

# RADIO SERVICE BULLETIN

ISSUED MONTHLY BY BUREAU OF NAVIGATION, DEPARTMENT OF COMMERCE.

Washington, November 1, 1920—No. 43.

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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.

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## 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—
Daly, Alaska <sup>1</sup> .....	KDJT	300, 500, 600	PR	X	Alaska-Portland Packers, Association.
East Pittsburgh, Pa. <sup>2</sup> ..	KDKA	500, 3200	PR	.....	Westinghouse Electric & Manufacturing Co.
Ensenada, P. R. <sup>3</sup> .....	WPR	300, 600, 1800	PR	.....	South Porto Rico Sugar Co.
Ferris Oil Field, Wyo. <sup>4</sup>	KDIC	425	PR	X	General Petroleum Corporation of California.
New York, N. Y. <sup>5</sup> .....	KDKF	200, 300, 450, 600	PR	.....	Seamen's Church Institute.
Rawlins, Wyo. <sup>6</sup> .....	KDIB	425	PR	X	General Petroleum Corporation of California.
Siasconset, Mass. <sup>7</sup> .....	WSC	300, 450, 600	PG	X	International Radio Telegraph Co.
Warren, Alaska <sup>8</sup> .....	KDJU	300, 500, 600	PR	X	Alaska-Portland Packers, Association.

<sup>1</sup> Loc., 0 158° 32' 30", N. 58° 59' 00"; system, Marconi, 1000; range, 150.<sup>2</sup> Loc., 0 79° 50' 00", N. 40° 24' 00" (approximately); system, Westinghouse (vacuum valve); range, 300; hours, 8.30 a. m. to 5 p. m.<sup>3</sup> Loc., 0 66° 57' 00", N. 17° 59' 00"; system Marconi, 480; range, 150; hours, 5 a. m. to 12 noon, 1 p. m. to 10 p. m., rates, 6 cents per word.<sup>4</sup> Loc., 0 107° 14' 00", N. 42° 10' 00" (approximately); system, composite, 240; range, 200.<sup>5</sup> Loc., 0 74° 00' 35", N. 40° 42' 10" (approximately); system, Simon, 1000; range, 100; hours, 9 a. m. to 5 p. m. daily except Sunday.<sup>6</sup> Loc., 0 107° 10' 00", N. 41° 45' 00"; system, composite, 240, range, 200<sup>7</sup> Loc., 0 69° 58' 19", N. 41° 15' 50"; system, composite, 1000, range, 200; rate, 12 cents per word.<sup>8</sup> Loc., 0 158° 56' 00", N. 58° 42' 00"; system, Marconi, 1000, range, 150.

