

# RADIO SERVICE BULLETIN

U. S.

ISSUED MONTHLY BY BUREAU OF NAVIGATION, DEPARTMENT OF COMMERCE

Washington, October 1, 1920—No. 42

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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.

HE 8677  
A3  
index

## COMMERCIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 30, 1920, and to the International List of Radiotelegraph Stations published by the Bureau.]

Station.	Call signal.	Wave lengths.	Service.	Hours.	Station controlled by—
Beaumont, Tex.	WOD	300, 440, 600	PR		Magnolia Petroleum Co.
Bolinas, Calif.	KPH	300, 450, 600	PG	N	Radio Corp. of America.
Cape May, N. J.	WCY	300, 600	PG	N	International Radio Teleg. Co.
Hyder, Alaska <sup>1</sup>	KDFA	300, 550, 600, 1610	PG-PR	X	Hyder Townsite & Improvement Co.
Quincy, Mass.	KDQU	300, 600, 1965	PR	X	Bethlehem Shipbuilding Corp.
Tulsa, Okla.	KDGT	425, 450	PR	N	Southwestern Wireless Teleg. & Teleg. Co.

<sup>1</sup> Ship service 6 c. per word.

<sup>2</sup> Ship service 6 c. per word, no minimum, cable count; station to station 6 c. per word, domestic count; station to station, night message, 5 c. per word, domestic count; station to station, night letter, 60 c. for 50 words, 12 c. for each additional 10 words or fraction thereof.

## COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[Additions to the List of Radio Stations of the United States, edition of June 30, 1920, and to the International List of Radiotelegraph Stations published by the Bureau.]

Name of vessel.	Call signal.	Rates.		Service.	Hours.	Owner of vessel.	Station controlled by—
		North and South American service.	Trans-oceanic service.				
		Cents.	Cents.				
Aslaug	KDFY			PG		Winneconne S. S. Corp.	
Bayou Chico	KDGK	4	4	PG	X	U. S. Shipping Board.	
Bonnie Brook	KDGG	4	4	PG	X	do.	
Cantigny	KDFO	4	4	PG		do.	
Castana	KDFF	4	4	PG	X	do.	
Catahoula	KDFG	4	4	PG	X	do.	
Charles H. Cramp	KDHH	4	4	PG	N	do.	
China Arrow	KDGW			PG	N	Standard Transportation Co.	
City of Rayville	KDGS	4	4	PG	X	U. S. Shipping Board.	
Clement Smith	KDGO			PG			
Donna Lane	KDGN			PG	X	Donna Lane Motorship Corp.	
Eastern Temple	KDEZ	4	4	PG		U. S. Shipping Board.	S. O. R. S.
East Hampton	KDFZ			PG		C. E. Davis Packing Co.	Owner of vessel.
Edgar F. Coney	KDHD			PG	X	Philip Shore	
Elisha Walker	KDQQ			PG	X	Pan-American Petroleum & Transport Co.	
Floraba	KDHE			PG		Gulf Navigation Co.	I. W. T. Co.
Gateway City	KDFD	4	4	PG	X	U. S. Shipping Board.	
Glénora	KDFP	4	4	PG	X	do.	
Gonzata	KDFL			PG		Gulf Navigation Co.	Do.
Griffco	KDFN			PG		James Griffiths & Sons (Inc.)	
Halway	KDFQ	4	4	PG		U. S. Shipping Board.	
Hannawa	KDFR	4	4	PG		do.	
Harvester	KDHC			PG	X	Texas S. S. Co.	
Intrepid	KDHI	4	4			W. S. Kilmer	R. C. of A.
Janelaw	KDFS	4	4	PG	X	U. S. Shipping Board.	
Jeptha	KDFU	4	4	PG		do.	
John Stevens	KDGM	4	4	PG	X	do.	
Kekoskeo	KDGY	4	4	PG		do.	
Lake Gano	KDGR	4	4	PG	X	do.	

