

# RADIO SERVICE BULLETIN

ISSUED MONTHLY BY BUREAU OF NAVIGATION, DEPARTMENT OF COMMERCE

Washington, December 1, 1920—No. 44

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## DEPARTMENT OF COMMERCE,

U.S. BUREAU OF NAVIGATION (Dept of Commerce)  
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 30, 1920, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Station.	Call signal.	Wave lengths.	Service.	Hours.	Station controlled by—
East Hampton, N. Y.	WSA....	300,450,515,600	PG	N	Cutting & Washington Radio Corp.

<sup>1</sup> Loc., 0 72° 12' 33"; N. 40° 57' 28"; system, Cutting & Washington, 1000; range, 300; rates, 10¢ per word for ship service.

## 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 Berne bureau.]

Name of vessel.	Call signal.	Rates.		Service.	Hours.	Owner of vessel.	Station controlled by—
		North and South American service.	Trans-oceanic service.				
Algonquin <sup>1</sup> .....	KDKH.	Cents. 4	Cents. 4	PG	X	Standard Transportation Co.	R. C. of A.
A. L. Kent.....	KDLL.			PG	X	Crowell & Thurlow S. S. Co.	
Antonio.....	KDKI.			PG	X	McDougall-Duluth Shipbuilding Co.	
Artemis.....	KDLJ.				X	J. M. Scott.	Owner of vessel.
Blue Point.....	KDLU.				X	Atlantic Fisheries Co.	
Camden.....	KDKL.	8	8	PG		Atlantic Fruit Co.	T. R. T. Co.
Charlie Watson.....	KDJ.A.			PG	X	Standard Oil Co.	
Chaumont.....	KDLI.	4	4	PG	N	U. S. Shipping Board.	
Cuba.....	KDLK.			PG	N	John T. Phillips.	Cutting & Washington Radio Corp.
Dan F. Hanlon.....	KDKU.			PG	X	D. J. Hanlon.....	
Dinsmore.....	KDKN.	4	4	PG	X	U. S. Shipping Board.	
El Estero.....	KDKT.			PG	X	Southern Pacific Co.	
Franklin K. Lane.....	KDLH.			PG	X	Pan-American Petroleum & Transport Co.	
George Pierce.....	KDLT.	4	4	PG	X	U. S. Shipping Board.	
Henry S. Grove.....	KDLN.	4	4	PG	X	do.	
Herman Frasch.....	KDLW.			PG	X	Union Sulphur Co.	
Josefa.....	KDKJ.			PG	X	McDougall-Duluth Shipbuilding Co.	
Lake Gatun.....	KDKP.			PG	X	Saginaw Shipbuilding Co.	
Maracay.....	KDKO.					Caribbean Trading Co.	
Marne.....	KDLV.	4	4	PG	N	U. S. Shipping Board.	
Mary Luckenbach.....	KDLX.			PG	X	Luckenbach Terminals	
Minnekahda.....	KDKK.			PG	N	Atlantic Transport Co.	I. W. T. Co.
Natirar.....	KDKM.	4	4	PG	X	U. S. Shipping Board.	
Peacock.....	KDKY.	4	4	PG	X	do.	
Pearlton.....	KDLC.			PG	X	U. S. - Mex. Oil Corp.	
Reaper.....	KDLG.			PG	X	Texas S. S. Co.	
Retriever.....	KDKR.	4	4	PG	X	U. S. Shipping Board.	
Rodman Swift <sup>2</sup> .....	KDKQ.			PR	X	Submarine Signal Co.	Owner of vessel.
Salvor.....	KDKS.	4	4	PG	X	U. S. Shipping Board.	
Somme.....	KDKZ.	4	4	PG	N	do.	
Sugillenco.....	KDLS.			PG	X	Submarine Boat Corp.	
Sujameco.....	KDLF.			PG	X	do.	
Suwarinco.....	KDLL.			PG	X	do.	
Suwordenco.....	KDLE.			PG	X	do.	
Tuscaloosa City.....	KDLO.			PG	N	U. S. Steel Products Co.	
Wacoata.....	KDLM.	4	4	PG	X	U. S. Shipping Board.	
W. J. Hanna.....	KDKX.			PG	X	Standard Oil Co.	

<sup>1</sup> Range, 300; system, Marconi, 1000; w. l., 300,450,600.

<sup>2</sup> Range, 50; system, composite; w. l., 300,300,600.

