

RADIO SERVICE BULLETIN

ISSUED MONTHLY BY BUREAU OF NAVIGATION, (DEPARTMENT OF COMMERCE)

Washington, April 1, 1920—No. 36

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DEPARTMENT OF COMMERCE,
BUREAU OF NAVIGATION,
Washington, August 1, 1919.

To collectors of customs, radio inspectors, and others concerned:

This publication, which was discontinued during the war, is issued monthly by the Bureau of Navigation, Department of Commerce, and distributed to the United States officers engaged in or concerned with the enforcement of the radio laws for their guidance and instruction, and to those concerned with the operation of Government and commercial radio stations for their information.

The Radio Service Bulletin supersedes the quarterly supplements to the List of Radio Stations of the United States and contains information concerning Government, commercial, and special stations only.

The Bulletin contains tables of new stations, alterations, and corrections under headings, so that the List of Radio Stations of the United States and the List of Radiotelegraph Stations published by the international bureau at Berne, may be brought up to date. Additions, alterations, and corrections should be entered in these two publications promptly on receipt of the Bulletin.

Amendments to or changes in the Radio Laws and Regulations of the United States (edition of Aug. 15, 1919) are printed in this Bulletin in such a manner that they may be clipped and pasted in their proper places in that publication.

Items of general interest concerning the enforcement of the radio laws are printed in the Bulletin from time to time, as occasion warrants.

E. T. CHAMBERLAIN,
Commissioner of Navigation.

Approved:
WILLIAM C. REDFIELD,
Secretary of Commerce.

NEW STATIONS.

COMMERCIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations published by the Berne Bureau.]

Station.	Call signal.	Wave lengths.	Service.	Hours.	Station controlled by—
Butte, Mont.	KMN	550, 1700	PR	X	Great Falls Power Co.
Great Falls, Mont. (Rainbow)	KI Q	550, 1700	PR	X	Do.
Metha Nelson ¹	KMP	250, 300, 525, 600	PR	X	Alaska Packers' Association.
Nakat Inlet, Alaska.....	KDW	300, 525, 600 1700, 2000	PR	X	G. W. Hume & Co.
Thompson Falls, Mont.	KLL	550, 1700	PR	X	Thompson Falls Power Co.

¹ Permanently moored vessel in Bristol Bay, Alaska.

COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Name of vessel.	Call signal.	Rates.		Service.	Hours.	Owner of vessel.	Station controlled by
		North and South American service.	Trans-oceanic rates.				
		Cents.	Cents.				
Angeles.....	KUJB	4	4	PG	X	U. S. Shipping Board..	R. C. of A.
Anthracite Bridge.....	KUKG	4	4	PG	X	do.	
Aragon.....	KUKB			PG	X	The Aragon (Inc.)	
Ario.....	KULM			PG	X	Standard Transportation Co.	
Arizapa.....	KULN	4	4	PG	X	U. S. Shipping Board..	
Atlantic Sun.....	KUMS			PG	X	Sun Oil Co.	
Avalon.....	WFH			PG	X	William Wrigley, jr....	Do.
Baddacock.....	KUJD	4	4	PG	X	U. S. Shipping Board..	
Bayport.....	KUJC	4	4	PG	X	do.	
Blue Triangle.....	KUGS	4	4	PG	X	do.	I. W. T. Co.
Chickamauga.....	KULC	4	4	PG	X	do.	R. C. of A.
City of Joliet.....	KUJR	4	4	PG	X	do.	
Collingsworth.....	KUKX	4	4	PG	X	do.	
Coltraps.....	KUMR	4	4	PG	X	do.	
Comerant.....	KUMQ	4	4	PG	X	do.	
Commack.....	KULT	4	4	PG	X	do.	
Conejos.....	KUKT	4	4	PG	X	do.	
Conewago.....	KISB	4	4	PG	X	do.	Do.
Conshohocken.....	KUGV	4	4	PG	X	do.	Do.
Coot.....	KUJN			PG	X	East Coast Fisheries Co.	
Copan.....	KUMP			PG		Cuyamel Fruit Co.....	
Darien.....	KULG			PG		Panama R. R. Co.	
Donald McKay.....	KULL	4	4	PG	N	U. S. Shipping Board..	S. O. R. S.
Dunsyre.....	KUMF			PG		Robert Dollar Co.....	
East Chicago.....	KUKD	4	4	PG	X	U. S. Shipping Board..	
Eastern Belle.....	KUJT	4	4	PG	X	do.	
Eastern Crag.....	KUJV	4	4	PG	X	do.	I. W. T. Co.
Eastern Merchant.....	KUKS	4	4	PG	X	do.	R. C. of A.
Eastern Pilot.....	KULJ	4	4	PG	X	do.	Do.
Eastern Trader.....	KULK	4	4	PG	X	do.	I. W. T. Co.
Ethan Allen.....	KUJQ	4	4	PG	X	do.	S. O. R. S.
Fishkill.....	KULF	4	4	PG	N	do.	
Fort Armstrong.....	KUKF	4	4	PG	X	do.	
Freeport Sulphur No. 5.	KUMK			PG		Freeport Sulphur Transportation Co.	R. C. of A.
Grebe.....	KUMJ			PG	X	East Coast Fisheries Co.	
Havilah.....	KUJK	4	4	PG	X	U. S. Shipping Board..	I. W. T. Co.
Home.....	KUMG			PG		Pacific Mail S. S. Co...	
Hutchinson.....	KUJP	4	4	PG	X	U. S. Shipping Board..	R. C. of A.
John F. Penrose.....	KUKZ			PG		National Oil Co.	

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COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—continued.