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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.				
Lavada.....	KDFV	4	4	PG		U. S. Shipping Board.	
Manatawny.....	KDFM	4	4	PG	X	do	
Mursa.....	KDFT	4	4	PG		do	
Muskegon.....	KDGP			PG		American Transatlantic Co.	
New Orleans.....	KDFB	4	4	PG	X	U. S. Shipping Board.	I. W. T. Co.
Nora.....	KDGZ			PG	X	W. R. Grace & Co.	
Old North State.....	KDHF	4	4	PG	N	U. S. Shipping Board.	
Pagasset.....	KDHG	4	4	PG	N	do	
Potter.....	KDFC	4	4	PG	X	do	
Provincetown.....	KDFE	4	4	PG	N	do	
Steel Ranger.....	KDGL			PG	N	U. S. Steel Products Co.	
Sudawsonco.....	KDFJ			PG	X	Submarine Boat Corp.	
Sulanierco.....	KDFI			PG	X	do	
Suremico.....	KDHB			PG	X	do	
Suricho.....	KDHA			PG	X	do	
Suscolanco.....	KDFK			PG	X	do	
Tomalva.....	KDFH			PG	X	U. S. Shipping Board.	S. O. R. S.
West Carmona.....	KDFW	4	4	PG		do	
West Honaker.....	KDFX	4	4	PG		do	
William Penn.....	KDGV	4	4	PG	X	do	

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

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

Call signal.	Name.	Call signal.	Name.
KDFZ	Eastern Temple.....	b	
KDFA	Hyder, Alaska.....	c	
KDFB	New Orleans.....	b	
KDFC	Potter.....	b	
KDFD	Gateway City.....	b	
KDFE	Provincetown.....	b	
KDFF	Castana.....	b	
KDFG	Catahoula.....	b	
KDFH	Tomalva.....	b	
KDFI	Sulanierco.....	b	
KDFJ	Sudawsonco.....	b	
KDFK	Suscolanco.....	b	
KDFL	Ganzaba.....	b	
KDFM	Manatawny.....	b	
KDFN	Griffo.....	b	
KDFO	Cantigny.....	b	
KDFP	Glenora.....	b	
KDFQ	Halway.....	b	
KDFR	Hannawa.....	b	
KDFS	Janelaw.....	b	
KDFT	Mursa.....	b	
KDFU	Jeptha.....	b	
KDFV	Lavada.....	b	
KDFW	West Carmona.....	b	
KDFX	West Honaker.....	b	
KDFY	A. slaug.....	b	
KDFZ	East Hampton.....	b	
KD GK	Bayen Chico.....	b	
KDGL	Steel Ranger.....	b	
KDGM	John Stevens.....	b	
KDGN	Donna Lane.....	b	
KDGO	Clement Smith.....	b	
KDGP	Muskegon.....	b	
KDGG	Elisha Walker.....	b	
KDGR	Lake Gano.....	b	
KDGS	City of Rayville.....	b	
KDGT	Tulsa, Okla.....	c	
KDGU	Quincy, Mass.....	c	
KDGV	William Penn.....	b	
KDGW	China Arrow.....	b	
KDGX	Bonnie Brook.....	b	
KDGY	Kekoskee.....	b	
KDGZ	Nora.....	b	
KDHA	Suricho.....	b	
KDHB	Suremico.....	b	
KDHC	Harvester.....	b	
KDHD	Edgar F. Coney.....	b	
KDHE	Floraba.....	b	
KDHF	Old North State.....	b	
KDHG	Pagasset.....	b	
KDHH	Charles H. Cramp.....	b	
KDHI	Intrepid.....	b	
KDII	Bollnas, Calif.....	c	
KDJ	Cape May, N. J.....	c	
WCY	Beaumont, Tex.....	c	
WOD			

### GOVERNMENT LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 30, 1920, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Station.	Call signal.	Station controlled by—
Camp Alfred Vail, N. J.....	WUBA	U. S. Signal Corps.
Camp John Hay, P. I.....	WUCB	Do.
Camp Stotsenburg, P. I.....	WUCA	Do.
Port Eads, La.....	WZHI	Do.

### GOVERNMENT SHIP STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 30, 1920.]

Name of ship.	Call signal.	Name of ship.	Call signal.
Holland.....	NIRM	Wright.....	NIRN
Whitney.....	NIRL		

### GOVERNMENT LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

[h—ship station: c—land station.]

Call signal.	Name of station.	Call signal.	Name of station.
NIRL	Whitney.....	b	
NIRM	Holland.....	b	
NIRN	Wright.....	b	
WUBA	Camp Alfred Vail, N. J.....	c	
		WUCA	Camp Stotsenburg, P. I.....
		WUCB	Camp John Hay, P. I.....
		WZHI	Port Eads, La.....

### SPECIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 30, 1920, only.]

Station.	Call signal.	Station controlled by—
Alexandria, La.....	5ZD	Frank B. Beuhler.
Atlanta, Ga.....	4XC	B. W. Benning.
Bethesda, Md.....	3ZF	John V. Pursell.
Cincinnati, Ohio.....	8ZH	East High School.
Dearborn, Mich.....	8XD	Henry Ford.
Detroit, Mich.....	5XR	Detroit Edison Co.
Dunmore, Pa.....	8ZQ	Roy C. Ehrhardt.
Hagerstown, Md.....	3ZI	Roy C. Corderman.
Hartford, Conn.....	1XV	C. D. Tuska Co.
Houston, Tex.....	5ZC	B. J. Still.
Lansing, Mich.....	8ZF	Maurice H. Pancost.
Los Angeles, Calif.....	6XN	A. H. McClelland, J. B. Farrington, and A. A. Kluge.
Marietta, Ohio.....	8ZE	Norman A. Thomas and Edward Man- ley.
Marietta, Ohio.....	8ZT	George M. Withington, jr.
Mecklenburg, N. C. (near Charlotte, N. C.).....	4XD	F. M. Laxton.
New Braunfels, Tex.....	5YK	Edgar A. Sahn.
New Philadelphia, Ohio.....	8ZA	Charles J. Murray.
New York, N. Y.....	2XD	Ware Radio Co.

SPECIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS—  
continued.

Station.	Call signal.	Station controlled by—
Northville, Mich.....	8XL	Henry Ford.
Philadelphia, Pa.....	3XJ	St. Joseph's College.
Philadelphia, Pa.....	3YG	Philadelphia School of Wireless Telegraphy.
Philadelphia, Pa.....	3ZG	Allyn E. Seuffert.
Philadelphia, Pa.....	3ZJ	Maj. J. H. Clinton.
Pilot Point, Tex.....	5ZB	Clyde S. Mosteller.
Pittsburgh, Pa.....	8XN	Carnegie Institute of Technology, Radio Club.
Pittsburgh, Pa.....	8ZD	Burton P. Williams.
Port Chester, N. Y.....	2ZE	Paul F. Godley.
Port Huron, Mich.....	8XP	Detroit Edison Co.
Portland, Oreg.....	7XA	Radio Corp. of America.
Providence, R. I.....	1XX	Brown University (Physics Department).
Redlands, Calif.....	6ZJ	Arthur L. Munzig.
Richfield, Utah.....	6ZH	Wesley C. Thompson.
Richmond Hill, N. Y.....	2XE	A. H. Grebe & Co.
Richmond Hill, N. Y.....	2ZV	Do.
Salem, Ohio.....	8ZG	A. J. Manning.
San Diego, Calif.....	6ZB	Dr. Alfred E. Banks.
San Francisco, Calif.....	6XC	Lee de Forest (Inc.).
San Jose, Calif. (portable).....	6XE	Charles D. Herrold.
Seattle, Wash.....	7XC	Vincent I. Kraft.
South Manchester, Conn.....	1XT	John L. Remartz.
Sunnyvale, Calif.....	6ZK	Arthur E. Bessey.
Superior, Mich.....	8XQ	Detroit Edison Co.
Toledo, Ohio.....	8ZB	Earl S. Ensign and William P. Van Behren.
Vancouver, Wash.....	7ZG	Royal Mumford.
Waco, Tex.....	5ZF	Henry M. Harris.
Washington, D. C.....	3XL	Alfred Crossley.
Washington, D. C.....	3ZE	Harold A. Snow.
Woodside, N. Y. (Long Island).....	2ZD	Ship Owners' Radio Service.
Yuma, Ariz.....	6ZL	Alexander N. Marquis.

SPECIAL LAND STATIONS GROUPED BY DISTRICTS.

