

# RADIO SERVICE BULLETIN

ISSUED MONTHLY BY BUREAU OF NAVIGATION, DEPARTMENT OF COMMERCE

Washington, February 1, 1921—No. 46

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## 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.

## 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—
Bakersfield, Calif. <sup>1</sup> ...	KDNT..	425	PR	X	San Joaquin Light & Power Corp.
Fresno, Calif. <sup>2</sup> .....	KDNU..	425	PR	X	Do.
Seattle, Wash. <sup>3</sup> .....	KDOG..	300, 600	PG	N	Puget Sound Wireless Telegraph Co.

<sup>1</sup> Loc., 0 118° 50' 00", N. 35° 20' 00" (approximately); system, composite, 500; range, 125; rates, none.

<sup>2</sup> Loc., 0 119° 49' 00", N. 36° 43' 00" (approximately); system, composite, 500; range, 125; rates, none.

<sup>3</sup> Loc., 0 122° 22' 12", N. 47° 39' 06"; system, composite, 750; range, 200; rates, ship service 6c per word.

## 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.				
Agwilake.....	KDNN			PG	X	Atlantic, Gulf & West Indies S. S. Lines.	I. W. T. Co.
Aisne.....	KDNC	4	4	PG	N	U. S. Shipping Board.	
Ala.....	KDOB	4	4	PG	X	do.	
Albert E. Watts.....	KDOK			PG	X	Sinclair Navigation Co.	
Annapolis.....	KDOM					City of Baltimore.....	Owner of vessel.
Astrea.....	KDOP	4	4	PG	X	Davidson Chemical Co.	R. C. of A.
Bells.....	WAX						Do.
Bessemer City.....	KDOF	4	4	PG	N	U. S. Steel Products Co.	
Cebu.....	KDOC					Compania Maritima...	
City of Brunswick.....	KDNP	4	4	PG	X	U. S. Shipping Board.	
City of Dalhart.....	KDNQ	4	4	PG	X	do.	
Crampton Anderson.....	KDOH			PG	X	Pan-American Petroleum & Transport Co.	
Dewey.....	KDNF			PG	X	Andrew Olsen.....	
Durham.....	KDNL			PG	X	France & Canada Oil Transport Co.	
El Isleo.....	KDNA			PG	X	Southern Pacific Co....	
El Lago.....	KDNW			PG	X	do.	
Favorite.....	KDNY						
F. C. Latrobe.....	KDOL					City of Baltimore.....	
Gorgona.....	KDNZ						
Gulfking.....	KDNO			PG	X	Gulf Refining Co.....	
Hawkeye State.....	KDNV	4	4	PG	N	U. S. Shipping Board..	
Kingfisher.....	KDNJ			PG	X	Independent Oil Transportation Co.	
Lake Miraflores.....	KDNR	4	4	PG	X	U. S. Shipping Board..	
Livingstone Roe.....	KDOD			PG	X	Standard Oil Co of N.J.	
M. F. Elliott.....	KDNK			PG	X	Standard Oil Co.....	
Naamhok.....	KDNE	4	4	PG	X	U. S. Shipping Board..	
Quinsault.....	KDND			PG	X	W. H. Wood.....	
Richmond.....	KDOQ			PG	X	Aiken Towboat Co....	
Sea Lion.....	KDOJ						
Stonewall.....	KDOV			PG	X	Garland S. S. Corp....	
Suzerjeyeo.....	KDNH	4	4	PG	X	Submarine Boat Corp.	Transmarine Corp.
Sunewarkco.....	KDNI	4	4	PG	X	do.	Do.
Sunugentco.....	KDNX	4	4	PG	X	do.	Do.
Swift Arrow.....	KDOS	4	4	PG	X	U. S. Shipping Board..	
Swiftsure.....	KDNG	4	4	PG	X	do.	
Thomas H. Wheeler.....	KDOR						
Tours.....	KDNB	4	4	PG	N	U. S. Shipping Board..	
Volant.....	KDON	4	4	PG	X	Davidson Chemical Co..	R. C. of A.
Wenatchee.....	KDOT	4	4	PG	N	U. S. Shipping Board..	
Wisdom II.....	KDNM					E. A. Salisbury.....	
Yorba Linda.....	KDNS			PG	X	General Petroleum Corp.	