Name of vessel.	Call signal.	Rates.		Service.	Hours.	Owner of vessel.	Station controlled by—
		North and South American service.	Trans-oceanic service.				
		Cents.	Cents.				
Jomar.....	KUGT	4	4	PG	X	U. S. Shipping Board..	R. C. of A.
Kerbonkson.....	KUJF	4	4	PG	N	do.	Do.
Lake Galisteo.....	KUGL	4	4	PG	X	do.	
Lake Ganado.....	KUMB	4	4	PG	X	do.	
Lake Geyser.....	KULD	4	4	PG	X	do.	
Lake Harestl.....	KUGN	4	4	PG	X	do.	
Latham.....	KUKR	4	4	PG		do.	
Liberty Bell.....	KUJX	4	4	PG	X	do.	
Louise.....	KUKN			PG	X	E. D. Burge..	Owner of ves- sel.
Lyndonia.....	KULZ			PG	X	C. H. K. Curtis.....	
Maddequet.....	KUGZ	4	4	PG	X	U. S. Shipping Board..	
Mason City.....	KUGX	4	4	PG	X	do.	S. O. R. S.
Mohinkis.....	KUKP	4	4	PG		do.	I. W. T. Co.
Noddle Island.....	KUKK	4	4	PG	X	do.	
Oklahoma City.....	KUML	4	4	PG	X	do.	
Osprey.....	KUJN			PG	X	East Coast Fisheries Co.	
Otho.....	KULK	4	4	PG		U. S. Shipping Board..	R. C. of A.
Outagamie.....	KULS	4	4	PG	X	do.	
Ozmo.....	KUJL	4	4	PG		Northern Commercial Co.	Do.
Pinellas.....	KULB	4	4	PG	X	U. S. Shipping Board..	
Pittsburgh Bridge.....	KUKL	4	4	PG	X	do.	
Portola Plumas.....	KUMN	4	4	PG		do.	I. W. T. Co.
Pyles.....	KULQ	4	4	PG	X	do.	
Quabbin.....	KUJZ	4	4	PG		do.	R. C. of A.
Ripon.....	KUGM	4	4	PG	X	do.	
San Juan.....	KULV			PG		Libby, McNeil & Lib- by.	
Schnylkill.....	KUKC	4	4	PG	X	U. S. Shipping Board..	
Selma.....	KUKQ	4	4	PG		do.	I. W. T. Co.
Seminole.....	KUGP	4	4	PG		do.	
Sioux City.....	KUGK	4	4	PG	X	do.	
Star of Holland.....	KUGQ	4	4	PG	X	Alaska Packers' Assoca- tion.	R. C. of A.
Staten Island.....	KUMD	4	4	PG	X	U. S. Shipping Board..	
Summerleaf.....	KUGR	4	4	PG	X	do.	S. O. R. S.
Tancarville.....	KUKM			PG		Philippine Vegetable Oil Co.	
Thrasher.....	KUJG			PG	X	Olaf Swenson.....	R. C. of A.
Toopi.....	KULP	4	4	PG	X	U. S. Shipping Board..	
Utacarbon.....	KUMC	4	4	PG		do.	Do.
Vallonia.....	KULR	4	4	PG	X	do.	
West Calera.....	KUMM	4	4	PG	X	do.	S. O. R. S.
West Hixton.....	KUKV	4	4	PG	X	do.	
West Jappa.....	KUKJ	4	4	PG		do.	I. W. T. Co.
Winston-Salem.....	KUIS	4	4	PG		do.	
Woudrichem.....	KGIU			PG		Universal Transporta- tion Co.	Do.

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

[b=ship station; c=land station.]

Call signal.	Name.	Call signal.	Name.		
KDW	Nakat Inlet, Alaska.....	c	KUKM	Tancarville.....	b
KGIU	Woudrichem.....	b	KUKN	Louise.....	b
KISB	Conewago.....	b	KUKP	Mohinkis.....	b
KLL	Thompson Falls, Mont.....	c	KUKQ	Selma.....	b
KLQ	Great Falls, Mont. (Rainbow).....	c	KUKR	Latham.....	b
KMN	Butte, Mont.....	c	KUKS	Eastern Merchant.....	b
KMP	Metha Nelson ¹	c	KUKT	Conojos.....	b
KUGK	Sioux City.....	b	KUKV	West Hixton.....	b
KUGL	Lake Galisteo.....	b	KUKX	Collingsworth.....	b
KUCM	Ripon.....	b	KUKZ	John F. Penrose.....	b
KUGN	Lake Haresti.....	b	KULB	Pinellas.....	b
KUGP	Seminole.....	b	KULC	Chickamauga.....	b
KUGQ	Star of Holland.....	b	KULD	Lake Geysier.....	b
KUGR	Summerleaf.....	b	KULF	Fishkill.....	b
KUGS	Blue Triangle.....	b	KULG	Darien.....	b
KUGT	Jomar.....	b	KULJ	Eastern Pilot.....	b
KUGV	Conshohocken.....	b	KULK	Eastern Trader.....	b
KUGX	Mason City.....	b	KULL	Donald McKay.....	b
KUGZ	Maddequet.....	b	KULM	Ario.....	b
KUJB	Angeles.....	b	KULN	Arizona.....	b
KUJC	Bayport.....	b	KULP	Toopi.....	b
KUJD	Baddacock.....	b	KULQ	Pylos.....	b
KUJF	Kerhonkson.....	b	KULR	Vallonia.....	b
KUJG	Thrasher.....	b	KULS	Outagamie.....	b
KUJH	Havilah.....	b	KULT	Commack.....	b
KUJL	Ozmo.....	b	KULV	San Juan.....	b
KUJM	Coot.....	b	KULX	Otho.....	b
KUJN	Osprey.....	b	KULZ	Lyndonia.....	b
KUJP	Hutchinson.....	b	KUMB	Lake Ganado.....	b
KUJQ	Ethan Allen.....	b	KUMC	Utacarbon.....	b
KUJR	City of Joliet.....	b	KUMD	Staten Island.....	b
KUJS	Winston-Salem.....	b	KUMF	Dunsyro.....	b
KUJT	Eastern Belle.....	b	KUMG	Homer.....	b
KUJV	Eastern Crag.....	b	KUMH	Grebe.....	b
KUJX	Liberty Bell.....	b	KUMK	Freeport Sulphur No. 5.....	b
KUJZ	Quabbin.....	b	KUML	Oklahoma City.....	b
KUKB	Aragon.....	b	KUMM	West Calera.....	b
KUKC	Shuylkill Bridge.....	b	KUMN	Portola Plumas.....	b
KUKD	East Chicago.....	b	KUMP	Copan.....	b
KUKF	Fort Armstrong.....	b	KUMQ	Comerant.....	b
KUKG	Anthracite Bridge.....	b	KUMR	Colthrops.....	b
KUKH	West Jappa.....	b	KUMS	Atlantic Sun.....	b
KUKI	Noddie Island.....	b	WFH	Avalon.....	b
KUKL	Pittsburgh Bridge.....	b			

¹ Permanently moored vessel in Bristol Bay, Alaska.

GOVERNMENT LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Station.	Call signal.	Station controlled by—
Grand Island, Mich.....	NSY	U. S. Navy.
Vladivostok, Russia.....	NPH	Do.

GOVERNMENT SHIP STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919.]