B. of J.

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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.				
		Cents.	Cents.				
A. A. Daugherty.....	KDIX.			PG	X	National Oil Transport Co.	
Argosy.....	KDHL.	4	4	PG	X	U. S. Shipping Board.	
Bibbeo.....	KDIIJ.	4	4	PG	X	do.	
Brush.....	KDHV.	4	4	PG	X	do.	
Cambrai.....	KDJN.	4	4	PG	N	do.	
Cayuga.....	KDJQ.			PG	X	Independent S. S. Co.	
Cedarhurst.....	KDIQ.	4	4	PG	X	U. S. Shipping Board..	
Chateau Thierry.....	KDKE.	4	4	PG	N	do.	
Chippewa.....	KDJS.			PG	X	Independent S. S. Co	
Colin H. Livingstone.	KDIN.	4	4	PG	X	U. S. Shipping Board..	
Cuprum.....	KDIJ.	4	4	PG		do.	
Dawn.....	KDHY.					William T. Donnelly.	
Eastern Leader <sup>1</sup> .....	KDHZ.	4	4	PG	X	U. S. Shipping Board..	S. O. R. S.
Eastern Sword.....	KDKB.	4	4	PG	X	do.	
Emergency Aid.....	KDKD.	4	4	PG	X	do.	
George E. Weed.....	KDIM.	4	4	PG	X	do.	
Griffdu.....	KDIL.					Universal S. S. Co.	
Hanley.....	KDIF.	4	4	PG	X	U. S. Shipping Board..	
Hopatcong.....	KDKC.	4	4	PG	X	do.	
India Arrow.....	KDHP.			PG	X	Standard Transportation Co.	
Japan Arrow.....	KDHO.			PG	X	do.	
Java Arrow.....	KDHQ.			PG	X	do.	
J. Fletcher Farrell.	KDHR.	4	4	PG	X	do.	R. C. of A.
Joseph Seep.....	KDJV.			PG	X	Standard Oil Co. of N. J.	
Kiowa.....	KDJP.			PG	X	Independent S. S. Co..	
Lilmae.....	KDHU.			PG	X	U. S.-Mex. Oil Corp.	
Medon.....	KDID.	4	4	PG	X	U. S. Shipping Board.	
Montgomery City.....	KDJZ.			PG	X	U. S. Steel Products Co.	
Narbo.....	KDIG.	4	4	PG	X	U. S. Shipping Board..	
Narcissus.....	KDIH.	4	4	PG	X	do.	
Natchez.....	KDJY.					Charles Ward Engineering Works.	
Oneida.....	KDJO.			PG	X	Independent S. S. Co.	
Onondaga.....	KDJR.			PG	X	do.	
Romagne.....	KDJX.			PG	X	do.	
Santa Veronica.....	KDHT.	4	4	PG	X	American & Cuban S. S. Line.	R. C. of A.
Seneca.....	KDJW.			PG	X	Independent S. S. Co.	
Steel Inventor.....	KDJL.			PG	N	U. S. Steel Products Co.	
St. Mihiel.....	KDHW.	4	4	PG	N	U. S. Shipping Board..	
Storm King.....	KDJM.	4	4	PG	X	do.	
Vaba.....	KDIP.	4	4	PG	X	do.	
West Cussetta.....	KDIK.	4	4	PG	X	do.	
William H. Doheny.	KDKG.						
Wm. Boyce Thompson.	KDHS.	4	4	PG			R. C. of A.
Yalza.....	KDJK.	4	4	PG	X	U. S. Shipping Board..	
Yapalaga.....	KDIK.	4	4	PG	X	do.	

Range, 200; system, Navy-Kilbourne & Clark, 1000; W. L., 300, 600.

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

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

Call signal.	Name.	Call signal.	Name.
KDHJ	Bibbco.....b	KDJK	Yalza.....b
KDHK	Yapalaga.....b	KDJL	Steel Inventor.....b
KDHL	Argosy.....b	KDJM	Storm King.....b
KDHO	Japan Arrow.....b	KDJN	Cambral.....b
KDHP	India Arrow.....b	KDJO	Oneida.....b
KDHQ	Java Arrow.....b	KDJP	Kiowa.....b
KDHR	J. Fletcher Farrell.....b	KDJQ	Cayuga.....b
KDHS	Wm. Boyce Thompson.....b	KDJR	Onondaga.....b
KDHT	Santa Veronica.....b	KDJS	Chippewa.....b
KDHU	Lilmae.....b	KDJT	Daly, Alaska.....c
KDHV	Brush.....b	KDJU	Warren, Alaska.....c
KDHW	St. Mihiel.....b	KDJV	Joseph Seep.....b
KDHX	A. A. Daugherty.....b	KDJW	Seneca.....b
KDHY	Eastern Leader.....b	KDJX	Romagne.....b
KDHZ	Dawn.....b	KDJY	Natchez.....b
		KDJZ	Montgomery City.....b
KDIB	Rawlins, Wyo.....c	KDKA	East Pittsburgh, Pa.....c
KDIC	Ferris Oil Field, Wyo.....c	KDKB	Eastern Sword.....b
KDID	Medon.....b	KDKC	Ifoatcong.....b
KDIF	Hanley.....b	KDKD	Emergency Aid.....b
KDIG	Narbo.....b	KDKE	Chateau Thierry.....b
KDIH	Narcissus.....b	KDKF	New York, N. Y.....c
KDIJ	Cuprum.....b	KDKG	William H. Doheny.....b
KDIK	West Cussetta.....b	WPR	Ensenada, P. R.....c
KDIL	Griffdu.....b	WSC	Siasconsett, Mass.....c
KDIM	George E. Weed.....b		
KDIN	Colin H. Livingstone.....b		
KDIP	Vaba.....b		
KDIQ	Cedarhurst.....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—
North Platte, Nebr. <sup>1</sup> .....	KDHM	Post Office Department.
Rock Springs, Wyo. <sup>1</sup> .....	KDHN	Do.

<sup>1</sup> Air-mail stations.

