4,795 (62.57), 6,425 (46.7), 6,755 (44.41), 8,630 (34.76), 8,650 (34.68), 9,170 (32.72), 9,750 (30.77), 9,870 (30.40), 10,550 (28.44), 12,850 (23.35), 13,390 (22.40), 14,470 (20.73), 14,590 (20.56), 16,270 (18.439), 17,300 (17.341), 18,340 (16.358), 19,220 (15.609), 19,820 (15.136), 21,060 (14.245), 21,420 (14.006)	1,000	Bell Telephone Laboratories (Inc.), 463 West St., New York, N. Y.
Throughout State.	W3XO	6,640 (45.18) to 7,330 (40.93), 8,570 (35.01) to 10,400 (28.85), 11,550 (24.97) to 12,890 (23.27), 13,720 (21.87) to 15,250 (19.672), 17,280 (17.361) to 19,530 (15.361), 20,000 (15) to 22,070 (13.593)	10	American Telephone & Telegraph Co., 195 Broadway, New York, N. Y.
New York: Nassau County	W2XAN	860 (350)-----	500	Atlantic Broadcasting Corp., 485 Madison Ave., 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)	Licensee and address
New York—Con. New York.....	W2XAA	1,604 (187.03), 2,398 (125.10), 3,256 (92.50), 4,116 (72.89), 4,795 (62.57), 6,425 (46.70), 6,755 (44.41), 8,630 (34.76), 8,650 (34.68), 9,170 (32.72), 9,750 (30.77), 9,870 (30.40), 10,550 (28.44), 12,850 (23.35), 13,390 (22.40), 14,470 (20.73), 14,590 (20.56), 16,270 (18.439), 17,300 (17.341), 18,340 (16.358), 19,220 (15.609), 19,820 (15.136), 21,060 (14.245), 21,420 (14.003).	1,000	Bell Telephone Laboratories (Inc.), 463 West St.
Do.....	W2XAX	2,500 (120) to 2,752 (109)	20	Frances P. Houdina, 1476 Broadway.
Do.....	W2XBE	Variable.....	50-1,000	American Telephone & Telegraph Co., 195 Broadway.
Do.....	W2XCI	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7), 8,650 (34.68), 12,850 (23.35), 17,300 (17.341).	250	RCA Victor Co. (Inc.).
Rocky Point...	W2XCQ	do.....	100	R. C. A. Communications (Inc.).
Ohio: Throughout State.	W8XG	do.....	200	Ohio State University, Department of Electrical Engineering, Columbus, Ohio.
Oregon: Portland..	W7XA	do.....	1,000	Globe Wireless (Ltd.), 311 California St., San Francisco, Calif.
Pennsylvania: East Pittsburgh.	W8XP	do.....	500	Westinghouse Electric & Mfg. Co.
Utah: Salt Lake City.	W6XR	233 (1,060), 360 (833)	500	Nightingale Radios (Inc.), 150 Motor Ave., Salt Lake City, Utah.
Seventh Radio District.	W7XAP	2,000 (150) to 4,000 (75)	10-50	Department of Agriculture, Forest Service.
Do.....	W7XAQ	do.....	10-50	Do.
Sixth radio district.	W6XQ	278 (1,080), 457 (655), 3,070 (97.71), 3,088 (97.15), 3,460 (86.70), 5,510 (54.44), 6,350 (47.24), 8,015 (37.43), 12,180 (24.63).	2,000	Herbert Hoover, jr., 117 W. Ninth St., Los Angeles, Calif.
Truck No. 1.....	W10XM	3,142 (95.45), 5,660 (53), 8,650 (34.68), 12,850 (23.35), 23,120 (12.97).	50	Boeing Air Transport (Inc.), 200 West Michigan St., Seattle, Wash.
Truck No. 2.....	W10XX	do.....	50	Do.
Truck No. 3.....	W10XY	do.....	50	Do.
United States (throughout).	W10XA	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).	100	Universal Wireless Communications Co.
Do.....	W10XB	do.....	100	Do.
Do.....	W10XC	do.....	100	Do.
Do.....	W10XD	do.....	100	Do.
Do.....	W10XE	do.....	100	Do.
Washington: Seattle.	W7XC	do.....	1,000	Globe Wireless, (Ltd.), 311 California St., San Francisco, Calif.
West Virginia: Morgantown.	W8XA W	do.....	200	West Virginia University, physics department.
AIRCRAFT				
Aircraft (any of N. A. T. Inc.).	W10X W	1,608 (186.57), 1,688 (177.73), 2,302 (130.32), 2,734 (109.73), 3,076 (97.53), 3,452 (86.90), 3,402 (85.91), 4,108 (73.02), 4,180 (71.77), 4,765 (62.95), 4,785 (62.69), 5,510 (54.44), 5,540 (54.15), 5,570 (53.86), 5,630 (53.28).	100	National Air Transport (Inc.) (station operated by Radio Marine Corporation of America).
C-2614.....	W10XO	3,076 (97.53), 5,510 (54.44), 6,155 (48.74).	50	Radio Engineering Laboratories.
C-3002.....	W10XP	do.....	50	Do.
NC-179N.....	W10XAG	33 (900), 600 (500) to 1,000 (300), 3,250 (92.5), 8,650 (34.08), 17,300 (17.341).	30-50	De Forest Radio Co., Passaic, N. J.
NC-417H.....	W10XAA	1,608 (186.57), 2,302 (130.32), 4,108 (73.02), 5,510 (54.44), 6,155 (48.74), 3,076 (97.53), 3,106 (96.58).	500	Bell Telephone Laboratories.

EXPERIMENTAL STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—Continued

Location of transmitter	Call Signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Licensee and address
AIRCRAFT—contd.				
NC-1592	W10XN	5,510 (54.45), 6,155 (48.74)	100	R. N. Cheminant, 2500 Marvin Ave., Los Angeles, Calif.
NC-4616	W2XBX	1,608 (186.57), 2,302 (130.32), 3,076 (97.5), 4,108 (73.028), 5,510 (54.45), 6,155 (48.74).	500	Bell Telephone Laboratories.
NC-8013	W10XV	4,785 (62.69)	50	Roosevelt Field (Inc.), Mineola, N. Y.
NC-9675	W10XAE	1,604 (187.03), 2,398 (125.1), 3,256 (92.5), 4,795 (62.57), 6,425 (46.7).	100	Colonial Air Transport (Inc.) 270 Madison Avenue, New York, N. Y.
NC-9681	W10XAD	do.	100	Do.
NC-9745	W10XQ	1,608 (186.57), 2,326 (128.97), 3,088 (97.15), 4,785 (62.69), 6,350 (47.24).	100	Do.
NC-9746	W10XI	3,076 (97.5), 6,155 (48.74)	20	Aircraft Radio Corp., Boonton, N. J.
NC-9677	W10XS	1,608 (186.57), 2,326 (128.97), 3,088 (97.15), 4,785 (62.69), 6,350 (47.24).	100	Colonial Air Transport (Inc.).
NC-9779	W10XL	1,608 (186.5), 2,326 (128.97), 3,088 (97.15), 4,785 (62.69), 6,335 (47.35).	300	R. M. C. A., 66 Broad Street, New York, N. Y.
No. 8419	W8XA	2,398 (125.10), 4,795 (62.56)	100	Ford Motor Co.
NR-487H	W2XBQ	1,608 (186.57), 2,302 (130.32), 3,076 (97.53), 4,108 (73.02), 5,510 (54.44), 6,155 (48.74).	250	Pilot Electric Mfg. Co. (M. B. Sleeper), 323 Berry St., Brooklyn, N. Y.
NX-7918	W10XH	4,108 (73.03)	10	Daniel Guggenheim Fund (Inc.), 598 Madison Ave., New York, N. Y.
Parachute	W10XT	2,368 (126.68)	1	Roosevelt Field (Inc.), Mineola, N. Y.
767	W2XCA	2,302 (130.32), 4,108 (73.02), 5,510 (54.44), 6,155 (48.74).	200	Morton B. Kahn, 617 W. One hundred and forty-first St., New York, N. Y.
Unnamed	W10XR	6,350 (47.24)	75	William D. Van Dyke, Dallas Heights, Chattanooga, Tenn.
Do	W10XZ	1,608 (186.57), 2,325 (129.03), 3,088 (97.15), 4,785 (62.69), 6,335 (47.35).	6	C. Francis Jenkins, 1519 Connecticut Ave., Washington, D. C.
X118E	W2XAQ	2,506 (119.7)	50	Sky Lines, (Inc.).
X7654	W8XC	1,608 (186.57), 2,302 (130.32), 3,076 (97.5), 4,108 (73.028), 6,155 (48.74).	75	Packard Motor Car Co.
X855E	W10XF	400 (750), 1,608 (186.57), 6,335 (47.35).	200	Chicago Daily News.
Vessels:				
Casco	W10XAB	2,398 (125.1), 4,795 (62.57), 6,425 (46.7), 8,650 (34.08).	50	R. W. Seabury, Boonton, N. J.
Metha Nelson	W6XBA	3,256 (92.5)	100	Fox Film Corp., 1401 North Western Ave., Hollywood, Calif.
Portable (operates on board vessels).	W10XK	6,635 (45.21), 8,200 (36.59), 8,900 (33.71), 11,230 (26.71).	500	Bell Telephone Laboratories (Inc.) 463 West St., New York, N. Y.
Utica	W2XAT	50,000 (6), 60,000 (5), 80,000 (3.75), 100,000 (3), 300,000 (1).	10	R. C. A. Communications (Inc.).
Railroad Train: Unnamed.	W10XAF	2,398 (125.1)	5	Larry L. Smith, Monticello, Ky.

RELAY BROADCASTING STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Licensee and address
California: Sacramento.....	W6XAF	2,938 (112.1), 5,870 (51.11).....	500	State Department of Agriculture (Calif.).
Westminster (near).....	W6XAL	6,080 (49.34), 15,250 (19.672), 21,500 (13.953).	15,000	Pacific-Western Broadcasting Federation.
Colorado: Denver.....	W9XA	830 (361).....	12,500	General Electric Co.
Illinois: Addison.....	W9XAQ	6,040 (49.67).....	1,000	Chicago Daily News.
Chicago.....	W9XAA	6,080 (49.34), 11,840 (25.34), 17,780 (16.873).	500	Chicago Federation of Labor.
Downers Grove.....	W9XF	6,020 (49.83), 11,800 (25.42), 21,500 (13.953).	5,000	Great Lakes Radio Broadcasting Co., 72 W. Adams St., Chicago, Ill.
Iowa: Council Bluffs.....	W9XU	6,000 (49.5).....	500	Monn Motor Oil Co.
Massachusetts: East Springfield.....	W1XAZ	9,570 (31.35), 2,398 (125.1).....	10,000	Westinghouse Electric & Mfg. Co.
New Jersey: Amper.....	W2XCU	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), 35,000 (8.57).	20,000	Wired Radio (Inc.), 60 Broadway, New York, N. Y.
Bound Brook.....	W3XAL	6,100 (49.18).....	20,000	R. C. A. Communications (Inc.).
Coytesville.....	W2XAL	6,040 (49.67), 11,800 (25.42), 15,250 (19.672), 21,460 (13.979).	15,000	Aviation Radio Station.
Kearny.....	W2XCX	6,080 (49.34).....	500	L. Bamberger & Co.
New York: Bellmore.....	W2XZ	610 (491.5).....	50,000	National Broadcasting Co.
Cross Hassock Bay.....	W2XE	11,840 (25.34), 15,280 (19.634).....	20,000	Atlantic Broadcasting Corp.
New York (portable). South Schenectady.....	W2XBR	6,020 (49.83).....	1,000	Baruchrome Corp.
Do.....	W2XAF	9,530 (31.48).....	40,000	Do.
Do.....	W2XAG	550 (545), 650 (455), 790 (380), 1,150 (260.9), 1,500 (200).	200,000	Do.
Ohio: Mason.....	W8XAL	6,060 (49.5).....	250	Crosley Radio Corp., 1325 Arlington St., 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).	40,000	Westinghouse Electric & Mfg. Co.
Philadelphia (Byberry).....	W3XAU	6,060 (49.5), 9,590 (31.28).....	500	Universal Broadcasting Co., 1940 Market St.