Name of ship.	Call signal.	Name of ship.	Call signal.
Cyan.....	NIFV	Osborne.....	NUQC
Harbor Tug No. 61.....	NUMX	Oveson.....	NIZD
Harbor Tug No. 74.....	NEKP	Pope.....	NUQB
Indiana.....	NHQ	Pruitt.....	NUPV
MacLeish.....	NUPT	Simpson.....	NUPX
McCormick.....	NUPZ	Torpedo Test Barge No. 1.....	NIFR
Mount Vernon.....	WUAA	Torpedo Test Barge No. 2.....	NIFS

GOVERNMENT LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

[b=ship station; c=land station.]

Call signal.	Name of station.	Call signal.	Name of station.
NHQ	Indiana..... b	NUMX	Harbor Tug No. 61..... b
NPH	Vladivostok, Russia..... c	NUPT	MacLeish..... b
NSY	Grand Island, Mich..... c	NUPV	Pruitt..... b
NEKP	Harbor Tug No. 74..... b	NUPX	Simpson..... b
NIFR	Torpedo Test Barge No. 1..... b	NUPZ	McCormick..... b
NIFS	Torpedo Test Barge No. 2..... b	NUQB	Pope..... b
NIFV	Cyan..... b	NUQC	Osborne..... b
NIZD	Oveson..... b	WUAA	Mount Vernon..... b

SPECIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919, only.]

Station.	Call signal.	Station controlled by—
Baltimore, Md.....	3XG	Edward O. Hurlburt.
Buffalo, N. Y.....	8ZM	Cyrus H. Fraser.
College Station, Tex.....	5YF	Agricultural & Mechanical College of Texas
Columbus, Ohio.....	8XI	Ohio State University.
Eugene, Oreg.....	7YB	University of Oregon.
Hanover, N. H.....	1YB	Dartmouth College.
House, Tex.....	5ZW	Donald H. Graham.
Houston, Tex.....	5ZV	Hallet E. Worthington.
Houston, Tex.....	5ZX	James L. Autry, jr.
Los Angeles, Calif.....	6XD	Western Radio Electric Co.
Minneapolis, Minn.....	9XI	University of Minnesota.
Mulga, Ala.....	5ZY	Thos. D. Sewell.
Muncie, Ind.....	9YR	Muncie Technical High School.
New York, N. Y.....	2XZ	Fordham University.
Philadelphia, Pa.....	3YC	North East High School.
Pittsburgh, Pa.....	8XH	Parker E. Wiggin.
Rochester, N. Y.....	8ZK	Alexander M. Lindsay, jr.
San Diego, Calif.....	6XZ	R. O. Shelton, M. D.
Savannah, Ga.....	3YB	Knights of Columbus.
Seattle, Wash.....	7YC	Young Men's Christian Association.
Seattle, Wash.....	7YD	Knights of Columbus.
Toledo, Ohio.....	8ZI	Adelbert J. Gogel.
Valley City, N. Dak.....	9ZX	Russell H. Pray.
Washington, D. C.....	3YA	Loomis Radio School.
Washington, D. C.....	3ZB	A. B. Brown.
Woodmere, N. Y.....	2XH	Cutting & Washington Radio Corporation.

SPECIAL LAND STATIONS GROUPED BY DISTRICTS.

Call signal.	District and station.	Call signal.	District and station.
1YB	First district: Hanover, N. H.	6XD	Sixth district: Los Angeles, Calif.
2XH	Second district: Woodmere, N. Y.	6XZ	San Diego, Calif.
2XZ	New York, N. Y.	7YB	Seventh district: Eugene, Oreg.
3XG	Third district: Baltimore, Md.	7YC	Seattle, Wash.
3YA	Washington, D. C.	7YD	Seattle, Wash.
3YB	Savannah, Ga.	8XH	Eighth district: Pittsburgh, Pa.
3YC	Philadelphia, Pa.	8XI	Columbus, Ohio.
3ZB	Washington, D. C.	8ZI	Toledo, Ohio.
5YF	Fifth district: College Station, Tex.	8ZK	Rochester, N. Y.
5ZV	Houston, Tex.	8ZM	Buffalo, N. Y.
5ZW	House, Tex.	9XI	Ninth district: Minneapolis, Minn.
5ZX	Houston, Tex.	9YR	Muncie, Ind.
5ZY	Mulga, Ala.	9ZX	Valley City, N. Dak.

ABBREVIATIONS.

The necessary corrections to the List of Radio Stations of the United States and to the International List of Radiotelegraph Stations, appearing in this Bulletin under the heading "Alterations and corrections," are published after the stations affected in the following order:

- Name =Name of station.
 G. loc. =Geographical location: O=west longitude, N=north latitude, S=south latitude.
 Call =Call letters assigned.
 System =Radio system used and sparks per second.
 Range =Normal range in nautical miles.
 W. L. =Wave lengths assigned: Normal wave lengths in italics.
 Service =Nature of service maintained:
 PG=General public.
 PR=Limited public.
 P =Private.
 O =Government business exclusively.
 Hours =Hours of operation:
 N =Continuous service.
 X =No regular hours.
 m =a. m. (12m=midday).
 s =p. m. (12s=midnight).
 Rates =Ship or coast charges, in cents: c=cents. (The rates in the international list are given in francs and centimes. For approximate purposes, 1 franc equals 20 cents and 5 centimes equal 1 cent.)
 I. W. T. Co. =Independent Wireless Telegraph Co.
 R. C. of A. =Radio Corporation of America.
 S. O. R. S. =Ship Owners Radio Service.

ALTERATIONS AND CORRECTIONS.

COMMERCIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations, published by the Berne bureau.]

BOLINAS, CALIF.—Rates, San Francisco to Hawaii 25 c. per word; night letter \$1 for first 13 words (which includes the necessary prefix); week-end letter rate \$1.50 for first 25 words (which includes the necessary prefix). San Francisco to Japan via Hawaii 80 c. per word day rate, 40 c. per word night rate.