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COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

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

Call signal.	Name.	Call signal.	Name.		
KDKH	Algonquin.....	b	KDLL	Suvarinco.....	b
KDKI	Antonlo.....	b	KDLE	Suwordenco.....	b
KDEJ	Josefa.....	b	KDLF	Sujameco.....	b
KDKK	Minnekahda.....	b	KDLG	Reaper.....	b
KDKL	Camden.....	b	KDLH	Franklin K. Lane.....	b
KDKM	Natirar.....	b	KDLI	Chaumont.....	b
KDKN	Dinsmore.....	b	KDLJ	Artemis.....	b
KDKO	Maracay.....	b	KDLK	Cuba.....	b
KDKP	Lake Gatun.....	b	KDLL	A. L. Kent.....	b
KDKQ	Rodman Swift.....	b	KDLM	Wacosta.....	b
KDKR	Retriever.....	b	KDLN	Henry S. Grove.....	b
KDKS	Salvor.....	b	KDLO	Tuscaloosa City.....	b
KDKT	El Estero.....	b	KDL8	Sugillenco.....	b
KDKU	Dan F. Hanlon.....	b	KDLT	George Pierce.....	b
KDKW	Argonne.....	b	KDLU	Blue Point.....	b
KDKX	W. J. Hanna.....	b	KDLV	Marne.....	b
KDKY	Peacock.....	b	KDLW	Herman Frasc.....	b
KDKZ	Somme.....	b	KDLX	Mary Luckenbach.....	b
KDLA	Charlie Watson.....	b	WSA	East Hampton, N. Y.....	c
KDLB	Creole State.....	b			
KDLC	Pearidon.....	b			

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—
Boston, Mass.....	WXH	U. S. Signal Corps.
Cullon, P. I.....	KDLQ	Philippine Insular Government.
Malita, P. I.....	KDLP	Do.
San Francisco, P. I.....	KDLR	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.
Amaranth.....	NAPT	Fahrenholt.....	NECK

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.		
KDLP	Malita, P. I.....	c	NAPT	Amaranth.....	b
KDLQ	Cullon, P. I.....	c	NECK	Fahrenholt.....	b
KDLR	San Francisco, P. I.....	c	WXH	Boston, Mass.....	c

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--
Baltimore, Md.....	3YH	Young Men's Christian Association Radio School.
Detroit, Mich.....	8YJ	George W. Carter.
Dubuque, Iowa.....	9ZB	Clifford W. Patch.
East Lansing, Mich.....	8YG	Michigan Agricultural College.
Highland Park, Mich.....	8ZZ	Clyde E. Darr.
Lansing, Mich.....	8XS	Wilcox Laboratories.
Mansfield, Mich.....	8ZR	Radio Club of Mansfield.
Morgantown, W. Va.....	8YH	West Virginia University.
Oxford, Ohio.....	8YR	Miami University.
Salt Lake City, Utah.....	6ZM	The Deseret News.
Schenectady, N. Y.....	2XI	General Electric Co.
St. Marys, Ohio.....	8ZL	Charles Candler.
Vancouver, Wash.....	7ZK	Vernon J. Bird.
West Lafayette, Ind.....	9YB	Purdue University.

SPECIAL LAND STATIONS GROUPED BY DISTRICTS.

Call signal.	District and station.	Call signal.	District and station.
2XI	Second district: Schenectady, N. Y.	8YH	Eighth district—Continued.
3YH	Third district: Baltimore, Md.	8YJ	Morgantown, W. Va.
6ZM	Sixth district: Salt Lake City, Utah.	8YR	Detroit, Mich.
7ZK	Seventh district: Vancouver, Wash.	8ZL	Oxford, Ohio.
8XS	Eighth district: Lansing, Mich.	8ZM	St. Marys, Ohio.
8YG	East Lansing, Mich.	8ZR	Mansfield, Mich.
		8ZZ	Highland Park, Mich.
		9YB	Ninth district: West Lafayette, Ind.
		9ZB	Dubuque, Iowa.

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 STATION.

[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.]

TUCKERTON, N. J.—W. I., 300, 600, 8000; service, PR.

## 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.]

AGYLLA.—W. I., 300, 450, 600.

AMERICAN STAR.—American Star Line owner of vessel.

APRX.—System, Kilbourne & Clark, 1000; w. I., 300, 425, 600; rates, all classes 4 c per word.