Call signal.	District and station.	Call signal.	District and station.
1XT	First district:	6XC	Sixth district:
1XV	South Manchester, Conn.	6XE	San Francisco, Calif.
1XX	Hartford, Conn.	6ZB	San Jose, Calif. (portable).
	Providence, R. I.	6ZJ	San Diego, Calif.
2XD	Second district:	6ZH	Richfield, Utah.
2XE	New York, N. Y.	6ZK	Redlands, Calif.
2ZD	Richmond Hill, N. Y.	6ZL	Sunnyvale, Calif.
2ZE	Woodside, N. Y. (Long Island).	6XN	Yuma, Ariz.
2ZV	Port Chester, N. Y.		Los Angeles, Calif.
	Richmond Hill, N. Y.	Seventh district:	Portland, Oreg.
3XJ	Third district:	7XA	Seattle, Wash.
3XL	Philadelphia, Pa.	7ZG	Vancouver, Wash.
3YG	Washington, D. C.		Eighth district:
3ZE	Philadelphia, Pa.	8XD	Dearborn, Mich.
3ZF	Washington, D. C.	8XL	Northville, Mich.
3ZG	Bethesda, Md.	8XN	Pittsburgh, Pa.
3ZI	Philadelphia, Pa.	8XP	Port Huron, Mich.
3ZJ	Hagerstown, Md.	8XQ	Superior, Mich.
	Philadelphia, Pa.	8ZA	New Philadelphia, Pa.
4XC	Fourth district:	8ZB	Toledo, Ohio.
4XD	Atlanta, Ga.	8ZD	Pittsburgh, Pa.
	Mecklenburg, N. C. (near Charlotte, N. C.).	8ZE	Marietta, Ohio.
5YK	Fifth district:	8ZF	Lansing, Mich.
5ZB	New Braunfels, Tex.	8ZG	Salem, Ohio.
5ZC	Pilot Point, Tex.	8ZH	Cincinnati, Ohio.
5ZD	Houston, Tex.	8ZQ	Dunmore, Pa.
5ZF	Alexandria, La.	8XR	Detroit, Mich.
	Waco, Tex.	8ZT	Marietta, Ohio.

## 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.  
 Co. =Company.  
 Corp. =Corporation.  
 & =And.

## ALTERATIONS AND CORRECTIONS.

## COMMERCIAL LAND STATIONS.

Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 30, 1920, and to the International List of Radiotelegraph Stations, published by the Berne bureau.]

- AVALON, CALIF.—*Read* Pedrocitas, Calif.; rates, station to station 25 c. for five minutes, each additional minute 5 c., person to person 30 c. for three minutes, each additional minute 10 c., appointment 35 c. for three minutes, each additional minute 10 c., report charge 10 c. Telegraph rate 60 c. for 10 words, each additional word 5 c.  
 LONG BEACH, CALIF.—Rates, same as above.  
 ROCKLAND, ME.—Service, PG; hours, N; rates, transoceanic and coastal ships 6 c. per word.

## COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAME OF VESSELS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 30, 1920, and to the International List of Radiotelegraph Stations, published by the Berne bureau.]

- ASUNCION.—G. W. McNear (Inc.) owner of vessel.  
 BABINDA.—Pacific Motorship Co. owner of vessel.  
 BUCKHANNON.—Gulf & Southern S. S. Co. owner of vessel.  
 CARPLAKE.—Correct orthography CARPLAKA; station operated and controlled by I. W. T. Co.  
 CHANCOOK.—Name changed to H. F. Morse, United States Transport Co. owner of vessel; station operated and controlled by S. O. R. S.  
 DEERFIELD.—Elder Steel S. S. Co. owner of vessel.  
 DIRIGO.—Texas Co. owner of vessel.  
 ELMAC.—U. S. Shipping Board owner of vessel; station operated and controlled by S. O. R. S.

GEORGE E. PADDLEFORD.—Name changed to Oscar D. Bennett.  
 GOVERNOR COBB.—Peninsular & Occidental S. S. Co. owner of vessel.  
 LAKE GREENWOOD.—Name changed to Catherine.  
 LAKE MONROE.—Name changed to Mary.  
 LIGHTBURNE.—Texas Co. owner of vessel.  
 LYDIA.—Lydia S. S. Co. owner of vessel.  
 OCONEE.—Oconee S. S. Co. owner of vessel.  
 ROBIN ADAIR.—Seas Shipping Co. owner of vessel.  
 THEODORE F. REYNOLDS.—Steamships Theodore F. Reynolds Corp. owner of vessel.  
 WEST CAWTHON.—Imperial S. S. Corp. owner of vessel.