- BROOKLYN, N. Y.—Hours, N; rates, coastwise and transoceanic ships 6 c. per word; ships plying between ports within 200 miles of New York, N. Y., 3 c. per word.
- JAMAICA, N. Y.—*Read* Richmond Hill, Jamaica, N. Y.; rates, coastwise and transoceanic ships 6 c. per word.
- KAIHUKU, HAWAII.—Rates, Hawaii to San Francisco 25 c. per word; Hawaii to Japan 64 c. per word day rate, 32 c. per word night rate.
- KVICHAVAK, ALASKA.—*Read* Kvichak, Alaska.
- LOCKANOK, ALASKA.—Operated and controlled by Libby, McNeil & Libby.
- MARION, MASS.—Rates, Marion, Mass., to Stavanger, Norway, 24 c. per word.
- NEW BRUNSWICK, N. J.—Rates, New York, N. Y., to Great Britain 17 c. per word.
- NEW LONDON, CONN.—Hours, N; rates, coastwise ships 6 c. per word, transoceanic ships 12 c. per word, ships plying between ports within 200 miles of New York, N. Y. 3 c. per word.
- NEW YORK, N. Y.—Service, PG; hours, X; rates, coastwise and transoceanic ships 6 c. per word; station operated and controlled by E. J. Simon.

COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations, published by the Berne bureau.]

- BOOBYALLA.—J. E. Chilberg owner of vessel.
- CLAUSEUS.—Station operated and controlled by R. C. of A.
- DAVENPORT.—J. O. Davenport owner of vessel.
- ERNY.—Name changed to Warszawa; Polish-American Navigation Corporation owner of vessel.
- FRANCIS L. SKINNER.—Oriental Navigation Co. owner of vessel.
- GARGOYLE.—Union Petroleum Steamship Co. owner of vessel.
- ICONIUM.—Hours, X; station operated and controlled by S. O. R. S.
- IDA.—Hours, X.
- J. L. LUCKENBACH.—Hours, X; rates, all services 4 c. per word.
- KERMANSIAH.—Kerr Navigation Corporation owner of vessel.
- KERMOOR.—Kerr Navigation Corporation owner of vessel.
- K. I. LUCKENBACH.—Edgar F. Luckenbach owner of vessel.
- OBACK.—*Read* Obak; station operated and controlled by S. O. R. S.
- ORIZABA.—New York and Cuba Mail S. S. Co. owner of vessel.
- RAINIER.—Station operated and controlled by owner of vessel.
- ROBIN ADAIR.—Robin Line Steamship Co. owner of vessel.
- SACHEM.—Pacific Mail Steamship Co. owner of vessel.
- SHERMAN.—Sherman Steamship Co. owner of vessel.
- SIERRA (KRW).—Station operated and controlled by owner of vessel.
- STEEL VOYAGER.—Station operated and controlled by Cutting and Washington Radio Corporation.
- STORM KING.—Rolph Navigation and Coal Co. owner of vessel.
- SUWANEE.—Name changed to Poznam; Polish-American Navigation Corporation owner of vessel.
- TRIUMPH.—Hours, X; station operated and controlled by I. W. T. Co.
- VITTORIE EMMANUELE III.—*Read* Vittorio Emmanuele III; station operated and controlled by R. C. of A.
- WATERBURY.—Name changed to Northern Star.
- WEST HARTS.—Hours, X; station operated and controlled by I. W. T. Co.
- WEST HIKAR.—*Read* West Hika; station operated and controlled by I. W. T. Co.
- WIDGEON.—Widgeon Co. owner of vessel.
- WM. HENRY WEBB.—Name changed to William H. Webb.
- XENIA.—Service, PG; hours, X; station operated and controlled by R. C. of A.

THE STATIONS OF THE FOLLOWING-NAMED VESSELS ARE OPERATED AND CONTROLLED BY THE RADIO CORPORATION OF AMERICA (FORMERLY MARCONI CO.):

Abron.	Cabrille.	Fairfield.
Absaroka.	Calispell.	Fasset.
Adway.	Calvert.	Fluor Spar.
Afalkey.	Cambridge (K1RR)	Folsom.
Afel.	Casper.	Fort Riley.
Afrania.	Castle Town.	Fort Scott.
Aiken.	Catawba.	Fort Seward.
Alanthas.	Cawker.	Fort Smith.
Alapaha.	Cedar Spring.	Fort Stevens.
Alderman.	Cerosco.	Fort Wayne.
Allices.	Chattanooga.	Fort Wright.
Alta.	Chautauqua.	Fourth Alabama.
Anthera.	Chebaulip.	Fresno.
Aowa.	Chimo.	
Appeles.	City of Sherman.	Garibaldi.
Archer.	Clairton.	Glen Ridge.
Argon.	Clarksburg.	Glorieta.
Armenia.	Clearwater.	Glymont.
Ascutney.	Cleopatra.	Glyndon.
Asotin.	Coconino.	
Asquam.	Cold Spring.	Hamlin.
Auburn.	Contoocook.	Haselhurst.
Aurora.	Coquina.	Hegira.
Awendaw.	Corapeak.	Hickman.
	Coronado.	Hico.
Baladan.	Corsicana.	Hugoton.
Baldrige.	Corson.	Huguenot.
Balcamp.	Council Bluffs.	Humrick.
Balliett.	Coupre.	
Bannack.	Courtois.	Ida.
Barkhamstead.	Covalt.	Innoko.
Barrenfark.	Covedale.	Intan.
Barrington.	Covena.	Invincible.
Battahatchee.	Coverun.	Issaquena.
Baxley.	Cowan.	
Bay Head.	Coweta.	J. C. Donnell.
Bayou Teche.	Cowiche.	Jeanette Skinner.
Beaumont.	Crabtree.	
Belding.	Craincreek.	Kasota.
Bellbuckle.	Crawl Keys.	Kenosha.
Belloit.	Cushnoc.	Kineo.
Benzonia.		Kisnop.
Berea.	Daca.	Klamath.
Berela.	Dallas.	Kokomo.
Bessemer.	Dancey.	
Bethnor.	Davidson County.	Lackawanna Valley.
Blakeley.	Derbyline.	Lake Allen.
Blue Eagle.	Dertona.	Lake Alvada.
Bockonoff.	Dirigo.	Lake Arthur.
Bonnafon.	Dungeness.	Lake Aurice.
Boston Bridge.		Lake Beacon.
Bosworth.	East Cape.	Lake Belnona.
Bottineau.	Eastern King.	Lake Cathoon.
Braddock.	Eastern Shore.	Lake Cayuga.
Brasher.	Eastern Star.	Lake Charlottesvile.
Bromela.	Edgehill.	Lake Copley.
Brompton.	Edgemont.	Lake Crystal.
Broncho.	Edgemoor.	Lake Delancey.
Brookhaven.	Edgewood.	Lake Desha.
Bugaya.	Eelbeck.	Lake Dunmore.
Burnside.	Eldena.	Lake Ellsbury.
Burnwell.	Elkridge.	Lake Elmdale.
Cabeza.	Everglades.	Lake Ennis.