VISUAL BROADCASTING STATIONS, ALPHABETICALLY BY NAMES OF STATIONS

Location of transmitter	Call signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Licensee and address
Illinois:				
Chicago.....	W9XAA	2,000 (150) to 2,100 (142.9).....	1,000	Chicago Federation of Labor. Aero Products (Inc.). Western Television Corp., 6312 Broadway, Chicago Daily News.
Do.....	W9XAG	do.....	1,000	
Do.....	W9XAO	do.....	500	
Do.....	W9XAP	2,750 (109.1), to 2,850 (105.3)...	1,000	Great Lakes Broadcasting Co., 72 West Adams St., Chicago, Ill.
Downers Grove.	W9XR	2,850 (105.3) to 2,950 (101.7)....	5,000	
Indiana: West Lafayette.				
	W9XG	2,000 (150) to 2,100 (142.9).....	1,500	Purdue University.
Iowa: Iowa City...				
	W9XAZ	do.....	500	State University of Iowa.
Maryland: Silver Spring.				
	W3XK	2,000 (150) to 2,100 (142.9), 2,850 (105.3) to 2,950 (101.7).	5,000	Jenkins Laboratories, 1519 Connecticut Ave., Wash- ington, D. C.
Massachusetts:				
Boston.....				
	W1XAV	2,100 (142.9) to 2,200 (136.4)....	500	Shortwave & Television Laboratory (Inc.).
Lawrence.....				
	W1XY	2,000 (150) to 2,100 (142.9).....	250	Pilot Laboratories (Inc.).
Lexington.....				
	W1XAY	do.....	5,000	Lexington Air Stations, Adams St., care of Carl S. Wheeler.
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 Liberty Ave., New York N. Y.
Bound Brook..				
	W3XL	2,850 (105.3) to 2,950 (101.7)....	30,000	R. C. A. Communications, (Inc.).
Camden.....				
	W3XAD	do.....	500	R. C. A. Victor Co. (Inc.).
Jersey City...				
	W2XCR	2,750 (109.1) to 2,850 (105.3)....	5,000	Jenkins Television Corp., 346-370 Claremont Ave.
Newark.....				
	W2XBA	do.....	500	W.A.A.M. (Inc.), 7 Bond St.
Passaic.....				
	W2XCD	2,000 (150) to 2,100 (142.9).....	5,000	De Forest Radio Co.
New York:				
Beacon.....				
	W2XBUB	do.....	100	Harold E. Smith.
Long Island City.				
	W2XBO	2,000 (150) to 2,100 (142.9), 2,750 (109.1) to 2,850 (105.3).	5,000	United Research Corp., 39-41 Van Pelt Ave.
Do.....				
	W2XR	2,100 (142.9) to 2,200 (136.4), 2,850 (105.3) to 2,950 (101.69).	500	Radio Pictures (Inc.), 3104 Northern Boulevard.
New York.....				
	W2XCO	2,100 (142.9) to 2,200 (136.4)....	5,000	R. C. A.
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, 355 Fifty- Eighth St.
Pennsylvania:				
East Pittsburgh.				
	W8XAV	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.
Do.....				
	W8XT	660 (455).....	25,000	Do.
PORTABLE				
New Jersey:				
Bound Brook..				
	W3XAK	2,000 (150) to 2,100 (142.9).....	5,000	R. C. A.
Jersey City...				
	W2XAP	2,750 (109.1) to 2,850 (105.3)....	250	Jenkins Television Corp.
New York: New York.				
	W2XBS	2,000 (150) to 2,100 (142.9).....	5,000	R. C. A., 66 Van Cortlandt Park, South.
Aircraft: Unnamed.				
	W10XU	2,000 (150) to 2,100 (142.9).....	10	Jenkins Laboratories, 1519 Connecticut Ave., Wash- ington, D. C.

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	Wanno, Mass.	W2XBV	New York, N. Y. ¹
W1XAC	Providence, R. I.	W2XBW	Garden City, N. Y.
W1XAF	Boston, Mass.	W2KBX	NC4616. ²
W1XAI	Medford, Mass. ¹	W2KBY	Jersey City, N. J.
W1XAM	South Manchester, Conn.	W2KBZ	New Brunswick, N. J.
W1XAN	Dartmouth, Mass. ¹	W2XC	Babylon, N. Y.
W1XAV	Boston, Mass.	W2XCA	767. ²
W1XAW	Medford, Mass.	W2XCB	Grasmere, N. Y.
W1XAY	Lexington, Mass.	W2XCC	New Dorp, N. Y.
W1XAZ	East Springfield, Mass.	W2XCD	Passaic, N. J.
W1XB	Somerville, Mass.	W2XCE	Brooklyn, N. Y.
W1XC	Marion, Mass.	W2XCH	Schenectady, N. Y. (airport).
W1XE	Boston, Mass.	W2XCI	New York, N. Y.
W1XF	Hartford, Conn.	W2XCK	Little Neck, N. Y.
W1XI	Gloucester, Mass.	W2XCM	Sayville, N. Y.
W1XJ	Cambridge, Mass.	W2XCN	South Schenectady, N. Y.
W1XK	Mills, Mass. ¹	W2XCO	New York, N. Y.
W1XL	Hartford, Conn.	W2XCP	Allwood, N. J.
W1XM	Cambridge, Mass.	W2XCQ	Rocky Point, N. Y. ¹
W1XN	Middletown, Conn.	W2XCR	Jersey City, N. J.
W1XO	Cambridge, Mass.	W2XCS	Port Washington, N. Y.
W1XP	South Dartmouth, Mass.	W2XCT	New York, N. Y.
W1XQ	Bradley, Me.	W2XCU	Ampere, N. J.
W1XR	Houlton, Me. ¹	W2XCV	Roosevelt Field, N. Y.
W1XS	Chestnut Hill, Mass.	W2XCW	Schenectady, N. Y.
W1XT	Boston, Mass.	W2XCX	Kearny, N. J.
W1XV	Dartmouth, Mass.	W2XCY	Linden, N. J.
W1XY	Lawrence, Mass.	W2XD	Tuckerton, N. J.
W1XZ	Worcester, Mass.	W2XD	Cross Hassock Bay, N. Y.
	Second district:	W2XF	Cliffwood, N. J.
W2XA	Rocky Point, N. Y.	W2XG	Ocean, N. J.
W2XAA	New York, N. Y. ¹	W2XI	Schenectady, N. Y.
W2XAB	Yonkers, N. Y.	W2XJ	Deal, N. J.
W2XAD	South Schenectady, N. Y.	W2XK	South Schenectady, N. Y.
W2XAE	Schenectady, N. Y.	W2XL	Newark, N. J.
W2XAF	South Schenectady, N. Y.	W2XM	Holmdel, N. J.
W2XAG	Do.	W2XN	New York, N. Y.
W2XAH	Do.	W2XO	South Schenectady, N. Y.
W2XAI	Newark, N. J.	W2XP	Winfield, N. Y.
W2XAK	South Schenectady, N. Y.	W2XQ	New York, N. Y.
W2XAL	Coytesville, N. J.	W2XR	Long Island City, N. Y.
W2XAM	New Brunswick, N. J.	W2XS	Rocky Point, N. Y.
W2XAN	Nassau County, N. Y.	W2XT	Do.
W2XAO	New Brunswick, N. J.	W2XU	New York, N. Y.
W2XAP	Jersey City, N. J. ¹	W2XV	Long Island City, N. Y.
W2XAQ	X118E. ²	W2XW	New York, N. Y.
W2XAR	Long Island City, N. Y.	W2XX	Ossining, N. Y.
W2XAS	Rocky Point, N. Y.	W2XY	Newark, N. J. (airport).
W2XAT	Utica. ²	W2XZ	Bellmore, N. Y.
W2XAV	Ocean, N. J. ¹		Third district:
W2XAW	South Schenectady, N. Y.	W3XAB	Camden, N. J.
W2XAX	New York, N. Y. ¹	W3XAD	Do.
W2XB	New York, N. Y.	W3XAJ	Do.
W2XBA	Newark, N. J.	W3XAL	Bound Brook, N. J.
W2XBB	Brooklyn, N. Y.	W3XAM	Do.
W2XBD	Garden City, N. Y.	W3XAU	Philadelphia, Pa. (Byberry).
W2XBE	New York, N. Y. ¹	W3XC	Do.
W2XBF	Mount Vernon, N. Y.	W3XD	Alexandria, Va.
W2XBG	Garden City, N. Y.	W3XE	Baltimore, Md.
W2XBI	Rocky Point, N. Y.	W3XF	Fredericksburg, Va.
W2XBJ	Do.	W3XG	Do.
W2XBK	Weehawken, N. J.	W3XH	Richmond, Va.
W2XBL	Rocky Point, N. Y.	W3XI	Baltimore, Md.
W2XBM	Do.	W3XK	Silver Springs, Md.
W2XBN	Schenectady, N. Y.	W3XL	Bound Brook, N. J.
W2XBO	Long Island City, N. Y.	W3XM	Philadelphia, Pa.
W2XBP	Rocky Point, N. Y.	W3XN	Whippany, N. J.
W2XBQ	No. 4876. ²	W3XO	New Jersey.
W2XBR	New York, N. Y. ¹	W3XQ	Mountain Lakes, N. J.
W2XBS	New York, N. Y.	W3XR	Mendham, N. J.
W2XBU	Beacon, N. Y.	W3XS	Philadelphia, Pa.

See footnotes to this table on p. 203.

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.		Eight district—Continued.
W3XU	Washington, D. C.	W8XE	State College, Pa.
W3XW	Boonton, N. J.	W8XF	Cleveland, Ohio.
W3XZ	Washington, D. C.	W8XG	Ohio. ¹
	Fourth district:	W8XH	Buffalo, N. Y.
K4XC	San Juan, P. R.	W8XI	East Pittsburgh, Pa.
K4XK	Do.	W8XJ	West Dover, Ohio.
W4XA	Miami, Fla.	W8XK	East Pittsburgh, Pa.
W4XB	Do.	W8XL	Dayton, Ohio.
W4XC	Hialeah, Fla.	W8XO	Cleveland, Ohio.
W4XD	Miami Beach, Fla.	W8XP	East Pittsburgh, Pa. ¹
	Fifth district:	W8XS	Do.
W5XA	Brownsville, Tex.	W8XT	Do.
W5XH	New Orleans, La.	W8XZ	Detroit, Mich.
	Sixth district:		Ninth district:
K6XAK	Honolulu, Hawaii. ¹	W9XA	Denver, Colo.
K6XB	Kawahine, Hawaii. ¹	W9XAA	Chicago, Ill.
K6XBZ	Honolulu, Hawaii. ¹	W9XAG	Do.
K6XK	Fort Shafter, Hawaii.	W9XAH	Do. ¹
K6XO	Kahuku, Hawaii.	W9XAK	Do. ¹
K6XP	Honolulu, Hawaii.	W9XAL	Addison, Ill.
K6XS	Do.	W9XAM	Elgin, Ill.
K6XX	Lahaina, Hawaii.	W9XAO	Chicago, Ill.
W6XA	Salt Lake City, Utah.	W9XAP	Do.
W6XAD	San Francisco, Calif.	W9XAP	Addison, Ill.
W6XAF	Sacramento, Calif.	W9XAS	Lake, Wis.
W6XAI	Beverly Hills, Calif.	W9XAW	Houghton, Mich.
W6XAJ	Los Angeles, Calif. ¹	W9XAZ	Iowa City, Iowa.
W6XAL	Westminster, Calif. (near).	W9XB	Culver, Ind.
W6XAN	Los Angeles, Calif.	W9XC	Chicago, Ill.
W6XAP	Do. ¹	W9XD	Gunnison, Colo.
W6XAQ	San Mateo County, Calif.	W9XE	Golden, Colo. ¹
W6XAX	Oakland, Calif. ¹	W9XF	Downers Grove, Ill.
W6XAY	Palo Alto, Calif.	W9XG	West Lafayette, Ind.
W6XBA	Metlia Nelson. ³	W9XH	Madison, Wis.
W6XBB	San Francisco, Calif.	W9XI	Minneapolis, Minn.
W6XBK	Do. ¹	W9XJ	Grand Forks, N. Dak.
W6XBL	Berkeley, Calif.	W9XK	Rantoul, Ill.
W6XBO	Los Angeles, Calif.	W9XL	Anoka, Minn.
W6XBR	Do. ¹	W9XM	Chicago, Ill.
W6XBX	Galt, Calif.	W9XO	Do.
W6XE	Orange, Calif.	W9XP	Do.
W6XF	California No. 1. ¹	W9XR	Downers Grove, Ill.
W6XG	Oakland, Calif. ¹	W9XU	Council Bluffs, Iowa.
W6XH	Stanford University, Calif. ¹	W9XV	Cartersville, Mo.
W6XI	Bollinas, Calif.	W9XW	Hastings, Nebr.
W6XJ	California No. 2. ¹	W9XY	Chicago, Ill.
W6XL	Alameda, Calif.		Aircraft and portable:
W6XM	Berkeley, Calif.	W10XA	United States (throughout). ¹
W6XN	Oakland, Calif.	W10XAA	NC-417H. ²
W6XQ	Sixth radio district. ¹	W10XAB	Casco. ³
W6XR	Salt Lake City, Utah. ¹	W10XAD	NC-96S1. ²
W6XV	Palo Alto, Calif.	W10XAE	NC-9675. ²
W6XW	Oakland, Calif.	W10XAF	(?)
W6XZ	San Francisco, Calif.	W10XAG	NC-179N. ²
	Seventh district:	W10XB	United States (throughout). ¹
X7XD	Libbyville, Alaska.	W10XC	Do. ¹
K7XF	Boca de Quadra, Alaska (also vessel "Kiska").	W10XD	Do. ¹
	Portland, Oreg. ¹	W10XE	Do. ¹
W7XA	Do.	W10XF	X855E. ²
W7XAO	Seventh radio district. ¹	W10XH	NX 7918. ²
W7XAP	Do. ¹	W10XI	NC9746. ²
W7XAQ	Do. ¹	W10XK	(?)
W7XAS	Wenatchee, Wash.	W10XL	NC9779. ²
W7XAT	East Wenatchee, Wash.	W10XM	Truck No.1. ¹
W7XB	Bozeman, Mont.	W10XN	NC1592. ²
W7XC	Seattle, Wash. ¹	W10XO	C2614. ²
W7XE	Do.	W10XP	C3002. ²
W7XF	Do.	W10XQ	NC9745. ²
	Eight district:	W10XR	Unnamed. ²
W8XA	(?)	W10XS	NC9677. ²
W8XAC	Rochester, N. Y.	W10XT	(?)
W8XAG	Dayton, Ohio.	W10XU	Unnamed. ²
W8XAL	Mason, Ohio.	W10XV	NC8013. ²
W8XAV	East Pittsburgh, Pa.	W10XW	Unnamed. ²
W8XAW	Morgantown, W. Va.	W10XX	Truck No. 2. ¹
W8XB	Utica, Mich.	W10XY	Truck No. 3. ¹
W8XC	X-7654. ²	W10XZ	Unnamed. ²
W8XD	Cleveland, Ohio.		