THE STATIONS OF THE FOLLOWING-NAMED VESSELS ARE OPERATED AND CONTROLLED BY THE RADIO CORPORATION OF AMERICA.

Carenco.	Kiokee.	Palo Alto.
City of Lordsburg.	Mosella.	Topa Topa.
Cuyamaca.		

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

Algic.	Eastern Soldier.	Lake Tippah.
Apus.	Hera.	Niobe.
Cape Romain.	Lake Ennis.	Pawnee (KDGC).
Derblay.	Lake Falun.	Yaka.

THE STATIONS OF THE FOLLOWING-NAMED VESSELS ARE OPERATED AND CONTROLLED BY THE SHIPOWNERS' RADIO SERVICE.

Bayside.	Halsey.	Lake Haresti.
Carlton.	Hollywood (KDCS).	Menominee.
City of Freeport.	John Englis.	Monomac.
Clemence C. Morse.	Kitchi.	Panhandle State.
Cody.	Lake Dunmore.	Sioux City.
Edgewood.	Lake Galisteo.	Wauwatosa.
Half Moon.		

STRIKE OUT ALL PARTICULARS OF THE FOLLOWING-NAMED VESSELS:

Artisan.	Columbine.	Maryanne.
Balino.	Coulter.	Santa Elena.
Barrington.	Elihu Thomson.	Seypen.
Borinquen.	Fame.	Woodman.
Cabura.	Hamlin.	Xenia.
Coloma.		

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

KDES, read Carplaka; KOFJ, read H. F. Morse; KTOE, read Mary; KTOI, read Catherine; KUXV, read Pedrocitas, Calif.; WIV, read Oscar D. Bennett. Strike out all particulars following the call signals KBOE, KEDL, KEXD, KFL, KFV, KIBP, KJIA, KNIU, KOJC, KOLQ, KQAA, WBZ, WGEU, WKUO, WLOI, and WQAO.

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 30, 1920.]

FORT WASHINGTON, MD. Call letters, WXG.

**STRIKE OUT ALL PARTICULARS OF THE FOLLOWING-NAMED VESSELS:**

Alexandria, Va.	} Tractors.	Fort De Russey, Hawaii.
Camp Vail, N. J. (WEBB)		Fort Hughes, Philippine Islands.
Camp Vail, N. J. (WEBC)		Fort William McKinley, Philippine Is-
Camp Vail, N. J. (WEBD)		lands.
Camp Vail, N. J. (WEBF)		
Camp Vail, N. J. (WEBG)		

**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 30, 1920.]

**PETREL.**—Strike out all particulars.

**GOVERNMENT LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.**

Strike out all particulars following the call signals WEBB, WEBC, WEBD, WEBF, WEBG, WVM, WVQ, WXY, WZG, and NOZ.

**SPECIAL LAND STATIONS, BY NAMES OF STATIONS.**

**MIDDLETOWN, CONN. (IXN).**—Station controlled by Wesleyan University.

**MISCELLANEOUS.****LOST COMMERCIAL RADIO OPERATORS' LICENSES.**

Printed below is a list of radio operators' licenses which have been reported to this Bureau as having been lost. Should any of them be found, they should be returned to the Bureau for cancellation. Inspectors and others concerned should see that lost licenses are not being used by unauthorized persons.