Lake Farabee.	Lake Winthrop.	Tunica.
Lake Farlin.	Lake Yelverton.	Tyee.
Lake Farragut.	Lightburne.	Umatilla.
Lake Festinia.	Lone Star.	Waco.
Lake Fighting.	Lorain.	Walden.
Lake Flovilla.	Lordship Manor.	Wallingford.
Lake Folcroft.		Wallkill.
Lake Fondulac.	Mahanna.	Wanzu.
Lake Fontanet.	Mahaska.	Wasagya.
Lake Forsby.	Mahnet.	Watauga.
Lake Fossil.	Maiden Creek.	Watertown.
Lake Fostoria.	Manoa.	Waxahachie.
Lake Foxboro.	Mariners Harbor.	Wayucan.
Lake Frampton.	Marshfield.	West Boro.
Lake Franconia.	Mercer.	West Carnifax.
Lake Frazee.	Meriden.	West Cawthon.
Lake Frecks.	Milwaukee Bridge.	West Cayote.
Lake Freed.	Moccasin.	West Celina.
Lake Freezeout.	Moosabee.	West Cheswald.
Lake Frenchton.	Musketo.	West Cohas.
Lake Fresco.		Western Chief.
Lake Frugality.	Naiwa.	Western Cross.
Lake Frumet.	Neuse.	Westerner.
Lake Furlough.	New Windsor.	Western Hope.
Lake Gadsden.		Western King.
Lake Gardner.	Octorara.	Western Maid.
Lake Gaspar.	Olen.	West Erral.
Lake Geneva.	Opelika.	Westfield.
Lake Gera.	Orani.	West Grama.
Lake Gilpen.	Osakis.	West Grove.
Lake Gilta.	Ossining.	West Hembrie.
Lake Grainger.	Otsego.	West Humhaw.
Lake Grama.	Overbrook.	West Imboden.
Lake Grampian.		West Inskip.
Lake Gratis.	Pascagoula.	West Islay.
Lake Gravett.	Pawnee.	West Isleta.
Lake Gravity.	Phoenix.	West Ison.
Lake Gretna.	Phoenix Bridge.	West Keene.
Lake Harney.	Polar Sea.	West Kyska.
Lake Hemlock.	Polar Star.	Westmead.
Lake Inaha.	Polias.	Westmount.
Lakeland.	Pontchartrain.	West Nosska.
Lake Lasang.	Python.	West Point.
Lake Lida.		Westpool.
Lake Linden.	Romulus.	Westport.
Lake Louise.	Sacandaga.	West Quechee.
Lake Marion.	Saguache.	West Raritans.
Lake Markham.	Sahale.	West Shore.
Lake Mary.	Salmon.	West Vaca.
Lake Maurepas.	Sangamon.	Wheatland Montana.
Lake Medford.	Sapinero.	Wheaton.
Lake Narka.	Satartia.	Wilhelm Jepsen.
Lake Ontario.	Schenectady.	Winona County.
Lake Orange.	Schodak.	W. L. Steed.
Lake Otisco.	Seekonk.	W. M. Irish.
Lake Pearl.	Sharon.	Woodmansie.
Lake Pepin.	Shaume.	Woonsocket.
Lake Pewaukee.	Shooters Island.	W. S. Rheem.
Lake Sanford.	Shortsville.	Wynooche.
Lake Sapor.	Silverbrook.	Wytheville.
Lake Sebago.	Snug Harbor.	
Lakeshore.	Somerset.	
Lake Stirling.	St. Augustine.	Yadkin.
Lake Sunapee.	St. Johns County.	Yawah.
Lakeview.	Strathnaver.	Yellowstone.
Lake Weir.		York Harbor.
Lake Wilson.	Tampa.	Yosemite.
Lake Winona.	Texarkana.	Yukon.
	Tulsa.	Yuma.

THE STATIONS OF THE FOLLOWING-NAMED VESSELS ARE OPERATED AND CONTROLLED BY THE SHIP OWNERS RADIO SERVICE (INC.).

Abbeville.	Buckhannon.	Editor.
Aberdeen.	Buhisan.	Eldridge.
Accomac.	Bulana.	Elinor.
Acrema.	Butte.	Esopus.
Aculeo.	Butterfield.	
Agria.		Fame.
Aimwell.	Cabura.	Faraby.
Alabat.	Cadaretta.	Federal.
Alcis.	Canoga.	Flavel.
Alcona.	Cansumset.	Forster.
Aledo.	Caponka.	Fort Russell.
Allentown.	Casmalia.	Fort Sill.
Allison.	Castle Wood.	Fort Snelling.
Alloway.	Ceralvo.	
Alvada.	Cerro Gardo.	Galesburg.
Andalusia.	Chamberino.	Glendola.
Andra.	Chamblee.	Gray Eagle.
Angelina.	Chestnut Hill.	Guilford.
Arambi.	Chetopa.	Guimba.
Arundel.	Chibiabos.	
Askawake.	Chicago Bridge.	Hagan.
Aspenhill.	City of Fairbury.	Hatchie.
Assinippi.	City of Spokane.	Haverhill.
Astoria.	Clemence C. Morse.	Heffron.
Avondale.	Cohasset.	Hillsborough County.
	Cold Harbor.	Hokah.
Baganito.	Coloma.	Holbrook.
Bagos.	Columbine.	Homestead.
Baldhill.	Connersville.	Hoxbar.
Baldrock.	Coperas.	Humaconna.
Balino.	Corcoran.	
Ballenas.	Corrales.	Independence.
Ballew.	Corvallis.	Iris.
Banaran.	Costigan.	
Barabes.	Cotteral.	Jackson.
Barranca.	Cottonplant.	Jacona.
Barryton.	Cottonwood.	
Basaan.	Coulter.	Kamesit.
Bedminster.	Cowanshannock.	Kanakee.
Belfort.	Cowboy.	Kangi.
Belgrade.	Craigsmere.	Katonah.
Bellota.	Craycroft.	Katrina Luckenbach.
Bethlehem Bridge.	Cresap.	Kearny.
Biloxi.		Keota.
Black Arrow.	Dalgada.	Kewanee.
Bloomington.	Dardania.	K. I. Luckenbach.
Blythedale.	Darrah.	Kishacoquillas.
Bobring.	Davenport.	Kitegaun.
Boilston.	Decatur Bridge.	Knoxville.
Bologan.	Deer Lodge.	Kusdeca.
Bonham.	Delight.	
Bonifay.	Diablo.	Lake Agomak.
Bonneteere.	Dochet.	Lake Annette.
Bon Secour.	Doylestown.	Lake Blanchester.
Boone.	Duquesne.	Lake Bledsoe.
Boonsborough.		Lake Calistoga.
Boreta.	Eastern Chief.	Lake Callicoon.
Boulton.	Eastern Cross.	Lake Calvenia.
Bound Brook.	Eastern Queen.	Lake Canaveral.
Boxley.	East Indian.	Lake Candelaria.
Boykin.	Eclipse.	Lake Cannonsburg.
Brentwood.	Edenton.	Lake Catherine.
Brookdale.	Edgecombe.	Lake Charles.
Brookside.	Edisto.	Lake Chelan.