APUS.—Range, 200, system, I. W. T. Co., 1000; w. I., 300, 600; station operated and controlled by I. W. T. Co.

ASLAUG (KDFY).—Name changed to Winneconne.

ATENAS.—Range, 300; system, Wireless Specialty Apparatus Co.

BACCARAT.—Range, 150; system, Marconi, 1000; w. I., 300, 600; rates, North and South American service, 4 c per word; transoceanic, 4 c per word; and Great Lakes, 2 c per word.

BRUSH.—Range, 300; system, Navy-Liberty, 1000; w. I., 300, 450, 600; station operated and controlled by S. O. R. S.

CADARETTA.—System, Navy-Kilbourne & Clark.

CARIB (KUZX).—Range, 150; system, Kilbourne & Clark, 1000; w. I., 300, 425, 600.

CASIANA.—Range, 200; w. I., 300, 450, 600.

CHALMETTE.—Station operated and controlled by owner of vessel.

CHIPPEWA.—Range, 150; system, Marconi, 1000; w. I., 300, 600; rates, North and South American service, 4 c per word; transoceanic, 4 c per word; Great Lakes, 2 c per word; station operated and controlled by owner of vessel.

CLEMENT SMITH.—Calvert Navigation Co. owner of vessel.

COPPENAME.—Range, 350.

CREOLE.—Station operated and controlled by owner of vessel.

EASTERN ADMIRAL.—Correct call letters are KURM.

EASTERN SWORD.—Range, 200; system, Navy-Simon, 1000; w. I., 300, 450, 600; station operated and controlled by S. O. R. S.

EAGLE.—Range, 150; system, Marconi, 640; service, PG; hours, X; rates, all classes, 4 c per word; station operated and controlled by R. C. of A.

EL ALMIRANTE.—Station operated and controlled by owner of vessel.

EL CAPITAN.—Station operated and controlled by owner of vessel.

EL CID.—Station operated and controlled by owner of vessel.

EL MUNDO.—Station operated and controlled by owner of vessel.

EL NORTE.—Station operated and controlled by owner of vessel.

EL ORIENTE.—Station operated and controlled by owner of vessel.

EL RIO.—Station operated and controlled by owner of vessel.

EL SOL.—Station operated and controlled by owner of vessel.

EL SUD.—Station operated and controlled by owner of vessel.

EL VALLE.—Station operated and controlled by owner of vessel.

EXCELSIOR.—Station operated and controlled by owner of vessel.

FLORABA.—Range, 300; system, Cutting & Washington Radio Corp., 1000; w. I., 300, 450, 600; hours, X; rates, 4 c per word for all classes; station operated and controlled by I. W. T. Co.

FOREST KING.—Range, 300; system, Kilbourne & Clark, 1000; w. I., 300, 425, 600; hours, X; rates, all classes, 4 c per word; station operated and controlled by S. O. R. S.

R. S. GRIFFDU.—Range, 200; system, Kilbourne & Clark, 1000; w. I., 300, 425, 600.

HOBOKEN.—Range, 300; system, Kilbourne & Clark, 1000; w. I., 300, 440, 525, 600; Todd Shipbuilding Co. owner of vessel station operated and controlled by S. O. R. S.

IRIS.—Swayne & Hoyt owner of vessel.

JEPTHA.—Range, 300; system, Federal arc; w. I., 300, 600; hours, X; station operated and controlled by S. O. R. S.

FISH CANNERS No. 1.—Correct name, Van Camp No. 11; range, 150; system, Kilbourne & Clark, 1000; w. I., 300, 600; service, PG; hours, X; rates, all classes of service, 4 c per word; station operated and controlled by S. O. R. S.