Name.	Grade.	Number.	Date issued.	Port issued.
Anderson, William W.....	Second.....	15819	Jan. 21, 1920	New York.
Austin, Francis M.....	First.....	21913	May 20, 1920	New Orleans.
Boldt, Earl H.....	First.....	17190	Apr. 19, 1920	Chicago.
Boye, Herman W.....	Second.....	15707	Nov. 11, 1919	New York.
Brantley, Claude V.....	First.....	21858	Mar. 16, 1920	New Orleans.
Butler, Ralph E.....	Second.....	14134	Dec. 12, 1919	Seattle.
Churchill, John Rech.....	First.....	13259	Aug. 27, 1918	Norfolk.
Dufour, Albert M.....	Second.....	12163	July 8, 1920	Baltimore.
Field, Paul.....	Second.....	15887	Feb. 28, 1920	New York.
Finzimer, Joseph.....	First.....	19882	Mar. 6, 1920	Baltimore.
Forman, Abe.....	Second.....	15446	May 6, 1920	Boston.
Frey, Elmer Ed.....	Second.....	16109	Apr. 9, 1920	New York.
Ginsburg, Louis.....	First.....	18846	Aug. 1, 1919	Do.
Haring, Dion L.....	First.....	18974	Aug. 22, 1919	Do.
Hazan, S.....	First.....	16012	Dec. 11, 1917	New Orleans.
Klein, Ernest A.....	First.....	16539	July 7, 1919	Chicago.
Landon, Edward B.....	First.....	17256	Mar. 23, 1920	Detroit.
MacMaster, Nelson.....	Second.....	15834	Feb. 2, 1920	New York.
McCeney, Herbert L.....	Second.....	12047	Jan. 26, 1920	Do.
Moulton, Harold.....	First.....	14560	June 12, 1919	Boston.
Ray, James.....	Second.....	14125	Nov. 1, 1919	Seattle.
Smith, Herbert D.....	First.....	19645	Oct. 10, 1919	Boston.
Stimson, Robert C.....	First.....	20736	July 20, 1920	New York.
Theiss, Otto.....	First.....	19441	Dec. 18, 1919	San Francisco.
Troiano, Vincent.....	Second.....	15803	Jan. 14, 1920	New York.
Vandenburgh, Charles M.....	First.....	13119	Sept. 5, 1919	San Francisco.
White, Lawrence S.....	First.....	23535	July 6, 1920	New York.



BRITISH LAND LINE RATES.

Land lines quote rates effective, September 1, British Isles, 1s for 12 words, each additional word 1d.

NEW COMMERCIAL STATION AT DEVIZES, WILTSHIRE.

The British General Post Office advises that a new station has been placed in operation at Devizes, Wiltshire, working on 2200 meters, continuous wave. Call letters GKU. This station is in operation at the following times:

- G. M. T.
- 0-2
- 8-10
- 16-18.

WATCH HOURS FOR ITALIAN VESSELS WITH ONE AND TWO OPERATORS, RESPECTIVELY.

This office is informed by the Berne international bureau that the Italian Government placed the following schedule in effect, beginning February 1, 1920:

WATCH HOURS FOR VESSELS WITH ONE OPERATOR.

Zone.	Western boundary.	Eastern boundary.	Watch hours (Greenwich time).
A. East Atlantic.....	Meridian 30° W. coast of Greenland.	Meridian 30° E. to the south of the coast of Africa, shores of the Mediterranean, Black Sea, and Baltic, meridian 30° E. to the north of Norway.	8-10, 12-14, 16-18, 20-22.
B. Indian Ocean, east Arctic Ocean.	East of zone A.....	Meridian 90° E.....	0-2, 12-14, 16-18, 20-22.
C. China Sea, west Pacific Ocean.	East of zone B.....	Meridian 160° E.....	0-2, 4-6, 12-14, 20-22.
D. Central Pacific Ocean.....	East of zone C.....	Meridian 140° W.....	0-2, 4-6, 8-10, 20-22.
E. East Pacific Ocean.....	East of zone D.....	Meridian 70° W. to the south of the coast of Africa, west coast of America.	0-2, 4-6, 16-18, 20-22.
F. West Atlantic Ocean, Gulf of Mexico.	Meridian 70° W. to the south of the coast of America, east coast of America.	Meridian 30° W. coast of Greenland.	0-2, 12-14, 16-18, 20-22.

WATCH HOURS FOR VESSELS WITH TWO OPERATORS.

Zone.	Watch hours (Greenwich time).	Zone.	Watch hours (Greenwich time).
A.....	0-6, 8-14, 16-18, 20-22.	D.....	0-2, 4-6, 8-10, 12-18, 20-24.
B.....	0-2, 4-10, 12-14, 16-18.	E.....	0-2, 4-6, 8-11, 16-22.
C.....	0-6, 8-10, 12-14, 16-22.	F.....	0-2, 4-10, 12-18, 20-22.

## BRITISH COAST STATION RATES.

Beginning September 1, this year, the combined rates should appear in notes 2, 3, and 4, page 71, of the English edition of the Berne international list as follows: 73 centimes per word, no minimum; 44 centimes per word, minimum 4 francs 40 centimes; and 28 centimes per word, minimum 2 francs 80 centimes, respectively.

## NEW FRENCH COAST STATIONS.

The coast stations Cherbourg-Rouges-Terres and Oran-Ain-el-Turck are open for general public service correspondence.