Lake Como.	Montgomery.	Wathena.
Lake Daraga.	Moritz.	Watowan.
Lake Deval.	Morristown.	Waubesa.
Lake Eckhart.	Moss Point.	Waukegan.
Lake Eliko.	Mount Evans.	Wenakee.
Lake Elizabeth.	Mulpua.	West Apaum.
Lake Elkwater.	Muscatine.	West Arrow.
Lake Elkwood.	National Bridge.	West Ashawa.
Lake Ellenorah.	Neolah.	West Brook.
Lake Fanbush.	Nesco.	West Chatala.
Lake Farber.	Newburgh.	West Cherow.
Lake Faresman.	Nipsic.	Westchester.
Lake Faribault.	Nobles.	West Coast.
Lake Farmingdale.	Norma.	West Cobalt.
Lake Flume.	North Pole.	West Compo.
Lake Flushing.	Nupolela.	West Corum.
Lake Flynnus.	Nyanza.	West Durfee.
Lake Foxcraft		West Eagle.
Lake Fray.	Oglethorpe.	West Elcasco.
Lake Freeborn.	Oksa.	Western Ally.
Lake Friar.	Onekama.	Western Belle.
Lake Frohna.	Orion.	Western Comet.
Lake Gakona.	Osaqunsick.	Western Hero.
Lake Galera.	Osawatomie.	Western Knight.
Lake Gedney.	Oshkosh.	Western Light.
Lake Giltedge.	Ossa.	Western Ocean.
Lake Gitano.	Ossineke.	Western Plains.
Lake Glebe.	Ozaukee.	Western Queen.
Lake Gradan.		Western Wave.
Lake Gravella.	Panga.	West Galeta.
Lake Greenbrier.	Passaic Bridge.	West Gotomska.
Lake Greenwood.	Pawtucket.	West Harcuvar.
Lake Grogan	Pequot.	West Hargrove.
Lake Hewes.	Point Loma.	West Harshaw.
Lake Indian.	Puget Sound.	West Hartley.
Lake Janet.	Quaker City.	West Haven.
Lake Kytte.	Quemakoning.	West Helix.
Lake Larga.	Quidnic.	West Henshaw.
Lake Ledan.	Quinault.	West Hepburn.
Lake Lesa.	Quinnesecco.	West Hobomac.
Lake Licoco.	Quittacas.	West Hosokie.
Lake Lilicusun.		West Indian.
Lake Otsquago.	Redlands.	West Inslip.
Lake Pachuta.	Sabotawan.	Westlake.
Lake Pleasant.	Sachem.	Westland.
Lake Singara.	Saco.	West Lashaway.
Lake Strabo.	Sag Harbor.	West Loquassuck.
Lake St. Regis.	Salvation Lass.	West Mahomet.
Lake Superior.	Saris.	West Munham.
Lake Tulare.	Saugerties.	West Segovia.
Lake Washburn.	Schoharie.	West View.
Lake Winooski.	Seattle Spirit.	Westward Ho.
Lake Yahara.	Seypen.	West Wauna.
Iatoka.	Stanley.	West Wind.
Lehigh.	Sturgeon Bay.	Westwood.
Liberty.	Sutherland.	West Zucker.
	Swampscott.	William Henry Webb.
Major Wheeler.		Willimantic.
Makanda.	Tartar.	Winyah.
Manada.	Tillamook.	Wishkah.
Maratanza.	Tipton.	Woodmansie.
Masuda.	Utoka.	Woyaca.
Medford.		
M. J. Scanlon.	Wahkiakum.	Yakima.
Mojave.	Wallowa.	Yesoking.
Monana.	Wasco.	Youngstown.
Mono.	Wassaic.	Yucca.

THE STATIONS OF THE FOLLOWING-NAMED VESSELS ARE OPERATED AND CONTROLLED BY THE INDEPENDENT WIRELESS TELEGRAPH CO.

Ablanset.	Castle Point.	Evansville.
Absecon.	Challenger.	Eyota.
Agarista.	Chantier.	
Agawam.	Chaparel.	Falmouth.
Ahala.	Chappell.	Farnam.
Alector.	Charlot.	Finland.
Algonquin.	Cheron.	Fonduco.
Alpaco.	Chipchung.	Fort Leavenworth.
Ambridge.	City of Eureka.	Fort Pitt Bridge.
Anacortes.	Clare.	
Aniwa.	Clio.	Galahad.
Anniston.	Coamo.	Garfield.
Apache (KVA).	Coaxet.	Glendoyle.
Apalachee.	Cokato.	Gloucester.
Arado.	Cokesit.	Goodspeed.
Ardena.	Colindo.	Gorce.
Artemis.	Colorado Springs.	Governor John Lind.
Artisan.	Comanche.	Gray Cloud.
Asabeth.	Congaree.	Grayling.
Ashbee.	Conotton.	Grecian.
	Consort.	Guardsman.
Baldbutte.	Copalgrove.	Guaro.
Balsan.	Cornucopia.	Gunston Hall.
Balsto.	Corozal.	
Banago.	Costilla.	Haddon.
Bancroft.	Cotati.	Harish.
Bar Harbor.	Coulee.	Hartford.
Barralton.	Courageous.	Hatteras.
Barstow.	Coushatta.	Henry Clay.
Bathalum.	Coutolene.	Houma.
Belair.	Cowee.	Howard.
Bellingham.	Craigrownie.	Hoxie.
Benoni.	Cranenest.	Hulver.
Berwyn.	Crathorne.	Huron.
Betsy Bell.	Cretan.	Hyannis.
Biran.	Cruso.	
Blair.	Custodian.	
Blandon.		Ice King.
Botsford.	Dade County.	Indianapolis.
Boxbutte.	Datis.	Ingold.
Boynton.	Defiance.	Iroquois.
Brandywine.	Delavan.	Isabela.
Braxton.	Deranof.	Isanti.
Brazos.	Deva.	Isonomia.
Bremerton.	Devolente.	
Brookhaven.	Dio.	Jacox.
Buckhorn.	Dorchester.	Jefferson County
Bushong.		Jekyl.
Buttercup.	Easterling.	Johnson City.
	Easterner.	Juniata (KQJ).
Cabegon.	Eastern Light.	
Caddopeak.	Eastern Mariner.	Keketticut.
Calala.	Eastern Moon.	Kershaw.
Calaveras.	Eastern Sea.	Kickapoo.
Calicorock.	Eastern Star.	Kimta.
Callabasas.	Eastern Sun.	Knights Island.
Callooh.	East Side.	Kroonland.
Calno.	East Wind.	
Canibas.	Edgefield.	Laborer.
Cape May.	Edmore.	La Forge.
Capines.	Elkton.	Lake Akkra.
Caribou.	Elmsport.	Lake Arline.
Cascade.	Englewood.	Lake Benbow.
Casco.	Essex.	Lake Benton.