¹ Portable.

² Aircraft.

³ Vessel.

⁴ Train.

⁵ Parachute.

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

FIRST DISTRICT

ALPHABETICALLY BY CALL SIGNALS

Call signal	Licensee	Location and address
W1YA	University of Maine.....	Orono, Me.
W1YB	Dartmouth College.....	Hanover, N. H.
W1YD	Norwich University.....	Northfield, Vt.
W1YE	Massachusetts Institute of Technology.....	Cambridge, Mass.
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.....	W1YS	Vermont: Northfield.....	W1YD
Cambridge.....	W1YE		
Worcester.....	W1YK		

THIRD DISTRICT

ALPHABETICALLY BY CALL SIGNALS

Call signal	Licensee	Location and address
W3YA	Loomis Radio College.....	405 Ninth St. NW., Washington, D. C.
W3YB	Commercial Radio Institute.....	38 W. Biddle St., Baltimore, Md.
W3YG	R. C. A. Institutes, Inc.....	1211 Chestnut 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

FOURTH DISTRICT

ALPHABETICALLY BY CALL SIGNALS

Call signal	Licensor	Location and address
W4YA	Georgia School of Technology Radio Club (J. M. Eubanks).	Georgia School of Technology, Atlanta, Ga. (P. O. address, Box 151, Georgia School of Technology, Atlanta, Ga.).
W4YB	Ida M. Fisher High School (Carl E. Menneken).	Drexel Ave. and Fourteenth St., Miami Beach, Fla.
W4YC	Technical High School (Charles H. Krueger).	Eighth and Jackson Sts., Atlanta, Ga.
W4YD	Senior High School (Robert E. Lee)	Knight and McDull Aves., Jacksonville, Fla.

ALPHABETICALLY BY STATES AND CITIES

Location	Call signal	Location	Call signal
Florida: Jacksonville.....	W4YD	Georgia: Atlanta.....	W4YA
Miami Beach.....	W4YB	Do.....	W4YC

FIFTH DISTRICT

ALPHABETICALLY BY CALL SIGNALS

Call signal	Licensor	Location and address
W5YA	New Mexico College of A. & M. Arts.....	State College, N. Mex.
W5YC	Chenier Business College of Beaumont.....	571 Orleans St., Beaumont, Tex.
W5YD	Mississippi A. & M. College, department of physics.	A. & M. College, Miss.
W5YE	Board of education, Oklahoma City.....	Seventh and Robinson Sts., Oklahoma City, Okla.
W5YG	The Rice Institute.....	Main St., Houston, Tex.
W5YH	Port Arthur College.....	1500 Proctor St., Port Arthur, Tex.
W5YI	Wallace Radio Institute.....	103 W. Thirteenth St., Oklahoma City, Okla.
W5YM	New Braunfels High School.....	145 N. Academy St., New Braunfels, Tex.
W5YN	Mississippi College, physics department.....	Clinton, Miss.
W5YS	Brantley Draughon College.....	415½ Main St., Fort Worth, Tex.
W5YT	Tyler Commercial College.....	201 S. 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: Beaumont.....	W5YC
Mississippi: A. & M. College.....	W5YD	Fort Worth.....	W5YS
Clinton.....	W5YN	Houston.....	W5YG
New Mexico: State College.....	W5YA	New Braunfels.....	W5YM
Oklahoma: Oklahoma City.....	W5YE	Port Arthur.....	W5YH
Do.....	W5YI	Tyler.....	W5YT

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

SIXTH DISTRICT

ALPHABETICALLY BY CALL SIGNALS

Call Signal	Licensee	Location and address
K6YAJ	Lahainaluna Technical High School.....	Lahaina, Hawaii.
K6YAL	McKinley High School.....	1031 South King St., Honolulu, Hawaii.
W6YA	Radio School of Los Angeles.....	715 South Hope St., Los Angeles, Calif.
W6YAA	Fullerton Junior College.....	Fullerton, Calif.
W6YAB	Reedley Junior College.....	Campus on North Ave., Reedley, Calif.
W6YAC	Los Angeles High School.....	4600 Country Club Drive, Los Angeles, Calif.
W6YAD	Manual Arts Evening High School.....	Forty-second and Vermont Ave., Los Angeles, Calif.
W6YAE	Pasadena Junior College.....	1570 East Colorado St., Pasadena, Calif.
W6YAF	California School of Mechanical Arts.....	Sixteenth and Utah Sts., San Francisco, Calif.
W6YAG	Mission High School.....	Eighteenth and Dolores Sts., San Francisco, Calif.
W6YAH	Jefferson High School Student Body.....	1319 East Thirty-eighth St., Los Angeles, Calif.
W6YAI	Polytechnic College of Engineering.....	1310 Madison St., Oakland, Calif.
W6YAK	Whittier College.....	642 North Washington St., Whittier, Calif.
W6YAM	Polytechnic High School.....	Frederick St. near First Ave., San Francisco, Calif.
W6YAO	University of Santa Clara.....	Santa Clara, Calif.
W6YAP	Polytechnic High School.....	400 West Washington St., Los Angeles, Calif.
W6YAQ	Sequoia Union High School.....	Redwood City, Calif.
W6YAR	University of Nevada.....	University Engineering Building, Reno, Nev.
W6YAS	Frank Wiggins Trade School.....	216 Venice Boulevard, Los Angeles, Calif.
W6YC	University of Redlands.....	Redlands, Calif.
W6YD	National Automotive and Electrical School.....	4006 South Figueroa St., Los Angeles, Calif.
W6YE	Galt Technical Junior College for Aeronautics.....	Galt, Calif.
W6YF	Santa Cruz High School.....	Walnut Ave., Santa Cruz, Calif.
W6YG	Radio School of Los Angeles.....	3207 La Clede Ave., Los Angeles, Calif.
W6YH	Pacific Radio School.....	433 Call Building, San Francisco, Calif.
W6YI	Oakland Technical High School.....	Forty-fifth and Broadway, Oakland, Calif.
W6YJ	Hayward Union High School.....	Hayward, Calif.
W6YK	San Jose State Teachers College.....	San Jose, Calif.
W6YL	Central High School.....	Twelfth and Jefferson Sts., Oakland, Calif.
W6YM	Airtech School of Aviation.....	Lindbergh Field, San Diego, Calif.
W6YN	East Bay Radio Institute.....	3618 East Fourteenth St., Oakland, Calif.
W6YO	College of the Pacific.....	Pacific Ave. and Stadium Drive, Stockton, Calif.
W6YP	Airtech School of Aviation.....	Lindbergh Field, San Diego, Calif. ¹
W6YQ	Radio College of California.....	921 West Sixth St., Los Angeles, Calif.
W6YR	Sacramento High School.....	Thirty-fourth and Y Sts., Sacramento, Calif.
W6YS	Eagle Rock High School.....	1750 Yosemite Drive, Los Angeles, Calif.
W6YT	San Mateo Junior College.....	Baldwin Ave. at San Mateo Drive, San Mateo Calif.
W6YU	Eagle Rock High School.....	1750 Yosemite Drive, Los Angeles, Calif. ¹
W6YV	San Diego Senior High School.....	Twelfth and Russ Sts., San Diego, Calif.
W6YW	Stanford University Radio Department.....	Box 60, Stanford University, Calif.
W6YX	Compton Union High School and Junior College.....	Acacia and Myrrh Sts., Compton, Calif.
W6YZ		

¹ Portable.

ALPHABETICALLY BY STATES AND CITIES

Location	Call signal	Location	Call signal
California:		California—Continued	
Compton.....	W6YZ	Sacramento.....	W6YS
Fullerton.....	W6YAA	San Diego.....	W6YN
Galt.....	W6YF	Do.....	W6YW
Hayward.....	W6YK	San Francisco.....	W6YAF
Los Angeles.....	W6YA	Do.....	W6YAQ
Do.....	W6YAC	Do.....	W6YAM
Do.....	W6YAD	Do.....	W6YI
Do.....	W6YAH	San Jose.....	W6YL
Do.....	W6YAP	San Mateo.....	W6YU
Do.....	W6YAS	Santa Clara.....	W6YAO
Do.....	W6YD	Santa Cruz.....	W6YG
Do.....	W6YH	Stanford University.....	W6YX
Do.....	W6YR	Stockton.....	W6YP
Do.....	W6YT	Whittier.....	W6YAK
Oakland.....	W6YAI	Hawaii:	
Do.....	W6YJ	Honolulu.....	K6YAL
Do.....	W6YM	Lahaina.....	K6YAJ
Do.....	W6YO	Nevada: Reno.....	W6YAR
Pasadena.....	W6YAE		
Redlands.....	W6YC	PORTABLE	
Redwood City.....	W6YAQ	Los Angeles.....	W6YV
Reedley.....	W6YAB	San Diego.....	W6YQ

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	Licensee	Location and address
W7YA	Independent school district of Boise City— Boise High School.	Boise, Idaho.
W7YB	Roosevelt High School.....	Sixty-sixth St. and Fourteenth Ave. NE., Seattle, Wash.
W7YC	Y. M. C. A. Radio School.....	Fourth Ave. and Madison St., Seattle, Wash.
W7YD	University of Washington.....	University Campus. Seattle, Wash.
W7YE	North Junior High School.....	Twenty-fifth and McDougall Sts., Everett, Wash.
W7YG	Oregon Institute of Technology.....	Lownsdale and Taylor Sts., Portland, Oreg.
W7YH	State College of Washington.....	Mechanical Arts Building, Pullman, Wash.
W7YJ	Oregon State Agricultural College.....	Campus, Corvallis, Oreg.
W7YK	Benson Polytechnic School.....	East Twelfth and Hoyt Sts., Portland, Oreg.
W7YL	North Central High School.....	516 Augusta St., Spokane, Wash.
W7YS	St. Martins College.....	Lacey, Wash.