I. L. REISS.—Minnesota Transit Co. owner of vessel.

- JUVIGNY.—Range, 150; system, Marconi, 1000; w. l., 300, 600; rates, North and South American, 4 c per word; transoceanic, 4 c per word; Great Lakes, 2 c per word; station operated and controlled by owner of vessel.
- LAKE FLOURNOY.—Range, 200; system, Navy, 1000; w. l., 300, 450, 600.
- LAKE HECTOR.—Range, 200; system, Navy-Marconi, 1000; w. l., 300, 450, 600.
- MERCER VICTORY.—System, Navy-Lowenstein.
- MOMUS.—Station operated and controlled by owner of vessel.
- MUNAMAR.—W. L., 300, 450, 600.
- NORA.—Grace S. S. Co. owner of vessel.
- NORTHLAND (WGJ).—Atlas S. S. Co. owner of vessel.
- OLD NORTH STATE.—Range, 300; system, Navy-Marconi, 1000; w. l., 300, 450, 600; station operated and controlled by R. C. of A.
- PERE MARQUETTE.—Range, 150; system, Marconi, 1000; w. l., 300, 600; service, PG.
- RICHARD PECK.—System, National, 260; w. l., 300, 450, 600.
- ROMAGNE.—Range, 150; system, Marconi, 1000; w. l., 300, 600; service, PG; hours, X; rates, North and South American service, 4 c per word; transoceanic, 4 c per word; Great Lakes, 2 c per word; station operated and controlled by owner of vessel.
- SAHALE.—System, Navy-Wireless Specialty Apparatus Co.
- SANTA RITA (WTG).—Range, 200; system, Marconi, 1000; w. l., 300, 450, 600; rates, 4 c per word for all classes of service; station operated and controlled by R. C. of A.
- SANTA VERONICA.—Range, 150; system, Marconi, 1000; w. l., 300, 600.
- SCHODACK.—System, Navy-Wireless Specialty Apparatus Co.
- SENECA.—Range, 150; system, Marconi, 1000; w. l., 300, 600; service, PG; hours, X; rates, North and South American service, 4 c per word; transoceanic, 4 c per word; Great Lakes, 2 c per word; station operated and controlled by owner of vessel.
- TOOPI.—Range, 150; system, Lowenstein, 1000; w. l., 300, 378, 450, 600.
- TOPILA.—Station operated and controlled by owner of vessel.
- TORRES.—Station operated and controlled by owner of vessel.
- TULADI.—Range, 300; system, Navy-Marconi, 1000; w. l., 300, 450, 600.
- WATERTOWN.—Hours, X.
- WEST CAMPGAW.—System, Navy-Marconi.
- WEST GROVE.—Range, 200; system, Navy-Kilbourne & Clark, 1000; w. l., 300, 450, 600.
- WEST ZULU.—System, Navy-Wireless Specialty Apparatus Co.
- YAQUINA.—W. l., 300, 450, 600.

**THE STATIONS OF THE FOLLOWING-NAMED VESSELS ARE OPERATED AND CONTROLLED BY THE CUTTING & WASHINGTON RADIO CORP.**

Barwick.	Philip Publicker.	Theodore F. Reynolds.
Hastnai.		

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

Charles H. Cramp.	Lake Gano.	Yapalaga.
Hartford.	Loki.	

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

Aquarius.	Hartford.	Lake Fernalda.
Barryton.	Ipswich.	Quinnipiac.
Catherine.	Isonomia.	Westmead.
E. C. Pope.	Kekoskee.	

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

Aeolus.	Bonnie Brook.	Janelaw.
Arcturus.	Colin H. Livingstone.	Jeptha.
Argosy.	Culberson.	Pagasset.
Ashburn.	Eastern Sword.	San Pasqual.
Barlow.	Glenora.	Syros.
Bayspring.	Hannawa.	West Carmona.

STRIKE OUT ALL PARTICULARS OF THE FOLLOWING-NAMED VESSELS:

Allanhurst.	Burnwood.	Idaho.
Argus.	Bushong.	Imufka.
Arvonis.	Buttonwood.	Kickapoo.
Ashburn.	Callooh.	Krakow.
Barabos.	Centralia.	Kusdeca.
Barias.	Cocopa.	Marquette & Bessemer
Bloomington.	Dalana.	No. 1.
Boughton.	Dancey.	Peçuta.
Bournville.	Dardora.	Puyallup.
Bowesmont.	Deva.	Sapelo.
Brentwood.	Fort Harrison.	Wasagya.
Burmout.	Fort Pierce.	Yainax.
Burnham.	Fort Snelling.	Zaca.

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

KDAK, *read* Van Camp No. II; KDFY, *read*, Winneconne. Strike out all particulars following the call signals, KEDS, KELT, KEPC, KERB, KEXC, KIBV, KICK, KJB, KLB, KOPN, KOVK, KPEE, KPPE, KPIE, KPUU, KQAU, KTEU, KTIA, KUVD, KVEO, WBEO, WCAI, WEW, WFIO, WGUO, WJH, WJUA, WKOÀ, WMOE, WNOA, WNOI, WNOO, WOO, WSAA, WSN, WXAE, WXAI, WZIE, WZII.