## TRANSMISSION OF METEOROLOGICAL INFORMATION BY RADIO.

The Naval Communication Service advises that the naval radio station at Point Isabel, Tex., transmits meteorological information to mariners daily at 11 p. m., 75th meridian time, on 2,350 meters.

## MINE WARNINGS TO MARINERS.

The following information is taken from "Mine Warnings to Mariners No. 376":

German mine pilots may be obtained off Dungeness and 5 to 10 miles northwest of the Maas light vessel. Vessels leaving German ports may obtain mine pilots at Cuxhaven, Hamburg, and occasionally at Brunsbuettel.

Alterations in the marking of the mine-free channels in the North Sea and information regarding mines are transmitted by the German naval wireless station at Borkum every four hours, at 8 hours 0 minutes, 12 hours 0 minutes, etc. (Central European time), with a wave length of 600 meters. All merchant vessels are advised in the interests of safety to keep continuous wireless watch while navigating in the vicinity of the mined areas.

## AMENDMENT TO REGULATIONS.

Paragraph 9, page 50, amended October 1, 1920, to read:

Every ship station shall carry a reasonable number of spares of such parts of both the main and emergency radiotelegraph equipments as are subject to undue wear, deterioration, or liability to accident, and the tools required to make necessary repairs at sea.

## OPERATOR'S LICENSE SUSPENDED.

License No. 20023 issued at Norfolk, Va., February 10, 1920, has been suspended for a period of six months on account of the holder of the license violating Article VI of the service regulations and the international convention. The offending operator in this case caused superfluous signals to be transmitted.

## NEW BRITISH WIRELESS ACT.

Vessels of the United States on arriving on and after December 1, 1920, at ports of the United Kingdom will be subject to the provisions of the British wireless act 1919, so far as applicable. An operator holding a cargo grade license issued by this Government is qualified to be a watcher as specified in the regulations.

Following is the act and regulations thereunder:

## MERCHANT SHIPPING (WIRELESS TELEGRAPHY) ACT, 1919.

[An act to make further provision with respect to wireless telegraphy on ships, Aug. 15, 1919.]

1.—(1) Every seagoing British ship registered in the United Kingdom being a passenger steamer or a ship of sixteen hundred tons gross tonnage or upwards shall be provided with a wireless telegraph installation, and shall maintain a wireless telegraph service which shall be at least sufficient to comply with the rules made for the purpose under this Act, and shall be provided with one or more certified operators and watchers, at least in accordance with those rules:

Provided that the Board of Trade may exempt from the obligations imposed by this Act any ships or classes of ships if they are of opinion that, having regard to the nature of the voyages on which the ships are engaged, or other circumstances of the case, the provision of a wireless telegraph apparatus is unnecessary or unreasonable.

(2) The Board of Trade, in consultation with the Postmaster-General, shall make rules prescribing the nature of the wireless telegraph installation to be provided, of the services to be maintained, and the number, grade, and qualifications of operators and watchers to be carried:

Provided that no ship shall be required to carry more than one operator unless more than one operator would have been required under the provisions of the Merchant Shipping (Convention) Act, 1914.

(3) If this section is not complied with in the case of any ship, the master or owner of the ships shall be liable in respect of each offense to a fine not exceeding five hundred pounds, and any such offense may be prosecuted summarily, but, if the offense is prosecuted summarily, the fine shall not exceed one hundred pounds.

(4) A surveyor of ships or a wireless telegraphy inspector may inspect any ship for the purpose of seeing that she is properly provided with a wireless telegraph installation and certified operators and watchers in conformity with this Act, and for the purpose of that inspection shall have all the powers of a Board of Trade inspector under the Merchant Shipping Acts, 1894 to 1916.

If the said surveyor or inspector finds that the ship is not so provided, he shall give to the master or owner notice in writing pointing out the deficiency, and also pointing out what in his opinion is requisite to remedy the same.

Every notice so given shall be communicated in the manner directed by the Board of Trade to the chief officer of customs of any port at which the ship may seek to obtain a clearance or transire, and the ship shall be detained until a certificate under the hand of any such surveyor or inspector is produced to the effect that the ship is properly provided with wireless telegraph installation and certified operators and watchers in conformity with this Act.