ALPHABETICALLY BY STATES AND BY CITIES

Location	Call signal	Location	Call signal
Idaho: Boise.....	W7YA	Washington—Continued	
Oregon:		Lacey.....	W7YS
Corvallis.....	W7YJ	Pullman.....	W7YH
Portland.....	W7YG	Seattle.....	W7YB
Do.....	W7YK	Do.....	W7YC
Washington:		Do.....	W7YD
Everett.....	W7YE	Spokane.....	W7YL

EIGHTH DISTRICT

ALPHABETICALLY BY CALL SIGNALS

Call signal	Licensee	Location and address
W8YA	Pennsylvania State College.....	Department of Electrical Engineering College Campus, State College, Pa.
W8YB	The McKesson Radio School.....	Forrest Ave., Frankfort, Mich.
W8YP	Elmer S. Pierce.....	Seneca Vocational School, 666 E. 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 BY CITIES

Location	Call signal	Location	Call signal
Michigan: Frankfort.....	W8YB	Pennsylvania:	
New York: Buffalo.....	W8YP	Grove City.....	W8YV
Ohio: Cincinnati.....	W8YX	State College.....	W8YA

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	Licenses	Location and address
W9YA	State University of Iowa.....	Iowa City, Iowa.
W9YAB	Washington University.....	Skinker at Lindell Boulevard, St. Louis, Mo.
W9YAH	Western State College of Colorado.....	College Ave., Gunnison, Colo.
W9YAM	University of South Dakota.....	Campus of University of South Dakota, Vermillion, S. Dak.
W9YB	Purdue University.....	Electrical Engineering Building, West Lafayette, Ind.
W9YC	University of Minnesota.....	Electrical Engineering Building, Minneapolis, Minn.
W9YE	Chicago Radio Institute.....	64 East Lake St., Chicago, Ill.
W9YF	Federal Radio and Railway Institute (Inc.).....	517 Wells St., Milwaukee, Wis.
W9YG	The William Hood Dunwoody Industrial Institute.....	818 Superior Boulevard, Minneapolis, Minn.
W9YH	Board of trustees of University of Illinois.....	University of Illinois, Urbana, Ill.
W9YI	Iowa State College.....	Ames, Iowa.
W9YJ	Crane Technical High School.....	Oakley and Jackson Boulevard, Chicago, Ill.
W9YK	The Duluth Junior College.....	Forty-fourth Ave. W., and Fourth St., Duluth, Minn.
W9YL	University of Colorado.....	Electrical Engineering Department, Boulder, Colo.
W9YM	Board of Education, School District of Omaha, Technical High School.....	Thirty-third and Cumming Sts., Omaha, Nebr.
W9YN	Manchester College.....	Department of Physics, 508-708 College Ave., North Manchester, Ind.
W9YO	James Millikin University.....	1188 West Main St., Decatur, Ill.
W9YP	University of Illinois.....	University Armory, Champaign, Ill.
W9YQ	University of Colorado.....	Hale Science Building, Boulder, Colo.
W9YU	Doane College.....	Carnegie Science Building, Crete, Nebr.
W9YV	Dodge's Telegraph, Railway Accounting and Radio (Wireless) Institute.....	407 Monroe St., Valparaiso, Ind.

ALPHABETICALLY BY STATES AND CITIES

Location	Call signal	Location	Call signal
Colorado:		Iowa:	
Boulder.....	W9YL	Ames.....	W9YI
Do.....	W9YQ	Iowa City.....	W9YA
Gunnison.....	W9YAH	Minnesota:	
Illinois:		Duluth.....	W9YK
Champaign.....	W9YP	Minneapolis.....	W9YC
Chicago.....	W9YE	Do.....	W9YG
Do.....	W9YJ	Missouri: St. Louis.....	W9YAB
Decatur.....	W9YO	Nebraska:	
Urbana.....	W9YH	Crete.....	W9YU
Indiana:		Omaha.....	W9YM
North Manchester.....	W9YN	South Dakota: Vermillion.....	W9YAM
Valparaiso.....	W9YV	Wisconsin: Milwaukee.....	W9YF
West Lafayette.....	W9YB		

APPENDIX

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

Vessel	Owner	Vessel	Owner
A. A. Augustus	Pioneer S. S. Co.	Arizonan	Williams S. S. Corp.
Abangarez	United Fruit S. S. Corp.	Aryan	Texas Co.
A. C. Bedford	Standard Shipping Co.	Ashtabula	Pennsylvania & Ontario Nav. Co.
Actno	Standard Transpn. Co.	Astral	Standard Transpn. Co.
Adam E. Cornelius	American S. S. Co.	A. T. Kinney	Kinney S. S. Co.
A. D. Macbeth	Buckeye S. S. Co.	Atenas	United Fruit S. S. Corp.
Admiral Dewey	Pacific S. S. Co.	Atlas	Standard Transpn. Co.
Admiral Evans	Do.	Augustus B. Wolvin	Interlake S. S. Co.
Admiral Farragut	Do.	August Ziesing	Pittsburgh S. S. Co.
Admiral Fiske	Do.	Aurora	Standard Transpn. Co.
Admiral Peoples	Portland-California S. S. Co.	Australian	Texas Co.
Admiral Schley	Pacific S. S. Co.	A. W. Osborne	Wilson Transit Co.
Adriatic	Interlakes S. S. Co.	Axtell J. Byles	Tidewater Associated Transpn. Corp.
A. E. Nettleton	Great Lakes S. S. Co.	Azteca	Albert C. Burrage.
A. E. R. Schneider	Morrow S. S. Co.	Beacon	Beacon Oil Co. (Inc.)
A. F. Harvey	Pittsburgh S. S. Co.	Beaconlight	National Bank of Com- merce in New York.
A. H. Ferbert	Do.	Beaconoil	Do.
Alabama	Goodrich Transit Co. Texas Co.	Beaconstar	Beacon Oil Co.
Aladdin	Standard Transpn. Co.	Benjamin Brewster	Standard Shipping Co.
Alameda	Alaska S. S. Co.	Tenson Ford	Ford Motor Co.
Alaska	Do.	Berkshire	Merchants & Miners Transpn. Co.
Alaskan	American-Hawaiian S. S. Co.	Do	Berkshire S. S. Co.
Alaska Standard	Standard Oil Co. of Calif.	Berwindglen	Wilmore S. S. Co.
Alder	William Boyce Thomp- son.	Berwindvale	Do.
Alexander McDougall	Pittsburgh S. S. Co.	Bethlehem	Bethlehem Transpn. Corp.
Algonquin	Standard Transpn. Co.	Betterton	Associated Oil Co.
Do	Cherokee-Seminole S. S. Corp.	B. F. Affleck	Pittsburgh S. S. Co.
All America	All America Cable Co.	B. F. Jones	Interstate S. S. Co.
Alleghany	Merchants & Miners Transpn. Co.	B. H. Taylor	Bradley Transpn. Co.
Alpena	Wyandotte Transpn. Co.	Bird City	American Scantic Line.
Altair	Standard Transpn. Co.	Birkenhead	Vacuum Oil Co.
Alva C. Dinkey	Pittsburgh S. S. Co.	Black Point	Black Point S. S. Co.
Amasa Stone	Interlake S. S. Co.	Boston	Eastern S. S. Lines.
Amazon	Pioneer S. S. Co.	Broad Arrow	Standard Transpn. Co.
A. M. Byers	Reiss S. S. Co.	Bylayl	Pocahontas S. S. Co.
America	United States Lines.	Byron D. Benson	Tidewater Oil Co.
American	American-Hawaiian S. S. Co.	C. A. Canfield	Pan-American Petroleum & Transpn. Co.
American Banker	United States Lines.	Cadillac	Cleveland Cliffs S. S. Co.
American Farmer	Do.	Calamares	United Fruit Corp.
American Legion	Munson S. S. Line.	Calcite	Bradley Transpn. Co.
American Merchant	United States Lines.	California	Texas Co.
American Shipper	Do.	Do	American Line S. S. Corp.
American Trader	Do.	Do	American-Hawaiian S. S. Co.
Amida	Ernest R. Behrend.	California Standard	Standard Oil Co. of Calif.
Ancon	Panama Railroad Co.	Calmar	Calmar S. S. Corp.
Andrea F. Luckenbach	Luckenbach S. S. Co.	Calumet	Interlake S. S. Co.
Andrew S. Upson	Kinney S. S. Co.	Camargo	Julius Fleischmann.
Angeline	Presque Isle Transpn. Co.	Cambria	Bethlehem Transpn. Corp.
Ann Arbor No. 3	Ann Arbor R. R. Co.	Cambriana	Walter O. Briggs.
Ann Arbor No. 4	Do.	Camden	United Fruit Tanker Corp.
Ann Arbor No. 5	Empire Trust Co.	Canopus	Interlake S. S. Co.
Ann Arbor No. 6	Ann Arbor Boat Co.	Captain A. F. Lucas	Standard Oil Co. of Calif.
Ann Arbor No. 7	Ann Arbor R. R. Co.	Captain Thomas Wilson	Wilson Transit Co.
Ara	William K. Vanderbilt.	Carl D. Bradley	Bradley Transpn. Co.
Arcadia	Margaret S. Hardwick.	Carmi A. Thompson	Producers S. S. Co.
Arcturus	Interlake S. S. Co.	Caroline	Eldridge R. Johnson.
Argon	Standard Transpn. Co.	Carplaka	American Scantic Line (Inc.)
Argosy	American Scantic Line (Inc.)		
Ario	Standard Transpn. Co.		
Arizona	Texas Co.		