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

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

Call signal.	Name.	Call signal.	Name.
KDNA	El Isleo.....b	KDNW	El Lago.....b
KDNB	Tours.....b	KDNX	Sunugentco.....b
KDNC	Aisne.....b	KDNY	Favorite.....b
KDND	Quinsault.....b	KDNZ	Gorgona.....b
KDNE	Naamhok.....b	KDOB	Ala.....b
KDNF	Dewey.....b	DKOC	Cebu.....b
KDNG	Swiftsure.....b	KDOD	Livingstone Roe.....b
KDNH	Su Jerseyco.....b	KDOF	Bessemer City.....b
KDNI	Sunewarkco.....b	KDOG	Seattle, Wash.....c
KDNJ	Kingfisher.....b	KDOH	Crampton Anderson.....b
KDNK	M. F. Elliott.....b	KDOJ	Sea Lion.....b
KDNL	Durham.....b	KDOK	Albert E. Watts.....b
KDNM	Wisdom II.....b	KDOL	F. C. Latrobe.....b
KDNN	Agwilake.....b	KDOM	Annapolis.....b
KDNO	Gulfking.....b	KDON	Volant.....b
KDNP	City of Dalhart.....b	KDOP	Astrea.....b
KDNQ	City of Brunswick.....b	KDOQ	Richmond.....b
KDNR	Lake Miraflores.....b	KDOR	Thomas H. Wheeler.....b
KDNS	Yorba Linda.....b	KDOS	Swift Arrow.....b
KDNT	Bakersfield, Calif.....c	KDOT	Wenatchee.....b
KDNU	Fresno, Calif.....c	KDOV	Stonewall.....b
KDNV	Hawkeye State.....b	WAX	Bella.....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—
Cape Elizabeth, Me.....	NAB	U. S. Navy.
Eagle Harbor, Mich.....	NUG	Do.
Empire, Oreg.....	NPF	Do.
Grand Marais, Mich.....	NZT	Do.
Imperial Beach, Calif.....	NPL	Do.
Ocean Park, Wash.....	NPE	Do.
Point Loma, Calif.....	NPL	Do.
Poyners Hill, N. C.....	NCZ	Do.
Slip Point, Wash.....	NPD	Do.
Surfside, Mass.....	NBS	Do.
Thunder Bay Island, Mich.....	NSM	Do.
Whitefish Point, Mich.....	NZT	Do.

All of the above are radio compass stations and work continuously on 800 meters.

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.
NAB	Cape Elizabeth, Me.....c	(NPL	Imperial Beach, Calif.....c
NBS	Surfside, Mass.....c	(NPL	Point Loma, Calif.....c
NCZ	Poyners Hill, N. C.....c	NSM	Thunder Bay Island, Mich.....c
NPD	Slip Point, Wash.....c	NUG	Eagle Harbor, Mich.....c
NPE	Ocean Park, Wash.....c	(NZT	Grand Marais, Mich.....c
NPF	Empire, Oreg.....c	(NZT	Whitefish Point, Mich.....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—
Atlanta, Ga.....	4YJ	Knights of Columbus School.
Belleville, Ill.....	9XX	Chas. B. Harrison.
Burlingame, Calif.....	6ZR	Hall Berringer.
Collegeville, Minn.....	9XT	St. Johns University.
Galesburg, Ill.....	9XW	Lombard College.
Medford, Mass.....	1XE	American Radio and Research Corp.
Parkersburg, Pa.....	3ZO	Horace A. Beale, jr.
Princeton, N. J.....	3XM	David Richardson.
Reno, Nev.....	6ZO	Hadley S. Beedle.
Urbana, Ill.....	9XZ	Paul G. Busey.

## SPECIAL LAND STATIONS GROUPED BY DISTRICTS.

Call signal.	District and station.	Call signal.	District and station.
1XE	First district: Medford, Mass.	6ZO	Sixth district: Reno, Nev.
3XM	Third district: Princeton, N. J.	6ZR	Burlingame, Calif.
3ZO	Fourth district: Parkersburg, Pa.	9XT	Ninth district: Collegeville, Minn.
4YJ	Atlanta, Ga.	9XW	Galesburg, Ill.
		9XX	Belleville, Ill.
		9XZ	Urbana, Ill.

## 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.]

Butte, Mont.—Montana Power Co. owner of station.

Great Falls, Mont.—Read Rainbow, Mont. (near Great Falls).

New London, Conn.—Range, 150-300; system, composite, 480 and Elwell arc; w. l., 300, 600, 1800.

Seattle, Wash. (KPE).—Range, 300; w. l., 300, 450, 550, 600; service, PR; rates, ship service free.

Siasconset, Mass.—Range, 300.

## 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.]

A. L. KENT.—Range, 300; system, Simon, 1000; w. l., 300, 600; rates, 4c. per word for all classes of service; station operated and controlled by owner of vessel.