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.]

- AA-1.—*Read* T-1.
- AA-2.—*Read* T-2.
- AA-3.—*Read* T-3.
- S. P. 415 (Kemah).—Strike out all particulars.
- TALLAPOOSA.—Call letters NRV.

GOVERNMENT LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

NABB, *read* T-2; NABZ, *read* T-3; NAKQ, strike out all particulars; NEXC, *read* Keosanqua; NIGF, *read* Ingram, Osmond; NILB, *read* T-1.

SPECIAL LAND STATIONS, BY NAMES OF STATIONS.

- Auberry, Calif. (6XR).—Strike out all particulars.
- Elberon, N. J. (2XJ).—*Read* Deal Beach, N. J.
- Fresno, Calif.—Strike out all particulars.
- Houston, Tex.—Strike out all particulars.

MISCELLANEOUS.

ARTICLE XXIV OF THE INTERNATIONAL CONVENTION.

It has been reported to the Bureau that a great number of operators are not adhering to Article XXIV of the International Convention, consequently causing a great amount of interference which can be avoided. For the information of all concerned, the article is herewith reprinted.

## ARTICLE XXIV.

1. As a general rule, it shall be the shipboard station that calls the coastal station whether it has radiograms to transmit or not.

2. In waters where the radio traffic is very great (British Channel, etc.), a coastal station should not, as general rule, be called by a shipboard station unless the former is within normal range of the shipboard station and not until the distance of the vessel from the coastal station is less than 75 per cent of the normal range of the latter.

3. Before proceeding to call, the coastal station or the station on shipboard shall adjust its receiving apparatus to its maximum sensibility and make sure that no other correspondence is being carried on within its radius of action; if it finds otherwise, it shall wait for the first pause, unless it is convinced that its call will not be likely to disturb the correspondence in progress. The same applies in case the station desires to answer a call.

4. For calling, every station shall use the normal wave of the station it wishes to call. 5. If in spite of these precautions the transmission of a radiogram is impeded at any place, the call shall cease upon the first request from a coastal station open to public correspondence. The latter station shall in such case indicate the approximate length of time it will be necessary to wait.

6. The station on shipboard shall make known to every coastal station to which it has signaled its presence the moment at which it proposes to cease its operations and the probable duration of the interruption.

## SEAMEN'S CHURCH INSTITUTE FREE MEDICAL ADVICE.

The following notice has been received from the Seamen's Church Institute, New York City:

A limited commercial radio license, call "KDKF" has been issued to the Seamen's Church Institute of New York, 25 South Street, for the purpose of giving free medical advice to vessels at sea or at anchor in the harbor between the hours of 2 and 10 p. m., Greenwich mean time, daily, except Sunday.

That officers of vessels may become familiar with this service, they are invited to attend the free medical course of lectures given at the Navigation Marine Engineering and Radio School, 25 South Street, Wednesdays at 8 p. m., Fridays at 11 a. m., and 8 p. m. on the last Saturday of each month.

For further information apply to Capt. R. Huntington, principal, telephone Broad 297.

## OPENING AND CLOSING OF ALASKAN RADIO STATIONS.

Companies controlling Alaskan radio stations are requested to advise the radio inspector, 2301 L. C. Smith Building, Seattle, Wash., promptly the time of opening and closing of their stations in order that the signal office at Seattle may know when to accept messages destined for points in Alaska. It has been brought to the attention of the Bureau that a number of companies neglect to do so. For any further information regarding this subject apply to the radio inspector at Seattle.



**TIMES OF WATCH FOR AMERICAN SHIPS OWNED BY THE SHIPPING BOARD HAVING ONLY ONE RADIO OPERATOR.**

The following table showing the hours of watch for vessels of the Shipping Board having but one operator is herewith printed for the information of all concerned:

BULLETIN No. 66.

OCTOBER 12, 1920.