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

Vessel	Owner	Vessel	Owner
Carrabulle.....	Cuba Distilling Co.	Crampton Anderson...	Pan-American Petroleum & Transp. Co.
Carrillo.....	United Fruit S. S. Corp.	Crescent City.....	Nicholson-Universal S. S. Co.
Cartago.....	Do.	Crossida.....	Hermann Oelrichs.
Cassimir.....	Cuba Distilling Co.	Crete.....	Interlake S. S. Co.
Catahoula.....	Do.	C. Russel Hubbard.....	Columbia S. S. Co.
Catherine D.....	Pacific American Fisheries.	Cristobal.....	Panama Railroad Co.
Cathwood.....	Union Oil Co. of Calif.	C. S. Robinson.....	Interlake S. S. Co.
Cerro-Azul.....	Pan-American Petroleum & Transp. Co.	Cubore.....	Calmar S. S. Corp.
Cerro-Ebano.....	Do.	Cygnus.....	Interlake S. S. Co.
Cetus.....	Interlake S. S. Co.	Dakotan.....	American-Hawaiian S. S. Co.
Charles C. West.....	Rockport S. S. Co.	Daniel J. Morrell.....	Cambrla S. S. Co.
Charles E. Harwood.....	Pan-American Petroleum & Transp. Co.	David P. Thompson.....	Pioneer Steamship Co.
Charles G. Black.....	Standard Shipping Co.	David Z. Norton.....	Columbia S. S. Co.
Charles Hubbard.....	Great Lakes S. S. Co.	Dean Emery.....	Pan-American Petroleum & Transport Co.
Charles L. Hutchinson.....	Pioneer S. S. Co.	D. E. Callender.....	Morrow S. S. Co.
Charles M. Everest.....	Vacuum Oil Co.	Delphine.....	Anna Dodge Dillman.
Charles M. Schwab.....	Interlake S. S. Co.	Denmark.....	Great Lakes S. S. Co.
Charles O. Jenkins.....	Jenkins S. S. Co.	Derbyline.....	Texas Co.
Charles Pratt.....	Standard Shipping Co.	Deroche.....	Union Oil Co. of Calif.
Charles S. Hebard.....	Wilson Transit Co.	D. G. Kerr.....	Pittsburgh S. S. Co.
Charlie Watson.....	Standard Oil Co. of Calif.	D. G. Scofield.....	Standard Oil Co. of California.
Chatham.....	Merchants & Miners Transp. Co.	Diamond Cement.....	Pacific Coast S. S. Co.
Cherokee.....	Cherokee Seminole S. S. Corp.	Dirigo.....	Texas Co.
Chester.....	New York Shipbuilding Corporation.	District of Columbia.....	Standard Oil Co. of California.
Chester O. Swain.....	Standard Shipping Co.	Dixie.....	Southern Pacific Co.
Chickasaw.....	American Scantie Line (Inc.)	Dixie Arrow.....	Standard Transp. Co.
Chileop.....	Chilo S. S. Co.	D. M. Clemson.....	Pittsburgh S. S. Co.
Chilso.....	Do.	D. O. Mills.....	Interlake S. S. Co.
China Arrow.....	Standard Transp. Co.	Dorchester.....	Merchants & Miners Transp. Co.
Chirikof.....	Alaska Packers' Assn.	Dorothy Alexander.....	Pacific S. S. Co.
Christy Payne.....	Standard Shipping Co.	Dorothy Luckenbach.....	Luckenbach S. S. Co.
C. H. McCullough, jr.....	Interlake S. S. Co.	Douglas Houghton.....	Pittsburgh S. S. Co.
Cities Service Boston.....	Cities Service Transp. Co.	Dungannon.....	Texas Co.
Cities Service Fuel.....	Do.	Eagle.....	Standard Transp. Co.
Cities Service Kansas.....	Do.	F. A. S. Clarke.....	Interlake S. S. Co.
Cities Service Missouri.....	Do.	Eastern Crown.....	Eastern Crown S. S. Co. (Inc.)
Cities Service Ohio.....	Do.	Eastern Guide.....	Pacific Coast S. S. Co.
Cities Service Oklahoma.....	Do.	Eastern States.....	Detroit & Cleveland Nav. Co.
Cities Service Toledo.....	Do.	East Indian.....	Ford Motor Co.
City of Birmingham.....	Ocean S. S. Co. of Savannah.	E. C. Collins.....	Pittsburgh S. S. Co.
City of Cleveland.....	Detroit & Cleveland Nav. Co.	Ecuador.....	Panama Mail S. S. Co.
City of Detroit III.....	Do.	Edgar F. Luckenbach.....	Luckenbach S. S. Co.
City of Fairbury.....	American Scantie Line (Inc.)	Edward A. Uhrig.....	Calumet Transp. Co.
City of Flint 32.....	Pere Marquette Ry. Co.	Edward J. Berwind.....	Franklin S. S. Corp.
City of New York.....	Commander R. E. Byrd.	Edward L. Doheny.....	Pan-American Petroleum & Transp. Co.
Do.....	American South African Line.	Edward L. Shea.....	Tidewater Associated Transp. Corp.
City of Panama.....	Panama Mail S. S. Co.	Edward Luckenbach.....	Luckenbach S. S. Co.
City of San Francisco.....	Do.	Edward N. Saunders, jr.....	Calumet Transp. Co.
Clarence A. Black.....	Pittsburgh S. S. Co.	Edward Y. Townsend.....	Cambrla S. S. Co.
Clemens A. Reiss.....	Reiss S. S. Co.	E. G. Mathiott.....	Valley Camp S. S. Co.
Cletus Schneider.....	Schneider S. S. Co.	E. J. Nicklos.....	Continental S. S. Co.
Clifford F. Moll.....	American S. S. Co.	E. J. Sadler.....	Standard Shipping Co.
Cliffwood.....	American Scantie Line (Inc.)	Elba.....	Interlake S. S. Co.
Colombia.....	Panama Mail S. S. Co.	Elbert H. Gary.....	Pittsburgh S. S. Co.
Col. James M. Schoonmaker.....	Shenango Furnace Co.	Elisha Walker.....	Pan-American Petroleum & Transp. Co.
Colonel.....	Fontana S. S. Co.	El Salvador.....	Panama Mail S. S. Co. (Inc.)
Colonel James Pickands.....	Interlake S. S. Co.	El Segundo.....	Standard Oil Co. of California.
Columbian.....	American-Hawaiian S. S. Co.	Elton Hoyt II.....	Interlake S. S. Co.
Conneaut.....	Wyandotte Transp. Co.	E. M. Clark.....	Standard Shipping Co.
Coppename.....	United Fruit S. S. Corp.	Emidio.....	Standard Transp. Co.
Coralia.....	Nicholson-Universal S. S. Co.	Emma Alexander.....	Pacific S. S. Co.
Cordova.....	Alaska S. S. Co.	Emory L. Ford.....	Franklin S. S. Corp.
Cornell.....	Pittsburgh S. S. Co.	Empire Arrow.....	Standard Transp. Co.
Corvus.....	Interlake S. S. Co.	Esparta.....	United Fruit S. S. Corp.
		E. T. Bedford.....	Standard Shipping Co.
		Eugene J. Buffington.....	Pittsburgh S. S. Co.

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

Vessel	Owner	Vessel	Owner
Eugene W. Pargny.....	Pittsburgh S. S. Co.	Harry W. Croft.....	Interlake S. S. Co.
Evangeline.....	Nova Scotia S. S. Corp.	Harry Yates.....	American S. S. Co.
Fairfax.....	Merchants & Miners Transp. Co.	Harvard.....	Pittsburgh S. S. Co.
Fayette Brown.....	Interlake S. S. Co.	Do.....	Los Angeles S. S. Co.
F. B. Squire.....	Jenkins S. S. Co.	Harvester.....	Texas Co.
F. H. Hillman.....	Standard Oil Co of Cali- fornia.	Harvey D. Goulder.....	Columbia S. S. Co.
F. H. Wickett.....	Pan-American Petroleum & Transp. Co.	Harvey H. Brown.....	Interlake S. S. Co.
Finland.....	Great Lakes S. S. Co.	Hawaiian.....	American-Hawaiian S. S. Co.
F. J. Luckenbach.....	Luckenbach S. S. Co.	H. C. Cadmus.....	Tugboat H. C. Cadmus, (Inc.)
Florence Luckenbach.....	Do	Heffron.....	Heffron S. S. Co.
F. Q. Barstow.....	Standard Shipping Co.	Hegira.....	Hegira S. S. Co.
Francis E. House.....	Pittsburgh S. S. Co.	Hemlock.....	Interlake S. S. Co.
Frank Billings.....	Pioneer S. S. Co.	Henry C. Frick.....	Pittsburgh S. S. Co.
Frank E. Taplin.....	Wilson Transit Co.	Henry D. Whiton.....	Union Sulphur Co.
Frank G. Drum.....	Associated Oil Co.	Henry Ford II.....	Ford Motor Co.
Frank H. Buck.....	Do	Henry G. Dalton.....	Interlake S. S. Co.
Frank H. Goodyear.....	American S. S. Co.	Henry H. Rogers.....	Pittsburgh S. S. Co.
Franklin.....	Texas Co.	Henry Phipps.....	Do
Franklin K. Lane.....	Pan-American Petroleum & Transp. Co.	Henry Steinbrenner.....	Kinsman Transit Co.
Frederic Ewing.....	Do	Herbert F. Black.....	Cleveland Cliffs S. S. Co.
Frederic R. Kellogg.....	Do	Herbert G. Wylie.....	Pan-American Petrole- um & Transp. Co.
Fred G. Hartwell.....	Franklin S. S. Corp.	Heredia.....	United Fruit S. S. Corp.
Fred W. Weller.....	Standard Shipping Co.	Herman Frasch.....	Union Sulphur Co.
Freeman.....	Peachontas S. S. Co.	Herman F. Whiton.....	Do
Frontenac.....	Cleveland Cliffs S. S. Co.	H. F. Alexander.....	Pacific S. S. Co.
Gargoyle.....	Vaeum Oil Co.	H. H. Rodgers.....	Standard Shipping Co.
G. A. Tomlinson.....	Pioneer S. S. Co.	Hi-Esmaro.....	H. E. Manville.
General Garretson.....	Wilson Transit Co.	Hilda.....	The Caddo Co.
General Markham.....	Continental S. S. Co.	H. M. Flegler.....	Standard Shipping Co.
Gen. Orlando M. Poe.....	Pittsburgh S. S. Co.	H. M. Storey.....	Standard Oil Co. of Cali- fornia.
George F. Baker.....	Do	Homer D. Williams.....	Pittsburgh S. S. Co.
George F. Rand.....	American S. S. Co.	Horace Luckenbach.....	Luckenbach S. S. Co.
George G. Crawford.....	Pittsburgh S. S. Co.	Horace S. Wilkinson.....	Great Lakes S. S. Co.
Geo. H. Jones.....	Standard Shipping Co.	Howard L. Shaw.....	Pittsburgh S. S. Co.
George G. Henry.....	Pan-American Petroleum & Transp. Co.	Howard M. Hauna, jr.....	Columbia S. S. Co.
George M. Humphrey.....	Kinsman Transit Co.	H. P. McIntosh.....	Wilson Transit Co.
George Stephenson.....	Pittsburgh S. S. Co.	H. T. Harper.....	Standard Oil Co. of Cali- fornia.
George Washington.....	United States Lines.	Huron.....	Wyandotte Transp. Co.
Do.....	Eastern S. S. Lines (Inc.).	I. C. White.....	Pan American Petroleum & Transp. Co.
George W. Barnes.....	Pan-American Petroleum & Transp. Co.	Illinois.....	Texas Co.
George W. Mead.....	Newaygo Tug Line (Inc.).	Do.....	Goodrich Transit Co.
George W. Perkins.....	Pittsburgh S. S. Co.	India Arrow.....	Standard Transp. Co.
Georgian.....	Williams S. S. Corp.	Iowan.....	American-Hawaiian S. S. Co.
Ginger Dot, jr.....	Frank B. Stearns.	Iroquois.....	New York and Miami S. S. Co.
Glenpool.....	Standard Shipping Co.	Isaac L. Elwood.....	Pittsburgh S. S. Co.
G. N. Wilson.....	American S. S. Co.	Isaac T. Mann.....	Peachontas S. S. Co.
Graham C. Woodruff.....	Nicholson-Universal S. S. Co.	Ishpeming.....	Cleveland Cliffs S. S. Co.
Grand Haven.....	Grand Trunk & Milwau- kee Car Ferry Co.	J. A. Campbell.....	Interlake S. S. Co.
Grand Island.....	Cleveland Cliffs S. S. Co.	James A. Farrell.....	Pittsburgh S. S. Co.
Grand Rapids.....	Grand Trunk & Milwau- kee Car Ferry Co.	James C. Wallace.....	Interlake S. S. Co.
Greater Buffalo.....	Detroit & Cleveland Nav. Co.	James E. Ferris.....	Pioneer S. S. Co.
Greater Detroit.....	Do	James Elwood Jones.....	Peachontas S. S. Co.
Guatemala.....	Grace S. S. Co.	James Griffiths.....	Costwise S. S. & Barge Co.
Gulfbird.....	Gulf Refining Co.	James H. Reed.....	Interlake S. S. Co.
Gulfcrest.....	Do	James J. Hill.....	Pittsburgh S. S. Co.
Gulfhawk.....	Do	James Laughlin.....	Interstate S. S. Co.
Gulf Pride.....	Do	James MacNaughton.....	Wilson Transit Co.
Gulfwing.....	Do	James McGee.....	Standard Shipping Co.
Hadnot.....	Cities Service Transp. Co.	James P. Walsh.....	Pioneer S. S. Co.
Hagood.....	Do	James Watt.....	Jenkins S. S. Co.
Haida.....	Max C. Fleischmann.	J. A. Moffett.....	Standard Oil Co. of Cali- fornia.
Halo.....	Cities Service Transp. Co.	J. A. Moffett, jr.....	Standard Shipping Co.
Hanley.....	Hanley S. S. Co.	Japan Arrow.....	Standard Transp. Co.
Harold Walker.....	Pan-American Petroleum & Transp. Co.	Java Arrow.....	Do
Harry Bowen.....	Constwise Transp. Corp.	Jay C. Morse.....	Interlake S. S. Co.
Harry Coulby.....	Interlake S. S. Co.	J. B. John.....	Petoskey Transp. Co.
Harry Luckenbach.....	Luckenbach S. S. Co.	J. C. Fitzsimmons.....	Standard Oil Co. of Cali- fornia.
Harry R. Jones.....	Interlake S. S. Co.	J. E. Savage.....	Morrow S. S. Co.
		J. E. Upson.....	Wilson Transit Co.
		J. F. Durston.....	Great Lakes S. S. Co.