## 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—
Alderson, W. Va.....	8YF	Camp Greenbrier.
Atlanta, Ga.....	4YA	Georgia School of Technology.
Cleveland, Ohio.....	8ZP	Edward I. Deighan.
Hampton, N. H.....	1XY	DeLancey Felch & Co.
New Haven, Conn.....	1XH	Yale University.
New York, N. Y. <sup>1</sup> .....	2XN	College of the City of New York.
Philadelphia, Pa. <sup>1</sup> .....	3XC	Frank B. Chambers.
Ridgway, Pa.....	8XO	Pittsburgh Wireless Equipment Co.
St. Davids Pa. <sup>1</sup> .....	3ZS	Charles H. Stewart.
University, Va.....	3YV	University of Virginia.

<sup>1</sup> Omitted from List of Commercial and Government Stations, edition June 30, 1920.

SPECIAL LAND STATIONS, GROUPED BY DISTRICTS.

Call signal.	District and station.	Call signal.	District and station.
1XH 1XY 2XN	First district: New Haven, Conn. Hampton, N. H. Second district: New York, N. Y. <sup>1</sup> Third district: Philadelphia, Pa. <sup>1</sup> University, Va. St. Davids, Pa. <sup>1</sup>	4YA 8XO 8YF 8ZP	Fourth district: Atlanta, Ga. Eighth district: Ridgway, Pa. Alderson, W. Va. Cleveland, Ohio.

<sup>1</sup> Omitted from List of Commercial and Government Stations, edition June 30, 1920.

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.
- Corpn. =Corporation.
- & =And.

ALTERATIONS AND CORRECTIONS.

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 30, 1920, and to the International List of Radiotelegraph Stations, published by the Berne bureau.]

- ALASKA.—W. L., 300, 450, 525, 600.
- ALLAGUASH.—Station operated and controlled by owner of vessel.
- ARYAN.—Texas Co. owner of vessel.
- AUSABLE.—Station operated and controlled by owner of vessel.
- BASSWOOD.—Name changed to George C. Greer.
- BASTROP.—Name changed to Standtug No. 1.
- CAPITAL OF NEBRASKA.—W. L., 300, 450, 600; station operated and controlled by R. C. of A.

- CARDONIA.—Range, 300; system, Navy-Wireless Specialty Apparatus Co., 1000; W. L., 300, 450, 600.
- CARENCO.—W. L., 300, 450, 600.
- CATHERINE D. (KMAI).—Hours, N.
- COCONINO.—System, Navy-Kilbourne & Clark, 1000.
- EAST CHICAGO.—Range, 300; system, Navy-Marconi, 1000.
- EASTERN SOLDIER.—W. L., 300, 450, 600.
- EASTERN TEMPLE.—W. L., 300, 450, 600.
- EGERIA.—System, Kilbourne & Clark, 1000; W. L., 300, 600; station operated and controlled by S. O. R. S.
- ELMAC.—W. L., 300, 450, 600.
- ELMSPORT.—System, Navy-Liberty, 1000.
- ENGLEWOOD.—Range, 300; system, Navy-Marconi, 1000; station operated and controlled by S. O. R. S.
- FORT PITT BRIDGE.—W. L., 300, 450, 600.
- G. A. FLAGG.—W. L., 300, 450, 600; rates, North and South American service, 4 cents per word.
- GONZABA.—W. L., 300, 450, 600; hours, N; rates, North and South American service, 4 cents per word.
- GRIFFCO.—Range, 200; system, Kilbourne & Clark, 1000; W. L., 300, 425, 600; station operated and controlled by S. O. R. S.
- HAYNIE.—Range, 300; system, Federal arc; W. L., 300, 600.
- HOLLYWOOD (KDCS).—W. L., 300, 450, 600.
- HOUSTON.—System, Navy-Lowenstein, 1000; W. L., 300, 450, 600.
- HUTCHINSON.—W. L., 300, 450, 600.
- IROQUOIS.—Chicago & South Haven S. S. Co. owner of vessel.
- JUNIATA (WCB).—W. L., 300, 450, 600.
- KARINA.—Name changed to Undaunted.
- KITCHI.—W. L., 300, 450, 600.
- LACKAWANNA VALLEY.—W. L., 300, 450, 600.
- LA CROSSE.—Range, 200; system, Navy, 1000; W. L., 300, 450, 600.
- LAKE ARTHUR.—Hours, X.
- LAKE DUNMORE.—System, Kilbourne & Clark, 1000; W. L., 300, 450, 600.
- LAKE ELLSBURY.—W. L., 300, 450, 600.
- LAKE ELMDALE.—Range, 200; system, Navy-Marconi, 1000; W. L., 300, 450, 600.
- LAKE FLORIS.—W. L., 300, 450, 600.
- LAKE GALISTEO.—W. L., 300, 450, 600.
- LAKE HARESTI.—W. L., 300, 450, 600.
- LAKE IKATAN.—W. L., 300, 450, 600.
- LAKE RUSHVILLE.—Name changed to Rushville.
- LAKE SABA.—System, Navy-Marconi.
- LORRAINE CROSS.—W. L., 300, 450, 600.
- MADDEQUET.—Range, 300; system, Fessenden, 1000; W. L., 300, 450, 600.
- MANITOWOC.—Station operated and controlled by owner of vessel.
- MEMONINEE.—W. L., 300, 450, 600.
- MEVANIA.—W. L., 300, 600, 1800.
- M. MITCHELL DAVIS.—Correct name M. M. Davis.
- MOBILE CITY.—W. L., 300, 450, 600; station operated and controlled by R. C. of A.
- MOSELLA.—System, Federal arc; W. L., 300, 600, 1800.
- MUSKEGON.—Station operated and controlled by owner of vessel.
- MYSTERY.—Name changed to Thorobred.
- PANHANDLE STATE.—W. L., 300, 450, 600.
- PATRICK HENRY.—W. L., 300, 450, 600; station operated and controlled by R. C. of A.
- POINT JUDITH.—Station operated and controlled by F. T. Co.
- POINT LOBOS.—Station operated and controlled by F. T. Co.
- PRESIDENT.—W. L., 300, 450, 600.
- QUANTICO.—Hours, X.
- RED HOOK.—W. L., 300, 450, 525, 600; service, PR; hours, X; Todd Shipbuilding Co. owner of vessel; station operated and controlled by S. O. R. S.
- RED MOUNTAIN.—W. L., 300, 450, 600.
- REMLIK.—Correct name Remlik III.
- RIPON.—W. L., 300, 450, 600; station operated and controlled by S. O. R. S.
- ROBIN HOOD.—Range, 300; W. L., 300, 440, 525, 600; Seas Shipping Corporation owner of vessel.
- SAGUA.—Hours, N.
- SALINA.—W. L., 300, 450, 600.