(5) The obligations imposed by this Act shall not come into operation while the obligations with respect to wireless telegraphy on ships imposed by the Defense of the Realm Regulations remain in force, but shall be in addition to, and not in substitution for, the obligations as to wireless telegraphy imposed by the Wireless Telegraphy Act, 1904, or any Order in Council, or regulations made thereunder, or by the Merchant Shipping (Convention) Act, 1914.

2.—The foregoing provisions of this Act shall, as from a date three months after the coming into operation of the obligations imposed by this Act on British ships registered in the United Kingdom, apply to ships other than British ships registered in the United Kingdom while they are within any port in the United Kingdom in like manner as they apply to British ships so registered.

3.—(1) This Act may be cited as the Merchant Shipping (Wireless Telegraphy) Act, 1919, and the Merchant Shipping Acts, 1894 to 1916, and this Act may be cited together as the Merchant Acts, 1894 to 1919.

(2) This Act shall be construed as one with the Merchant Shipping Act, 1894, and "passenger steamer" shall mean a steamer which carries more than twelve passengers, and "wireless telegraphy inspector" means an officer appointed under section twenty of the Merchant Shipping (Convention) Act, 1914, for the purposes therein mentioned.

## BRITISH RADIO REGULATIONS.

Extracts from the rules of the Board of Trade under the provisions of the merchant shipping (wireless telegraphy) act, 1919, effective December 1, 1920, and applies to all seagoing passenger steamers or ships of 1,600 tons gross tonnage or upwards, while within any port in the United Kingdom.

## INTERPRETATION.

## 1. In these Rules—

The expression "coasting trade" means trade exclusively carried on between ports in the British Islands.

The number of hours occupied in a voyage from port to port means the normal number of hours occupied in a voyage between one port of call and the next.

## CLASSIFICATION OF SHIPS.

## 2. For the purposes of these Rules ships shall be classified as follows:

Class I. Ships carrying 200 persons or more which are not engaged in the coasting trade.

Class II. Ships not engaged in the coasting trade carrying 50 but less than 200 persons and ships engaged in the coasting trade carrying 50 persons or more.

Class III. Ships carrying less than 50 persons.

In reckoning the number of persons carried by a ship there shall be included the normal crew of the ship and the maximum number of passengers permitted to be carried by the passenger certificate of the ship.

## NATURE OF INSTALLATION.

3. The installation shall comply with the requirements of the International Radiotelegraph Convention, 1912, as modified by any other international agreement (and in particular the International Convention of Safety of Life at Sea, 1914), or of any international agreement by which the said Convention of 1912 may be superseded.

(I) A ship of Class I shall carry certificated operators in accordance with the following table, and while at sea a certificated operator shall be always on watch—

## NATURE OF VOYAGE.

## NUMBER AND GRADE OF OPERATORS.

(a) Voyage exceeding 48 hours from port to port.

Three operators, of whom one shall hold a first grade certificate, and not more than one a third grade certificate.

(b) Voyage exceeding 8 hours but not exceeding 48 hours from port to port.

Two operators of whom one shall hold a first or a second grade certificate.

(c) Voyage not exceeding 8 hours from port to port.

One operator who shall hold a first or a second grade certificate.

(II) A ship of Class II shall carry certificated operators and certificated watchers in accordance with the following table, and while at sea a certificated operator shall always be on watch at the times specified in the Schedule to these Rules, and either a certificated operator or a certificated watcher shall always be on watch at other times.

## NATURE OF VOYAGE.

## NUMBER AND GRADE OF OPERATORS AND WATCHERS.

(a) Voyage exceeding 48 hours from port to port.

One operator who shall hold a first or a second grade certificate, and two watchers.

(b) Voyage exceeding 8 hours but not exceeding 48 hours from port to port.

One operator who shall hold a first or a second grade certificate, and one watcher.

(c) Voyage not exceeding 8 hours from port to port.

One operator who shall hold a first or a second grade certificate.

(III) A ship of Class III shall carry one operator who shall hold a first or a second grade certificate, and while at sea the operator shall always be on watch at the times specified in the Schedule to these Rules.

\* \* \* \* \*

11. The Postmaster General may accept certificates granted to operators by the Government of any part of His Majesty's Dominions or of a foreign country in pursuance of the regulations annexed to any International Radiotelegraph Convention for the time being in force.

12. These rules shall come into operation on the 1st day of September, 1920.