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

Vessel	Owner	Vessel	Owner
J. F. Schoellkopf, jr.	American S. S. Co.	Livingston Roe	Standard Shipping.
J. J. H. Brown	Brown S. S. Co.	L. J. Drake	Do.
J. H. Sheadle	Cleveland Cliffs S. S. Co.	Lone Star	George G. Bourne. Co.
J. J. Sullivan	Pioneer S. S. Co.	Los Alamos	Standard Transpn. Co.
J. J. Turner	Calumet Transpn. Co.	Los Angeles	Union Oil Co. of Calif.
J. L. Luckenbach	Luckenbach S. S. Co.	Losmar	Calmar S. S. Corp.
J. L. Reiss	Reiss S. S. Co.	Lotosland	Lotosland Corp.
J. M. Danziger	Pan American Petroleum & Transp. Co.	Louisiana	Texas Co.
John A. Kling	Rockport S. S. Co.	Louis R. Davidson	American S. S. Co.
John Anderson	Morrow S. S. Co.	Louis W. Hill	Producers S. S. Co.
John A. Topping	Columbia S. S. Co.	Lubrico	Standard Oil Co. of California.
John B. Cowle	Great Lakes S. S. Co.	Lumberman	Coos Bay Lumber Co.
John D. Archhold	Standard Shipping Co.	Lyman C. Smith	Great Lakes S. S. Co.
John Dunn, jr.	Great Lakes S. S. Co.	Lynford E. Geer	Reiss S. S. Co.
John G. Munson	Bradley Transpn. Co.	Madison	Grand Trunk & Milwaukee Car Ferry Co.
John H. McLean	Pittsburgh S. S. Co.	Makiki	Matson Nav. Co.
John J. Boland	American S. S. Co.	Mala	Do.
John McCartney Kennedy	Valley Camp S. S. Co.	Mahama	Do.
John P. Reiss	Reiss S. S. Co.	Malletoa	Pittsburgh S. S. Co.
John Sherwin	Interlake S. S. Co.	Maliko	Matson Nav. Co.
John S. Manuel	Pioneer S. S. Co.	Malolo	Do.
John Stanton	Do.	Mana	Do.
John W. Boardman	Huron Transpn. Co.	Manitowoc	Wabash Railway Co.
John W. Gates	Pittsburgh S. S. Co.	Manoa	Matson Nav. Co.
John Worthington	Standard Shipping Co.	Manukal	Do.
Jonancy	Peachontas S. S. Co.	Manuilani	Do.
Joseph Block	Inland S. S. Co.	Margo	B. A. Masee.
Joseph G. Butler, jr.	Pioneer S. S. Co.	Marioppa	Pittsburgh S. S. Co.
Joseph H. Frantz	Columbia S. S. Co.	Marquette	Cleveland Cliffs S. S. Co.
Joseph Seep	Standard Shipping Co.	Martha E. Allen	Lake Tankers Corp.
Joseph Sellwood	Interlake S. S. Co.	Martin Mullen	Pioneer S. S. Co.
Joseph Wood	Eastern S. S. Co.	Mary D	Pacific American Fisheries Co.
Joshua A. Hatfield	Pittsburgh S. S. Co.	Maryland	Bethlehem Transpn. Corp.
J. P. Morgan, jr.	Do.	Mary Luckenbach	Luckenbach S. S. Co.
J. S. Ashley	Kinney S. S. Co.	Massmar	Calmar S. S. Corp.
J. T. Reid	Spokane S. S. Co.	Mataafa	Pittsburgh S. S. Co.
Julia Luckenbach	Luckenbach S. S. Co.	Matsonia	Matson Nav. Co.
Juniaita	Great Lakes Transit Corp.	Matthew Andrews	Kinsman Transit Co.
Jupiter	Interlake S. S. Co.	Maul	Matson Nav. Co.
Kansas	American-Hawaiian S. S. Co.	Mauna Ala	Do.
Katrina Luckenbach	Luckenbach S. S. Co.	Maunalei	Do.
Kekoskee	Richfield Oil Co.	Manunaloa	Pittsburgh S. S. Co.
Kentuckian	American-Hawaiian S. S. Co.	Maunawili	Matson Nav. Co.
Kewanee	Associated Oil Co.	McGilvray Shiras	Pittsburgh S. S. Co.
K. I. Luckenbach	Luckenbach S. S. Co.	Memory III	A. E. Fiklin.
K. R. Kingsbury	Standard Oil Co. of Calif.	Mericos H. Whittier	Associated Oil Co.
La Belle	LaBelle S. S. Co.	Metapan	United Fruit S. S. Corp.
La Brea	Union Oil Co. of California.	Mexlean	American-Hawaiian S. S. Co.
Lackawanna	Bethlehem Transpn. Corp.	M. F. Elliott	Standard Shipping Co.
Lagonda	Interlake S. S. Co.	Michael J. Bartelme	Pittsburgh S. S. Co.
Lake Ormoc	Ford Motor Co.	Michigan	Cleveland Cliffs S. S. Co.
La Perla	United Fruit S. S. Corp.	Milwaukee	Grand Trunk & Milwaukee Car Ferry Co.
La Placentia	Union Oil Co. of California.	Minnekahda	Atlantic Transp. Co.
La Purisima	Do.	Minnequa	American Seantic Line (Inc.).
Larry Doheny	Petroleum Securities Corp.	Minnesotan	American-Hawaiian S. S. Co.
Lebanon	Bethlehem Transpn. Corp.	Missourian	Do.
Lebec	Standard Transpn. Co.	Mizzpah	Eugene F. MacDonald.
L. E. Block	Inland S. S. Co.	Mohawk	Clyde S. S. Co.
Lehigh	Bethlehem Transpn. Corp.	Mojave	Standard Transpn. Co.
Lemuel Burrows	Mystic S. S. Co.	Montanan	American-Hawaiian S. S. Co.
Lena Luckenbach	Luckenbach S. S. Co.	Montebello	Union Oil Co. of California.
Leonard B. Miller	Columbia S. S. Co.	Munising	Cleveland Cliffs S. S. Co.
Leonard C. Hanna	Mahoning S. S. Co.	Nakhoda	Fred J. Fisher.
Levant Arrow	Standard Transpn. Co.	Nebraskan	American-Hawaiian S. S. Co.
Leviathan	United States Lines	Negaunee	Cleveland Cliffs S. S. Co.
Lewis Luckenbach	Luckenbach S. S. Co.	Neptune	Interlake S. S. Co.
Liebre	Standard Transpn. Co.	Nevada	States S. S. Co.
Lightburne	Texas Co.	Do.	Texas S. S. Co.
Lillian Luckenbach	Luckenbach S. S. Co.	Nevadan	American-Hawaiian S. S. Co.
Limon	United Fruit S. S. Corp.	New Jersey	Do.
Lio	Standard Transpn. Co.		Texas Co.

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

Vessel	Owner	Vessel	Owner
New York	Texas Co.	Polarine	Standard Shipping Co.
Do.	Eastern S. S. Lines.	Pomona	Pomona S. S. Co.
N. F. Leopold	Inland S. S. Co.	Pontiac	Cleveland Cliffs S. S. Co.
Norman B. Ream	Pittsburgh S. S. Co.	Portmar	Calmar S. S. Corp.
Norman Bridge	Pan-American Petroleum & Transp. Co.	Powell Stackhouse	Mahoning S. S. Co.
North American	Chicago, Duluth and Georgian Bay Transit Co.	President Adams	Dollar S. S. Lines (Inc.).
North Light	John Borden.	Do.	Do.
North Land	Eastern S. S. Lines (Inc.).	President Cleveland	Do.
Northwestern	Alaska S. S. Co.	President Garfield	Do.
Norway	Great Lakes S. S. Co.	President Grant	Admiral Oriental Line.
Nosa Chief	New Orleans and South American S. S. Co.	President Harding	United States Lines.
Nosa King	Do.	President Harrison	Dollar S. S. Lines (Inc.).
Nosa Prince	Do.	President Hayes	Do.
Nosa Queen	Do.	President Jackson	Admiral Oriental Line.
Nourmahal	Vincent Astor.	President Jefferson	Do.
Oakey L. Alexander	Pocahontas S. S. Co.	President Johnson	Do.
Oakmar	Calmar S. S. Corp.	President Lincoln	Do.
Occidental	Texas S. S. Co. (Inc.).	President Madison	Do.
Octorara	Great Lakes Transit Corporation.	President McKinley	Do.
Odanah	Interlake S. S. Co.	President Monroe	Dollar S. S. Lines (Inc.).
Ohioan	American-Hawaiian S. S. Co.	President Pierce	Do.
Olean	Vacuum Oil Co.	President Polk	Do.
Oleum	Union Oil Co.	President Roosevelt	United States Lines.
Olive K.	C. F. Kettering.	President Taft	Dollar S. S. Lines (Inc.).
Oregon	Texas Co.	President Van Buren	Do.
Oregonian	American-Hawaiian S. S. Co.	President Wilson	Do.
Oscar D. Bennett	Pan-American Petroleum & Transp. Co.	Presque Isle	Presque Isle Transp. Co.
O. S. McFarland	Lakewood S. S. Co.	Price McKinney	Pioneer S. S. Co.
O. T. Waring	Standard Shipping Co.	Princeton	Pittsburgh S. S. Co.
Outagamie	Standard Oil Co. of Ind.	Do.	Standard Shipping Co.
Pam Schneider	Schneider S. S. Co.	Queen Anne	Isaac E. Emerson.
Panaman	American-Hawaiian S. S. Co.	Queen City	Pittsburgh S. S. Co.
Pan-America	Munson S. S. Line.	Quincy A. Shaw	Calumet Transp. Co.
Panoli	Iluasteca Petroleum Co.	Rawleigh Warner	Sabine Towing Co.
Papoose	Petroleum Nav. Co.	Reaper	Texas Co.
Parismina	United Fruit S. S. Co.	Redwood	Pacific American Fisheries Co.
Pastores	Do.	Relief	Merritt, Chapman and Scott Corp.
Pat Dolhony	Petroleum Securities Corp.	Rene	Rene Corp. of Delaware.
Pathfinder	Interlake S. S. Co.	Renown	S. O. Co. of Ind.
Patricia	Vincent Astor.	Rensselaer	Pittsburgh S. S. Co.
Paul H. Harwood	Pan-American Petroleum & Transp. Co.	Republic	Petroleum Nav. Co.
Paul Luckenbach	Luckenbach S. S. Co.	Do.	United States Lines.
Paulsboro	Vacuum Oil Co.	Resolute	Merritt, Chapman and Scott Corp.
Paul Shoup	Associated Oil Co.	Richard J. Reiss	Reiss S. S. Co.
Peacock	U. S. S. B.	Richard Trimble	Pittsburgh S. S. Co.
Pegasus	Interlake S. S. Co.	Richard V. Lindabury	Do.
Penmar	Calmar S. S. Corp.	Richfield	Richfield Oil Co.
Pennsylvania	Texas Co.	Richmond	Standard Oil Co. of Calif.
Do.	American Line S. S. Corp.	R. J. Hanna	Do.
Pennsylvanian	American-Hawaiian S. S. Co.	R. L. Agassiz	Calumet Transp. Co.
Pennsylvania Sun	Sun Oil Co.	Roanoke	Texas Co.
Pentecost Mitchell	Pittsburgh S. S. Co.	Robert B. Wallace	Kinney S. S. Co.
Percival Roberts, jr.	Do.	Robert E. Lee	Robert E. Lee S. S. Corp.
Pere Marquette 15	Pere Marquette Ry. Co.	Robert Fulton	Pittsburgh S. S. Co.
Pere Marquette 17	Do.	Robert Hobson	Interlake S. S. Co.
Pere Marquette 18	Do.	Robert Luckenbach	Luckenbach S. S. Co.
Pere Marquette 19	Do.	Robert J. Ireland	Kinney S. S. Co.
Pere Marquette 20	Do.	Robert W. E. Bunsen	Pittsburgh S. S. Co.
Pere Marquette 21	Do.	Robert W. Stewart	Standard Oil Co. of Indiana.
Pere Marquette 22	Do.	Rochester	Vacuum Oil Co.
Perscus	Interlake S. S. Co.	Rose City	Rose City S. S. Co.
Peter A. B. Widener	Pittsburgh S. S. Co.	Royal Arrow	Standard Transp. Co.
Peter Reiss	Reiss S. S. Co.	R. R. Richardson	Pittsburgh S. S. Co.
Peter White	Presque Isle Transp. Co.	Ruth Alexander	Dollar S. S. Lines (Inc.).
Philip D. Block	Pioneer S. S. Co.	R. W. Stewart	Pan-American Petroleum & Transp. Co.
Philip Minch	Kinsman Transit Co.	Saga	Chas. S. Payson.
Pioneer	Cleveland Cliffs S. S. Co.	Sagaprock	American Scantic Line.
Do.	Standard Shipping Co.	Sage Brush	Shepard S. S. Co.
Plymouth	Plymouth S. S. Co.	Sagnache	American Scantic Line.
Point Breze	Atlantic Refining Co.	Samuel F. B. Morse	Pittsburgh S. S. Co.
		Samuel Mather	Interlake S. S. Co.
		Samuel Mitchell	Huron Transp. Co.
		San Gabriel	Pacific Atlantic S. S. Co.
		San Jose	United Fruit S. S. Corp.
		San Mateo	Do.
		Sanoma	Nicholson-Universal S. S. Co.
		Santa Barbara	Grace S. S. Co. (Inc.).