- SALINAS.—W. L., 300, 450, 600.  
 SAN JOSE (WWL).—Range, 200; system, Kilbourne & Clark, 1000.  
 SAN JUAN (WWM).—Range, 200; system, Kilbourne & Clark, 1000.  
 SHENANDOAH.—Texas Co. owner of vessel.  
 SIOUX CITY.—W. L., 300, 450, 600.  
 SOUTH AMERICAN.—Station operated and controlled by I. W. T. Co.  
 STOCKTON.—Range, 300; system, Federal arc; W. L., 300, 600.  
 SUDURCO.—W. L., 300, 450, 600; station operated and controlled by Transmarine Corporation.  
 SUTERMCO.—W. L., 300, 450, 600; station operated and controlled by Transmarine Corporation.  
 VALDEZ.—Rates, all services 4 cents per word.  
 WAUBESA.—Range, 300; system, Navy-Lowenstein; W. L., 300, 450, 600; hours, X.  
 WAUWATOSA.—W. L., 300, 450, 600.  
 WEST CANON.—Range, 300; system, Federal arc.  
 WESTERN MAID.—W. L., 300, 450, 600.  
 WESTERN QUEEN.—W. L., 300, 600.  
 WEST HIMROD.—W. L., 300, 600.  
 WEST KEDRON.—System, Navy-Simon, 1000; W. L., 300, 450, 600.  
 WEST WAUNA.—W. L., 300, 450, 600; hours, X.

The following-named vessels have had their call letters changed as shown opposite their names:

Ardena . . . . .	KDJA	Lake Superior . . . . .	KDIT
Chetopa . . . . .	KDJI	Lake Traverse . . . . .	KDJD
Fort George . . . . .	KDJB	Lakeview . . . . .	KDIX
Lake Bridge . . . . .	KDIS	Lake Weir . . . . .	KDIW
Lake Dunmore . . . . .	KDIY	Lakewood . . . . .	KDJC
Lake George . . . . .	KDIZ	Nipsic . . . . .	KDJJ
Lake Ontario . . . . .	KDIR	Vittorio Emmanuele III. . . . .	KDJF
Lake Shore . . . . .	KDIV	Westboro . . . . .	KDJH
Lake Stirling . . . . .	KDJE	Westmount . . . . .	KDJG