Lake Berdan.	Lenape.	Plainfield.
Lake Bridge.	Lewiston.	Point Arena.
Lake Cahoon.	Liberty Land.	Polar Bear.
Lake Charlotte.	Lithopolis.	Polybius.
Lake Crescent.	Lonoke.	Ponce.
Lake Duncan.	Louisville Bridge.	Pontia.
Lake Dwyer.	Luxpallie.	Poughkeepsie.
Lake Ellendale.		Proctor.
Lake Fannin.	Magunkook.	Prusa.
Lake Farge.	Mangore.	
Lake Faristell.	Mannahocking.	Quapaw.
Lake Fernalda.	Margaret (KZO).	Quinnipiac.
Lake Fernwood.	Mariana.	Quistconck.
Lake Fibro.	Masca.	Quque.
Lake Fielding.	Mattapan.	
Lake Flagon.	McKeesport.	Remus.
Lake Fluvana.	Mercer Victory.	Riverside Bridge.
Lake Fonda.	Merrimack.	Roanoke.
Lake Fontana.	Merry Mount.	Ruth.
Lake Forkville.	Middlebury.	
Lake Forney.	Mineola.	Saccarappa.
Lake Fouche.	Minnequa.	Sac City.
Lake Fraichur.	Mohawk (KVM).	Sagadahoc.
Lake Fraley.	Moline.	Sagaporack.
Lake Freeland.	Monasses.	Saluda.
Lake Frio.	Monmouth.	Santurce.
Lake Frolono.	Montclair.	Sarcoxie.
Lake Fugard.	Monticello.	Saucon.
Lake Furley.	Montoso.	Saugus.
Lake Gaither.	Moraine.	Scantic.
Lake Garza.	Morganza.	Schoodic.
Lake George.	Mount Shasta.	Sewickley.
Lake Gilboa.	Mount Vernon Bridge.	Shannock.
Lake Glencoe.		Shickshinny.
Lake Gorin.	Nameaug.	Silverado.
Lake Gormanian.	Namecki.	South Pole.
Lake Govan.	Nansemond.	Steadfast.
Lake Grafton.	Nantahala.	St. Paul.
Lake Grampus.	Nantasket.	
Lake Granby.	Nantucket.	Tanka.
Lake Grandon.	Nashotah.	The Lambs.
Lake Graphite.	Nedmac.	Toka.
Lake Grattan.	Nemassa.	Toledo Bridge.
Lake Harris.	Neponset.	Tona.
Lake Helen.	Neshaminy.	Tripp.
Lake Jessup.	New York (KSN)	Tuckahoe.
Lake Lemando.	North Bend.	Tuckanuck.
Lake Licking.		
Lake Lillian.	Oakland.	Victorious.
Lake Mattato.	Oconee.	Vincennes Bridge.
Lake Monroe.	Ogontz.	Vincent.
Lake Ogden.	Okiya.	Volunteer.
Lake Ormoc.	Ontario.	
Lake Osweya.	Opequan.	Wabash.
Lake Pickaway.	Oraton.	Wakan.
Lake Saba.	Osage.	Wakanna.
Lake Savus.	Oscoda.	Wakulla.
Lake Shawano.	Oskaloosa.	Wampum.
Lake Silver.	Oskawa.	Wancyanda.
Lake Traverse.	Ozette.	Warszawa.
Lakeville.		Wauconda.
Lake Wimico.	Panola.	Waukau.
Lake Yemassee.	Pasadena.	Waukesha.
Lake Ypsilanti.	Persian.	Wayhut.
Lake Zaliski.	Philadelphia (KSM).	West Alcoz.
Laurel.	Pipestone County.	West Aleta.
Lebanon.	Piqua.	West Alsek.

West Amargosa.	Western Pride.	Westmoreland.
West Avenal.	Western Scout.	West Nohno.
West Cactus.	Western Sea.	West Sequana.
West Caddoa.	Western Spirit.	West Tacook.
West Cajoot.	Western Star.	West Togus.
West Calumb.	Westford.	West Totant.
West Campgaw.	West Galoc.	West Wauneke.
West Cape.	West Gambo.	West Zeda.
West Carruth.	Westhampton.	West Zula.
West Cavanal.	West Hardaway.	Wihaha.
West Celeron.	West Harlan.	Woodman.
West Chetac.	West Hartland.	Worcester.
West Conob.	West Hematite.	
West Cressy.	West Irmo.	Yaklok.
West Ekonk.	West Kasson.	Yamhill.
West Elcajon.	West Lianga.	Yaquina.
West Eldara.	West Madaket.	
Western City.	West Maximus.	Zaca.
Western Glen.	West Modus.	Zirkel.

Strike out all particulars of the following-named vessels:

Amazonia.	Lake Huron.	Mayport.
Balabac.	Lakeside.	Natenna.
Brookfield.	Lassell.	Olockson.
Coral.	Maine (KXD).	St. Louis.
Despatch.	Manola.	Transfer No. 17.
Kaskaskia.	Marshall.	

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

KBUI, *read* Vittorio Emanuele III; KELV, *read* Obak; KJC *read* Oconee; KOKC, *read* Northern Star; KOZK, *read* West Hika; KOZV, *read* William H. Webb; WLM, *read* Warszawa; WLY, *read* Poznam; WSK, *read* Richmond Hill, Jamaica, N. Y.; and WZEO *read* Randolph S. Warner. Strike out all particulars following the call signals KBAE, KBIO, KEGD, KICL, KIMF, KMEA, KNOO, KOFB, KOO, KSL, KUCT, KXD, WNUU, WTIE, WZUO.