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

Vessel	Owner	Vessel	Owner
Santa Clara.....	Grace S. S. Co., (Inc.)	Tolosa.....	United Fruit S. S. Co.
Santa Elisa.....	Do.	Tulsagas.....	Associated Oil Co.
Santa Inez.....	Do.	Turrialba.....	United Fruit S. S. Corp.
Santa Maria.....	Union Oil Co. of Calif.	T. W. Robinson.....	Bradley Transp. Co.
Do.....	Grace S. S. Co. (Inc.)	Ulua.....	United Fruit S. S. Co.
Santa Marta.....	United Fruit S. S. Corp.	Utacarbon.....	Union Oil Co. of California.
Santa Rita.....	Grace S. S. Co. (Inc.)	Utowana.....	Allison V. Armour.
Santa Teresa.....	Do.	Vacuum.....	Vacuum Oil Co.
Saramacca.....	United Fruit S. S. Corp.	Vagabondia.....	W. L. Mellon.
Saturn.....	Interlake S. S. Co.	Vanda.....	Ernest B. Dane.
Saucon.....	Bothlehem Transp. Corp.	Vega.....	Interlake S. S. Co.
S. B. Coolidge.....	Pioneer S. S. Co.	Venezula.....	Panama Mail S. S. Co.
S. B. Hunt.....	Standard Shipping Co.	Venus.....	Interlake S. S. Co.
S. B. Way.....	Valley Camp S. S. Co.	Vermar.....	Calmar S. S. Corp.
Schenectady.....	American Seantic Line.	Verona.....	Interlake S. S. Co.
S. C. T. Dodd.....	S. O. Co. of California.	Vesta.....	Standard Transp. Co.
Seaborn.....	Richard F. Howe.	Victoria.....	Alaska S. S. Co.
Sea Thrush.....	Shepard S. S. Co.	Victory.....	Interlake S. S. Co.
Seminole.....	Cherokee-Seminole S. S. Corp.	Viking.....	George F. Baker, jr.
Shawnee.....	New York & Miami S. S. Corp.	Virginia.....	Texas Co.
Shenandoah.....	Texas Co.	Do.....	American S. S. Lines Corp.
Shenango.....	Shenago Furnace Co.	Virginian.....	American-Hawaiian S. S. Co.
S. H. Robbins.....	Wilson Transit Co.	Wabash.....	Wabash Railway Co.
Silvercreek.....	Clegg Ship Operating Corp.	Walter A. Luchenbach.....	Lukenbach S. S. Co.
Silverspruce.....	Do.	Walter Jennings.....	Standard Shipping Co.
Simon J. Murphy.....	Pittsburgh S. S. Co.	Walter Miller.....	Continental S. S. Co.
Sir Thomas Shaughnessy.....	Jenkins S. S. Co.	Warwick.....	Union Oil Co. of California.
Sir Wm. Fairbairn.....	Pittsburgh S. S. Co.	Washington.....	States S. S. Co.
Sixaola.....	United Fruit S. S. Corp.	W. C. Richardson.....	Columbia S. S. Co.
Smith Thompson.....	Great Lakes S. S. Co.	W. C. Teagle.....	Standard Shipping Co.
S. M. Spalding.....	Pan-American Petroleum and Transp. Co.	W. D. Calverley, jr.....	Pioneer S. S. Co.
Socony.....	Standard Transp. Co.	W. D. Rees.....	Wilson Transit Co.
Solana.....	Associated Oil Co. of California.	Western Ocean.....	North American Fruit & S. S. Corp.
Solitaire.....	Texas Co.	Western States.....	Detroit and Cleveland Nav. Co.
Sonora.....	Nicholson-Universal S. S. Co.	Western Wave.....	North American Fruit & S. S. Corp.
South American.....	Chicago, Duluth and Georgian Bay Transit Co.	Western World.....	Munson S. S. Line.
Southern Cross.....	Munson S. S. Line.	W. F. White.....	Bradley Transp. Co.
Standard.....	Standard Shipping Co.	W. H. Libby.....	Standard Shipping Co. (Inc.)
Standard Arrow.....	Standard Transp. Co.	W. H. McGean.....	Pioneer S. S. Co.
Standard Service.....	Standard Oil Co. of California.	W. H. Tilford.....	Standard Shipping Co.
S. T. Crapo.....	Huron Transp. Co.	Wilhelmina.....	Matson Nav. Co.
Steelton.....	Bethlehem Transp. Corp.	Willboro.....	Williams S. S. Co.
Stephen M. Clement.....	American S. S. Co.	Williet.....	U. S. S. B.
Sultana.....	Nicholson-Universal S. S. Co.	Willfaro.....	Williams S. S. Co.
Sumar.....	David C. Whitney.	William A. Amberg.....	Producers S. S. Co.
Suriname.....	United Fruit S. S. Corp.	William A. McGonagle.....	Pittsburgh S. S. Co.
Susan V. Luckenbach.....	Luckenbach S. S. Co.	William A. Paine.....	Pioneer S. S. Co.
Sylvan Arrow.....	Standard Transp. Co.	William A. Reiss.....	Reiss S. S. Co.
Taurus.....	Interlake S. S. Co.	William B. Davock.....	Interlake S. S. Co.
Tejon.....	Standard Transp. Co.	William B. Dickson.....	Pittsburgh S. S. Co.
Texan.....	American-Hawaiian S. S. Co.	William B. Pilkey.....	Do.
Texas.....	Texas Co.	William B. Schiller.....	Do.
Texmar.....	Calmar S. S. Corp.	William C. Atwater.....	Wilson Transit Co.
The Harvester.....	International Harvester Co.	William D. Crawford.....	Virginia S. S. Co.
Theodore H. Wickwire.....	American S. S. Co.	William E. Corey.....	Pittsburgh S. S. Co.
Theodore H. Wickwire, jr.....	Do.	William Edenborn.....	Do.
Thomas Britt.....	Lakewood S. S. Co.	William F. Stifel.....	Columbia S. S. Co.
Thomas F. Cole.....	Pittsburgh S. S. Co.	William G. Mather.....	Cleveland Cliffs S. S. Co.
Thomas H. Wheeler.....	Standard Shipping Co.	William Green.....	Pan-American Petroleum & Transp. Co.
Thomas Lynch.....	Pittsburgh S. S. Co.	William H. Donner.....	Mahoning S. S. Co.
Thomas Walters.....	Interstate S. S. Co.	William H. Doheny.....	Pan-American Petroleum & Transp. Co.
Tidewater.....	Tidewater Oil Co.	William H. Machen.....	Pocahontas S. S. Co.
Tiger.....	Standard Transp. Co.	William H. Truesdale.....	Brown S. S. Co.
Timberman.....	Pillsbury & Curtis.	William J. Filbert.....	Pittsburgh S. S. Co.
Tionesta.....	Great Lakes Transit Corp.	William J. Olcott.....	Do.
Tivives.....	United Fruit S. S. Corp.	William K. Field.....	Reiss S. S. Co.
T. J. Williams.....	Standard Shipping Co.	William Livingstone.....	Columbia S. S. Co.
		William McLauchlan.....	Interlake S. S. Co.
		William Nelson.....	Paisley S. S. Co.
		William P. Cowan.....	Standard Oil Co. of Indiana.
		William P. Palmer.....	Pittsburgh S. S. Co.

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

Vessel	Owner	Vessel	Owner
William P. Snyder, jr.	Shenango Furnace Co.	Worrell Clarkson	Kinsman Transit Co.
William R. Linn	Pittsburgh S. S. Co.	W. S. Miller	Standard Oil Co. of California.
William T. Roberts	American S. S. Co.	W. S. Rheem	Do.
Willis L. King	Interstate S. S. Co.	Wyandotte	Wyandotte Transpn. Co.
Willkeno	William S. S. Corp.	Yale	Los Angeles S. S. Co.
Willpolo	Do.	Yankee Arrow	Standard Transpn. Co.
Willzipo	Do.	Yarmouth	Nova Scotia S. S. Corp.
Wind Rush	Shepard S. S. Co.	Yorba Linda	Standard Transpn. Co.
W. J. Hanna	Standard Shipping Co.	Yorkmar	Calmar S. S. Corp.
W. L. Steed	Pan-American Petroleum & Transp. Co.	Yosemite	Fontana S. S. Co.
Wm. Boyce Thompson	Sinclair Nav. Co.	Youngstown	Interlake S. S. Co.
Wm. Fitch	Jenkins S. S. Co.	Yukon	Alaska S. S. Co.
Wm. G. Warden	Standard Shipping Co.	Zacapa	United Fruit S. S. Corp.
Wm. Rockefeller	Do.	Zenith City	Pittsburgh S. S. Co.

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

Vessel	Owner	Vessel	Owner
Active.....	U. S. Coast Guard.	Champlin.....	U. S. Navy.
Acushnet.....	Do.	Chandler.....	Do.
Agassiz.....	Do.	Chase.....	Do.
Alert.....	Do.	Chateau Thierry.....	U. S. Army.
Algonquin.....	Do.	Chelan.....	U. S. Coast Guard.
Amaranth.....	Department of Com- merce, Bureau of Light- houses.	Chew.....	U. S. Navy.
Ammen.....	U. S. Coast Guard.	Childs.....	Do.
Anemone.....	Department of Com- merce, Bureau of Light- houses.	Cincinnati.....	Do.
Antietam.....	U. S. Coast Guard.	Claxton.....	Do.
Arizona.....	U. S. Navy.	Clemson.....	Do.
Arkansas.....	Do.	Coghan.....	Do.
Aroostock.....	Do.	Cole.....	Do.
Aulick.....	Do.	Colhoun.....	Do.
Ausburne, Charles.....	Do.	Colorado.....	Do.
Aylwin.....	Do.	Concord.....	Do.
Babbitt.....	Do.	Connor.....	Do.
Badger.....	Do.	Converse.....	Do.
Badger, George E.....	Do.	Conyngham.....	U. S. Coast Guard.
Bagley.....	Do.	Corry.....	U. S. Navy.
Bailey.....	Do.	Cowell.....	Do.
Bainbridge.....	Do.	Crane.....	Do.
Balch.....	Do.	Craven.....	Do.
Ballard.....	Do.	Crawford.....	U. S. Coast Guard.
Baltimore.....	Do.	Crocus.....	Department of Com- merce, Bureau of Light- houses.
Bancroft.....	Do.	Crosby.....	U. S. Navy.
Barker.....	Do.	Cumberland.....	U. S. Army.
Barnes, Robert L.....	Do.	Cummings.....	U. S. Coast Guard.
Barnett.....	Do.	Cushing.....	U. S. Navy.
Barney.....	Do.	Cuyahoga.....	U. S. Coast Guard.
Barry.....	Do.	Cypress.....	Department of Com- merce, Bureau of Light- houses.
Beale.....	U. S. Coast Guard.	Dale.....	U. S. Navy.
Belknap.....	U. S. Navy.	Dallas.....	Do.
Bell.....	Do.	Davis.....	U. S. Coast Guard.
Benham.....	Do.	Decatur.....	U. S. Navy.
Bernadou.....	Do.	Dellwood.....	U. S. Army.
Biddle.....	Do.	Dent.....	U. S. Navy.
Billingsley.....	Do.	Detroit.....	Do.
Bonham.....	U. S. Coast Guard.	Dickerson.....	Do.
Borie.....	U. S. Navy.	Diligence.....	U. S. Coast Guard.
Boutwell.....	U. S. Coast Guard.	Discoverer.....	Department of Com- merce, Coast and Geo- detic Survey.
Boxer.....	Department of the In- terior, Bureau of Educa- tion.	Dix.....	U. S. Coast Guard.
Branch.....	Do.	Dorsey.....	U. S. Navy.
Breck.....	Do.	Downes.....	U. S. Coast Guard.
Breckinridge.....	Do.	Drayton.....	Do.
Breese.....	Do.	Eagle.....	U. S. Coast Guard.
Brooks.....	Do.	Edsall.....	U. S. Navy.
Broome.....	Do.	Edwards.....	Do.
Bruce.....	Do.	Edwards, John D.....	Do.
Buchanan.....	Do.	Elliot.....	Do.
Bulmer.....	Do.	Ellis.....	Do.
Burns.....	Do.	Eriesson.....	U. S. Coast Guard.
Burnes, John Francis.....	Do.	Evans.....	U. S. Navy.
Burrows.....	U. S. Coast Guard.	Ewing.....	U. S. Coast Guard.
Bush.....	U. S. Navy.	Fairfax.....	U. S. Navy.
Cahokia.....	U. S. Coast Guard.	Fanning.....	U. S. Coast Guard.
Cahoone.....	Do.	Farquhar.....	U. S. Navy.
Caldwell.....	U. S. Navy.	Farragut.....	Do.
California.....	Do.	Faunce.....	U. S. Coast Guard.
Cambrai.....	U. S. Army.	Florida.....	U. S. Navy.
Carrabasset.....	U. S. Navy.	Flusser.....	Do.
Cartigan.....	U. S. Coast Guard.	Foote.....	Do.
Case.....	U. S. Navy.	Ford, John D.....	Do.
Cassin.....	U. S. Coast Guard.	Forward.....	U. S. Coast Guard.
Cedar.....	Department of Com- merce, Bureau of Light- houses.	Fox.....	U. S. Navy.
Champlain.....	U. S. Coast Guard.	Frederick Lee.....	U. S. Coast Guard.
		Gamble.....	U. S. Navy.
		General Greene.....	U. S. Coast Guard.