The stations of the following-named vessels are operated and controlled by the Radio Corporation of America:

Admiral Dewey.	H. M. Whitney.	Santa Isabel.
Admiral Evans.	Houston.	Santa Malta.
Admiral Farragut.	Ice King.	Socony.
Admiral Goodrich.	I. C. White.	Steel Engineer.
Admiral Mayo.	Independence Hall.	Steel Exporter.
Admiral Nicholson.	Intrepid.	Steel Mariner.
Admiral Schley.	Iris.	Steel Ranger.
Admiral Sebree.	Kiron.	Steel Worker.
Admiral Watson.	Kolda.	Suboatco.
Bremerton.	Lake Frances.	Suedco.
City of Everett.	Liberty Land.	Suelco.
Clement Smith.	Mazatlan.	Suportco.
Democracy.	Montpelier.	Susquehanna (KOLN).
E. L. Doheny, Third.	Nora.	Susquehanna (WEM).
Elisha Walker.	Pulaski.	Sutransco.
Ensley City.	Rayo.	Tunica.
Gateway City.	Redondo.	Wabash.
Halo.	Reginolite.	Wotan.

The stations of the following-named vessels are operated and controlled by the Ship Owners Radio Service (Inc.):

Betsy Bell.	Heber.	Pachet.
Bidwell.	Hybert.	Provincetown.
Cassimir.	Jalapa.	Stockton.
E. A. Morse.	Lavada.	Toopi Toopi.
Eastern Trader.	Mursa.	West Canon.
Halway.		

The stations of the following-named vessels are operated and controlled by the Independent Wireless Telegraph Co.:

Cowardin.	John Stevens.	Sawokla.
Fort Logan.	North American.	Senator Bailey.
Gulfstar.	Robert P. Clark.	Shenango.
Harvester.		

Strike out all particulars of the following-named vessels:

Apache.	Chelan.	Northwestern.
Aramis.	Chimo.	Petunia.
Bosworth.	Council Bluffs.	Samuel Faunce.
Burnside.	Finback.	Speedwell.
California.	Inco No. 1.	West Arvada.
Canaveral.	Kingfisher.	Woudrichem.

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

KDAG, *read* M. M. Davis; KOQL, *read* George C. Greer; KOQM, *read* Standtug No. 1; KUDS, *read* Rushville; KYR, *read* Undaunted; KYZ, *read* Thorobred; KZR, *read* Remlik III. Strike out all particulars following the call signals, KEMQ, KGIU, KKOO, KLZ, KMAO, KOQN, KQOU, KQV, KUO, KVIE, KYQ, KYY, WCAU, WDZ, WGIU, WQA, WTEA, WVOA. The following call signals have been changed: KBAA, *read* KDIR; KBAI, *read* KDIS; KBAO, *read* KDIT; KBAU, *read* KDIV; KBEA, *read* KDIW; KBEE, *read* KDIX; KBEI, *read* KDIY; KBEO, *read* KDIZ; KBEU, *read* KDJA; KBIA, *read* KDJB; KBOO, *read* KDJC; KBUA, *read* KDJD; KBUE, *read* KDJE; KBUI, *read* KDJF; KBUO, *read* KDJG; KBUU, *read* KDJH; KCAE, *read* KDJI; KCOE, *read* KDJJ.

#### GOVERNMENT SHIP STATION, ALPHABETICALLY BY NAME OF VESSEL.

[Alteration and correction to be made to the List of Radio Stations of the United States, edition of June 30, 1920.]

NRI, *read* Itasca.

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

Cleveland, Ohio (8XF).—Strike out all particulars.  
 Kingston, R. I. (1YA).—Strike out all particulars.  
 Springfield, Mass. (1ZK).—Strike out all particulars.



TIMES OF WATCH FOR BRITISH SHIPS REQUIRED TO CARRY ONE OR TWO OPERATORS.