GOVERNMENT LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 15, 1919.]

BALTIMORE, MD.—Hours, 8 a. m. to 12 p. m.
 NAVASSA ISLAND, CUBA.—*Read* Navassa Islands, W. I.

Strike out all particulars of the following-named stations:

ANASTASIA ISLE, FLA.
 CAPE FEAR, N. C. (radio compass station).
 NEW BRUNSWICK, N. J.
 SAN FRANCISCO, CALIF. (Crocker Building), NWO.

GOVERNMENT SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 15, 1919.]

AUSBURNE.—*Read* Charles Ausburne.
 BARNEGAT.—*Read* S. P. 1232 (Barnegat).
 BREAKWATER.—*Read* S. P. 681 (Breakwater).
 CHALLENGE.—*Read* S. P. 1015 (Challenge).
 CONESTOGA.—*Read* S. P. 1128 (Conestoga).
 EXPLORER.—*Read* NAVM.
 FEARLESS.—*Read* S. P. 724 (Fearless).
 FRANCIS B. HACKETT.—*Read* S. P. 1161 (Francis B. Hackett).

GENESEE.—Read S. P. 1116 (Genesee).
 ISABEL.—Read S. P. 521 (Isabel).
 MAY.—Read S. P. 164 (May).
 NOKOMIS.—Read S. P. 609 (Nokomis).
 SARATOGA.—Read NELB.
 SOTOYOMO.—Read NECZ.
 S. P. 237 (Ranger).—Read Ranger.
 UTOWANA.—Read S. P. 951 (Utowanah).
 WAINWRIGHT.—Read NKX.
 WINCHESTER.—Read S. P. 156 (Winchester).

Strike out all particulars of the following-named stations:

Bainbridge.	Paul Jones.	Subchaser No. 321.
Barry.	Perry.	Subchaser No. 418.
C-5.	Rambler.	Troy.
Emeline.	S. P. 319. (J. A. Palmer.)	Truxtun.
Goliath.	Subchaser No. 4.	Wasp.
Guard.	Subchaser No. 137.	Winnisimmet.
Harvard.	Subchaser No. 256.	Wissahickon.
Hull.	Subchaser No. 261.	
P. A. H. Hubbard.	Subchaser No. 290.	

GOVERNMENT LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

NHF, read S. P. 521 (Isabel); NJI, read S. P. 951 (Utowanah); NKC, read Navassa Island, W. I.; NKG, read S. P. 1116 (Genesee); NKX, read Wainwright; NTD, read S. P. 1161 (Francis B. Hackett); NADQ, read S. P. 1232 (Barnegat), NAGP, read S. P. 1128 (Conestoga); NALQ, read S. P. 164 (May), NAMM, read S. P. 609 (Nokomis); NAVM, read (Explorer); NECZ, read Sotoyomo; NELB, read Saratoga; NEKM, read S. P. 724 (Fearless); NEKS, read S. P. 1015 (Challenge); NUDG, read Ranger; NUKS, read S. P. 156 (Winchester); NUMS, read S. P. 681 (Breakwater), and NUPR, read Charles Ausburne. Strike out all particulars following the call signals, NAP, NDK, NDX, NFF, NHE, NIA, NIC, NMT, NNR, NOP, NOY, NSV, NUS, NVY, NWO, NXO, NACQ, NADJ, NANP, NAVK, NELZ, NOBF, NOKK, NOQX, NORF, NOST, NOVD, NOZQ, and NUFX.

SPECIAL LAND STATIONS BY NAMES OF STATIONS.

Strike out all particulars of the following-named stations:

Cleveland, Ohio (8XF).
 Detroit, Mich. (8XD).

MISCELLANEOUS.

LAND STATIONS REOPENED.

Attention is invited to the fact that the following coast stations are open to general public service, at all hours, for communication with vessels at sea:

Brooklyn, N. Y. (WCG) Richmond Hill, Jamaica, N. Y. (WSK) New London, Conn. (WLC).

RATE CHANGES.

Beginning April 1, 1920, the rate for North and South American service and *transoceanic* service on all vessels operated and controlled by the *Radio Corporation of America* will be 4 cents per word.

On ship and coast stations operated and controlled by the International Radio Telegraph Co. there is no charge for relay traffic.

APPLICATIONS FOR RADIO CALL LETTERS.

Applications for radio call letters should be made to radio inspectors and collectors of customs at the different ports and not to the office of this Bureau in Washington. Applications should be made at the time application is made for the official number and signal letters and not before such time.

CHANGE IN STATION AT PUERTO OBALDIA, R. P.

Herewith is printed Circular No. 643-69 (corrected) received from the Executive Office, Panama Canal, Balboa Heights, C. Z.:

JANUARY 12, 1920.

Notice to Mariners.

U. S. Naval Radio Station, Puerto Obaldia, in Operation.

1. The U. S. Naval Radio Station, Puerto Obaldia, R. P., is now in operation. The station is located at Puerto Obaldia, near the eastern extremity of the Atlantic sea-coast of the Republic of Panama; approximate position, latitude 8° 40' north, longitude 77° 22' west. The station call is NRK.

2. Puerto Obaldia is operated by the U. S. Naval Communication Service and is prepared to handle U. S. and Panaman Government despatches free of charge. The station also handles commercial traffic at rates which may be obtained from the Naval Radio Station, Balboa, C. Z.

3. The following daily schedule of watches will be maintained by Puerto Obaldia Radio: 6.00 to 8.00 a. m.; 12.00 noon to 2.00 p. m.; 6.00 to 8.00 p. m. All messages for this station will be handled via Balboa Radio on above schedules, and those received at Balboa at any time outside of schedule can not be transmitted until the following schedule.

4. Messages for Puerto Obaldia, or other U. S. Naval Radio Stations in the Republic of Panama, may be filed at any of the Panama Railroad or Panama National Telegraph offices.

JAY J. MORROW,
Acting Governor.

LAND STATION LICENSES.

All commercial land stations, experimental, and technical and training stations are required to obtain a license before operating as required by section 1 of the act of August 13, 1912.

The filing of the application or the assignment of radio call letters does not constitute authority for operating a station.

Owners of stations who fail to apply with the above requirements may expect action to be taken in accordance with the above-cited act.

ADDITIONAL COPIES

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