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

Vessel	Owner	Vessel	Owner
General Royal T. Frank.....	U. S. Army.	Laub.....	U. S. Navy.
Gillis.....	U. S. Navy.	La Vallette.....	Do.
Gilmer.....	Do.	Lawrence.....	Do.
Goff.....	Do.	Lea.....	Do.
Goldsborough.....	Do.	Leary.....	Do.
Grant.....	U. S. Army.	Legare.....	U. S. Coast Guard.
Greene.....	U. S. Navy.	Lexington.....	U. S. Navy.
Greer.....	Do.	Litchfield.....	Do.
Gregory.....	Do.	Little.....	Do.
Gresham.....	U. S. Coast Guard.	Long.....	Do.
Gridley.....	U. S. Navy.	Lotus.....	Department of Commerce, Bureau of Lighthouses.
Guide.....	Department of Commerce, Coast and Geodetic Survey.	Luce.....	U. S. Navy.
Gwin.....	U. S. Navy.	Ludlow.....	Do.
Haida.....	U. S. Coast Guard.	Lupine.....	Department of Commerce, Bureau of Lighthouses.
Hale.....	U. S. Navy.	Lydonia.....	Department of Commerce, Coast and Geodetic Survey.
Hamilton.....	Do.	Mackenzie.....	U. S. Navy.
Haraden.....	Do.	MacLeish.....	Do.
Harding.....	Do.	Maddox.....	Do.
Harriet Lane.....	U. S. Coast Guard.	Magnolia.....	Department of Commerce, Bureau of Lighthouses.
Hart.....	U. S. Navy.	Mahan.....	U. S. Navy.
Hatfield.....	Do.	Mangrove.....	Department of Commerce, Bureau of Lighthouses.
Hazelwood.....	Do.	Manley.....	U. S. Navy.
Henley.....	U. S. Coast Guard.	Manning.....	U. S. Coast Guard.
Henshaw.....	U. S. Navy.	Manzanita.....	Department of Commerce, Bureau of Lighthouses.
Herbert.....	Do.	Marblehead.....	U. S. Navy.
Herdon.....	Do.	Marcus.....	Do.
Hibiscus.....	Department of Commerce, Bureau of Lighthouses.	Margaret.....	Department of Interior, U. S. Lake Survey.
Hogan.....	U. S. Navy.	Marigold.....	Department of Commerce, Bureau of Lighthouses.
Hopewell.....	Do.	Marion.....	U. S. Coast Guard.
Hopkins.....	Do.	Maryland.....	U. S. Navy.
Hovey.....	Do.	Mascoutin.....	U. S. Coast Guard.
Howard.....	Do.	Mason.....	U. S. Navy.
Hulbert.....	Do.	Mauzy.....	Do.
Hull.....	Do.	Mayrant.....	Do.
Humphreys.....	Do.	McCall.....	U. S. Coast Guard.
Hunt.....	Do.	McCalla.....	U. S. Navy.
Hyacinth.....	Department of Commerce, Bureau of Lighthouses.	McCawley.....	Do.
Idaho.....	U. S. Navy.	McCook.....	Do.
Ilex.....	Department of Commerce, Bureau of Lighthouses.	McCormick.....	Do.
Ingraham.....	U. S. Navy.	McDermut.....	Do.
Ingram, Osmund.....	Do.	McDougal.....	U. S. Coast Guard.
Isherwood.....	Do.	McFarland.....	U. S. Navy.
Israel.....	Do.	McKean.....	Do.
Ivy.....	Department of Commerce, Bureau of Lighthouses.	McKee.....	Do.
Jackson.....	U. S. Coast Guard.	McLanahan.....	Do.
James, Reuber.....	U. S. Navy.	McLane.....	U. S. Coast Guard.
Jarvis.....	Do.	Meado.....	U. S. Navy.
Jenkins.....	Do.	Meigs.....	U. S. Army.
Jones, Jacob.....	Do.	Melvin.....	U. S. Navy.
Jones, Paul.....	Do.	Memphis.....	Do.
Jones, William.....	Do.	Mendota.....	U. S. Coast Guard.
Jouett.....	U. S. Coast Guard.	Meredith.....	U. S. Navy.
Kane.....	U. S. Navy.	Mervine.....	Do.
Kennedy.....	Do.	Meyer.....	Do.
Kennison.....	Do.	Milwaukee.....	Do.
Kickapoo.....	U. S. Coast Guard.	Mississippi.....	Do.
Kidder.....	U. S. Navy.	Modoc.....	U. S. Coast Guard.
Kilty.....	Do.	Mojave.....	Do.
Kimball.....	U. S. Coast Guard.	Monaghan.....	Do.
Kimberly.....	U. S. Navy.	Montgomery.....	U. S. Navy.
King.....	Do.	Do.....	Do.
Kukui.....	Department of Commerce, Bureau of Lighthouses.	Moody.....	U. S. Coast Guard.
Lamberton.....	U. S. Navy.	Morris.....	U. S. Navy.
Lamson.....	Do.	Do.....	Do.
Lansdale.....	Do.	Mugford.....	U. S. Coast Guard.
Lardner.....	Do.	Mullany.....	U. S. Navy.
Larkspur.....	Department of Commerce, Bureau of Lighthouses.	Murray.....	Do.

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

Vessel	Owner	Vessel	Owner
Nemaha	U. S. Coast Guard.	Shaw	U. S. Coast Guard.
Nevada	U. S. Navy.	Shawnee	Do.
New Mexico	Do.	Shirk	U. S. Navy.
New York	Do.	Sicard	Do.
Nicholson	Do.	Sigourney	Do.
Noa	Do.	Simpson	Do.
Northland	U. S. Coast Guard.	Sinclair	Do.
O'Bannon	U. S. Navy.	Sloat	Do.
O'Brien	Do.	Snohomish	U. S. Coast Guard.
Oklahoma	Do.	Somers	U. S. Navy.
Omaha	Do.	Somme	U. S. Army.
Orchid	Department of Commerce, Bureau of Light-houses.	Southard	U. S. Navy.
Osborne	U. S. Navy.	Speedwell	Department of Commerce, Lighthouse Service.
Ossipee	U. S. Coast Guard.	Sproston	U. S. Navy.
Overton	U. S. Navy.	Spruce	Department of Commerce, Bureau of Light-houses.
Palmer	Do.	Stansbury	U. S. Navy.
Parker	Do.	Sterrett	Do.
Parrott	Do.	Stevens	Do.
Patriot	U. S. Coast Guard.	Stewart	Do.
Paterson	Do.	St. Mihiel	U. S. Army.
Paulding	Do.	Stockton	U. S. Navy.
Paulding, James K.	U. S. Navy.	Stoddart	Do.
Peary	Do.	Stribling	Do.
Pennsylvania	Do.	Stringham	Do.
Pensacola	Do.	Sturtevant	Do.
Pequot	U. S. Coast Guard.	Sumac	Department of Commerce, Bureau of Light-houses.
Percival	U. S. Navy.	Sumner	U. S. Navy.
Perry	Do.	Swasey	Do.
Philip	Do.	Tahoe	U. S. Coast Guard.
Pillsbury	Do.	Talbot	U. S. Navy.
Pioneer	Department of Commerce, Coast and Geodetic Survey.	Talbot, J. Fred	Do.
Pittsburgh	U. S. Navy.	Tallapoosa	U. S. Coast Guard.
Pontchartrain	U. S. Coast Guard.	Tamara	Do.
Pope	U. S. Navy.	Tampa	Do.
Porter	U. S. Coast Guard	Tarbell	U. S. Navy.
Preble	U. S. Navy.	Tattnall	Do.
Preston	Do.	Taylor	Do.
Preston, William B.	Do.	Tennessee	Do.
Fruitt	Do.	Terry	U. S. Coast Guard.
Pulaski	U. S. Coast Guard	Texas	U. S. Navy.
Putnam	U. S. Navy.	Thatcher	Do.
Radford	Do.	Thomas	Do.
Raleigh	Do.	Do	U. S. Army.
Ramsay	Do.	Thompson	U. S. Navy.
Rathburne	Do.	Thompson, Sara	Do.
Redwing	U. S. Coast Guard.	Thompson, Smith	Do.
Reid	U. S. Navy.	Thornton	Do.
Reliance	U. S. Coast Guard.	Tiger	U. S. Coast Guard.
Renshaw	U. S. Navy.	Tillman	U. S. Navy.
Richmond	Do.	Toucey	Do.
Ringgold	Do.	Tracy	Do.
Rizal	Do.	Travis	U. S. Coast Guard.
Robinson	Do.	Trenton	U. S. Navy.
Rochester	Do.	Trevor	Do.
Rodgers	Do.	Trippe	U. S. Coast Guard.
Roe	U. S. Coast Guard.	Truxton	U. S. Navy.
Roper	U. S. Navy.	Tucker	U. S. Coast Guard.
Rowan	Do.	Tulip	Department of Commerce, Bureau of Light-houses.
Rush	U. S. Coast Guard.	Turner	U. S. Navy.
Sacramento	U. S. Navy.	Tuscarora	U. S. Coast Guard.
Salt Lake City	Do.	Twiggs	U. S. Navy.
Sampson	Do.	Unalga	U. S. Coast Guard.
Sands	Do.	Upshur	U. S. Navy.
Saratoga	Do.	Upshur, Abel P.	Do.
Satterlee	Do.	Vega	Do.
Saukee	U. S. Coast Guard.	Vigilant	U. S. Coast Guard.
Schenck	U. S. Navy.	Wadsworth	U. S. Navy.
Schley	Do.	Wainwright	U. S. Coast Guard.
Seattle	Do.	Walke	U. S. Navy.
Selfridge	Do.	Walker	Do.
Seminole	U. S. Coast Guard.	Ward	Do.
Semmes	U. S. Navy.	Ward, Aaron	Do.
Seneca	U. S. Coast Guard.	Warrington	Do.
Sequoia	Department of Commerce, Bureau of Light-houses.		
Sharkey	U. S. Navy.		

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

Vessel	Owner	Vessel	Owner
Wasmuth.....	Do.	Wood.....	U. S. Navy
Waters.....	Do.	Wood, Welborn C.....	Do.
Welles.....	Do.	Woodbury.....	U. S. Coast Guard.
West Virginia.....	Do.	Worden.....	U. S. Navy.
Whipple.....	Do.	Wyoming.....	Do.
Wilkes.....	U. S. Coast Guard.	Yamacraw.....	U. S. Coast Guard.
Williams.....	U. S. Navy.	Yarborough.....	U. S. Navy.
Williamson.....	Do.	Yarnall.....	Do.
Wilmington.....	Do.	Yeaton.....	U. S. Coast Guard.
Winslow.....	Do.	Zane.....	U. S. Navy.

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 station (clockwise). The arc of calibration 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:

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

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

7. Headquarters, Exchange Building, Seattle, Wash. Branch office in Post Office Building, Portland, Oreg.: 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 offices in Federal Building, Kansas City, Mo., and in Post Office Building, Denver, Colo. 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.