**SUBJECT: Hours of radio watches for ships having one radio operator.**

**TO MANAGING AGENTS AND MASTERS OF SHIPPING BOARD VESSELS:**

Masters of all Shipping Board vessels carrying only one radio operator shall require the operator to be on watch the hours specified below for each zone designated:

**TIMES OF WATCH FOR SHIPS HAVING ONLY ONE TELEGRAPHIST.**

Zones.	Western limit.	Eastern limit.	Times of watch, Greenwich mean time.
<b>A.</b> Eastern Atlantic, Mediterranean, North Sea, Baltic, Western Arctic Sea.	Meridian of 30° W., coast of Greenland.	Meridian of 30° E. to the south of the coast of Africa, eastern limit of Mediterranean, Black Sea, and of the Baltic, 30° E. to the north of coast of Norway.	From 8 h. to 10 h., 12 h. to 14 h., 16 h. to 18 h., 20 h. to 22 h.
<b>B.</b> Indian Ocean, Eastern Arctic Sea.	Eastern limit of zone A	Meridian of 90° E.....	From 0 h. to 2 h., 12 h. to 14 h., 16 h. to 18 h., 20 h. to 22 h.
<b>C.</b> China Sea, Western Pacific Ocean.	Eastern limit of zone B	Meridian of 160° E.....	From 0 h. to 2 h., 4 h. to 6 h., 12 h. to 14 h., 20 h. to 22 h.
<b>D.</b> Central Pacific Ocean...	Eastern limit of zone C.	Meridian of 140° W.....	From 0 h. to 2 h., 4 h. to 6 h., 8 h. to 10 h., 20 h. to 22 h.
<b>E.</b> Eastern Pacific Ocean..	Eastern limit of zone D.	Meridian of 70° W. south of the coast of America, west coast of America.	From 0 h. to 2 h., 4 h. to 6 h., 16 h. to 18 h., 20 h. to 22 h.
<b>F.</b> Western Atlantic Ocean and Gulf of Mexico.	Meridian 70° W. south of the coast of America, east coast of America.	Meridian of 30° W., coast of Greenland.	From 0 h. to 2 h., 12 h. to 14 h., 16 h. to 18 h., 20 h. to 22 h.

NOTE.—Time given is meridian of Greenwich, 0 hours being midnight.

**BRITISH RATES.**

The following information has been received from the Berne International Bureau, under Circular No. 104, October 21, 1920:

Referring to our circular letter No. 102, August 24, 1920, the British office informs us that in the aim of obtaining, as far as possible, a uniformity in fixing the telegraphic rate, the rates indicated in the nomenclature, Nos. 3 and 4, relative to the British coast stations, are now applicable only to British ships if these ships adopt the uniform rate of 0.15 franc per word, with a minimum of 1.50 francs per radiogram, respectively; 0.10 franc per word, with a minimum of 1 franc per radiogram.

The British office proposes to apply the same terms to the foreign ships, beginning 1st of January next. Consequently they beg us to give notice of this action to the administrations and to publish the changes they are to make in the official nomenclature of the radiotelegraphic stations. These modifications are:

*Great Britain.*—Add to note No. 3, relating to coast stations, the following paragraph: Beginning January 1, 1921, these reduced rates (coast charge and charge combined) are applicable only in the case where the shipboard charge does not exceed 0.15 franc per word, minimum 1 franc 50. In all other cases the rate to collect is that indicated in note No. 2.

Add to note No. 4, relating to British coast stations, the following paragraph: Beginning January 1, 1921, these reduced rates (coast charge and charge combined) are applicable only in the cases where charge on shipboard does not exceed 0.10 franc per word, minimum 1 franc. In all other cases the tax to be collected is that indicated in note No. 2.

#### SWEDISH RATES.

The Berne International Bureau advises this office under Circular No. 106 that the Swedish administration will, effective October 1, 1920, apply a tax over the telegraph lines of Sweden for radiograms originating in or destined to Sweden and exchanged directly with Swedish coast stations of 0.14 franc per word, with a minimum of 1.40 francs for ordinary radiograms, and 0.42 franc per word, with a minimum of 4.20 francs for urgent radiograms.

#### FLAMBOROUGH HEAD DIRECTION FINDING STATION.

The direction finding station at Flamborough Head, latitude 54° 07' N., longitude 0° 05' W., has been reopened.

#### NORMAL TIME REESTABLISHED.

Under Circular No. 107, the Berne International Bureau advises that the normal legal hour has been reestablished in the following-named countries:

Belgium, night of the 23d and 24th of October.

Bulgaria, October 2.

France, night of the 23d and 24th of October.

Portugal, night of the 14th and 15th of October.

#### NEW COUNTRIES ADMITTED TO THE LONDON CONVENTION.

China and Venezuela have adhered to the London Convention, under date of October 26, this year.

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