Zones.	Western limit.	Eastern limit.	Times of watch for one operator, Greenwich mean time.	Times of watch for two operators, Greenwich mean time.
A. 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.	From 0 h. to 6 h., 8 h. to 14 h., 16 h. to 18 h., 20 h. to 22 h.
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.	From 0 h. to 2 h., 4 h. to 10 h., 12 h. to 14 h., 16 h. to 18 h., 20 h. to 24 h.
C. 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.	From 0 h. to 6 h., 8 h. to 10 h., 12 h. to 14 h., 16 h. to 22 h.
D. 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.	From 0 h. to 2 h., 4 h. to 6 h., 8 h. to 10 h., 12 h. to 18 h., 20 h. to 24 h.
E. 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.	From 0 h. to 2 h., 4 h. to 6 h., 8 h. to 14 h., 16 h. to 22 h.
F. Western Atlantic Ocean and Gulf of Mexico.	Meridian of 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.	From 0 h. to 2 h., 4 h. to 10 h., 12 h. to 18 h., 20 h. to 22 h.

NEW LIST OF RADIO STATIONS OF THE UNITED STATES.

The list of "Commercial and Government Radio Stations of the United States," edition June 30, 1920, and the list of "Amateur Radio Stations of the United States," edition June 30, 1920, are now ready for distribution. These publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., for the sum of 15 cents each.

RATE FOR CAPE MAY (N. J.) STATION.

The International Radio Telegraph Co. has been authorized to charge 10 cents per word for traffic at their Cape May (N. J.) station (WCY) effective December 1, this year.

## AMENDMENTS TO REGULATIONS.

Paragraph 111, page 62, amended November 1, 1920, to read:

The examination will be conducted so as to determine the following facts: (a) That the applicant is sufficiently familiar with the Continental Morse Code to recognize the distress signal (S O S) when included in a list of other words or signals sent slowly (approximately *ten* words a minute); (b) that the applicant is sufficiently familiar with the Continental Morse Code to recognize radio call letters of the vessel on which he desires to operate when sent slowly and repeated several times; (c) that the applicant is sufficiently familiar with the type of the receiving apparatus of the vessel on which he desires to operate to determine by a buzzer or similar test that the detector or receiving apparatus is properly adjusted to receive signals.

## ARTICLES 35 AND 46 OF THE INTERNATIONAL CONVENTION.

Attention is invited to articles 35 and 46 of the International Convention as the Bureau has received a number of reports of violations of these regulations. The articles are herewith quoted for the information of all concerned:

## ARTICLE XXXV.

1. In general, the shipboard stations shall transmit their radiograms to the nearest coastal station.

Nevertheless, if a shipboard station has the choice between several coastal stations at equal or nearly equal distances, it shall give the preference to the one established on the territory of the country of destination or normal transit for its radiograms.

2. A sender on board a vessel shall, however, have the right to designate the coastal station through which he desires to have his radiogram transmitted. The station on shipboard shall then wait until such coastal station shall be the nearest.

In exceptional cases transmission may be made to a more distant coastal station, provided that:

(a) The radiogram is intended for the country in which such coastal station is situated and emanates from a ship subject to that country;

(b) Both stations use for calling and transmission a wave length of 1,800 meters;

(c) Transmission with this wave length does not interfere with a transmission made by means of the same wave length by a nearer coastal station;

(d) The station on shipboard is more than 50 nautical miles distant from any coastal station given in the list. The distance of 50 miles may be reduced to 25 miles provided the maximum power at the terminals of the generator does not exceed 5 kilowatts and that the stations on shipboard are established in conformity with Articles VII and VIII. This reduction in the distance shall not be admissible in the seas, bays, or gulfs of which the shores belong to one country only and of which the opening to the high sea is less than 100 miles wide.

## ARTICLE XLVI.

The exchange of correspondence between shipboard stations shall be carried on in such a manner as not to interfere with the service of the coastal stations, the latter as a general rule, being accorded the right of priority for the public service.

## CHANGE OF TIME FOR BROADCASTING METEOROLOGICAL INFORMATION FROM POINT ISABEL, TEX.

The Naval Communication Service advises that "the time for the broadcasting of meteorological information by the Navy radio station Point Isabel has been changed from 11 p. m., 75th meridian time, to 12 midnight, 75th meridian time."

## OPERATOR'S LICENSE SUSPENDED.

License No. 20611, issued at New York, January 15, 1920, has been suspended for a period of six months on account of the holder of the license violating several articles of the International Convention and the service regulations.

## RATE FOR DIRECTION BEARINGS FROM FRENCH STATIONS.

Effective December 1, this year, bearings received from French direction finding stations will be charged for at the rate of 6 francs. The French Government does not assume any responsibility for the accuracy of bearings. The accounts will be handled in the same manner as radio messages.

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