ANTHRACITE BRIDGE.—Range, 300; system, Navy-Marconi, 1000; w. l., 300, 600.

BIBCO.—Range, 300; system, Navy, 1000; w. l., 300, 450, 600.

BRAZOS.—Name changed to SAN LORENZO.

CITY OF FORT WORTH.—Range, 300; system, Navy-Lowenstein, 1000; w. l., 300, 600.

CITY OF MIAMI.—Range, 300; system, Wireless Specialty Apparatus Co., 1000; hours, N; 4c. per word for all classes of service.

COMMONWEALTH.—Hours, X.

- DE KALB.—Name changed to MOUNT CLAY. American Ship & Commerce Navigation Corp., owner of vessel.
- EASTPORT.—System, Navy-Marconi; w. l., 300, 450, 600.
- ESTRADA PALMA.—Florida East Coast Car Ferry Co., owner of vessel.
- EXCELSIOR.—W. l., 300, 600.
- EVERETT.—Range 200; system, Gray & Danielson, 240; w. l., 300, 600; hours, X; rates, North and South American service, 4c. per word; transoceanic, 8c. per word; station operated and controlled by owner of vessel.
- FRANK H. BUCK.—Range, 300.
- FRED BAXTER.—Range, 200; system, Gray & Danielson, 240.
- GUARDSMAN.—System, Navy-Simon.
- HAXTUM.—Range, 300; system, Marconi, 1000; w. l., 300, 450, 600.
- HAYDEN.—Range, 300; system, Navy-Marconi, 1000; w. l., 300, 450, 600.
- HOMER.—Range, 200; system, Gray & Danielson, 240; w. l., 300, 600; hours, X; rates, North and South American service, 4c. per word; transoceanic, 8c. per word; station operated and controlled by owner of vessel.
- HYBERT.—Range, 300; system, Navy-Marconi, 1000; w. l., 300, 600.
- I. C. WHITE.—Range, 300; system, Marconi, 1000; w. l., 300, 600; rates, 4c. per word for all classes of service.
- INNOKO.—Range, 300; system, Navy-Liberty; w. l., 300, 450, 600.
- KERLEW.—Name changed to MOUNT SIDNEY; American Ship & Commerce Navigation Corp., owner of vessel.
- KEROWLEE.—Name changed to MOUNT STERLING.
- LAKE FESTINIA.—*Read LAKE FESTINA.*
- LAKE ORANGE.—System, Navy-Wireless Specialty Apparatus Co.
- LAKESHORE.—Range, 200; system, Navy, 1000.
- LAKE WINOOSKI.—System, Navy-Marconi, 1000.
- LIBERTY LAND.—System, Navy-Marconi, 1000; w. l., 300, 450, 600.
- LIGONIER.—System, Independent Wireless Telegraph Co., 1000; station operated and controlled by I. W. T. Co.
- MOHAWK.—Hours, X.
- NEW HAVEN.—Range, 75; hours, X.
- PALO ALTO.—Range, 200; system, Navy-Kilbourne & Clark, 1000; w. l. 300, 450, 600.
- PERE MARQUETTE 18.—Range, 150; system, Marconi, 1000; w. l. 300, 600; service, PG; rates, Great Lakes service, 2c. per word.
- PERE MARQUETTE 20.—Range, 150; system, Marconi, 1000; w. l. 300, 600; service, PG; rates, Great Lakes service, 2c. per word.
- REGINOLITE.—Name changed to Baytown.
- RETRIEVER.—Name changed to Warbler.
- RICHARD PECK.—Hours, X.
- SALEM COUNTY.—System, Navy-Simon, 1000; w. l. 300, 450, 600; hours, X.
- SALVOR.—Name changed to Willett.
- SEPULGA.—Name changed to Fleetco.
- SHOOTERS ISLAND.—W. l. 300, 450, 600.
- SINASTA.—Range, 300; system, Marconi, 1000; w. l. 300, 450, 600.
- SISKIYOU.—Range, 200; system, Gray & Danielson, 240; rates, North and South American service, 4c. per word; transoceanic, 8c. per word; station operated and controlled by owner of vessel.
- S. O. Co. No. 95.—System, Marconi, 1000; w. l. 300, 450, 600.
- SYBOS.—Range, 300; system, Navy-Marconi, 1000; w. l. 300, 600.
- WATERBURY.—Range, 300; system, Navy-Marconi, 1000; w. l. 300, 450, 600.
- WEST CAMAK.—Range, 300; system, Navy-Marconi, 1000; w. l. 300, 450, 600.
- WILHELM JEBSEN.—Name changed to Frederic Ewing; Pan-American Petroleum & Transport Co., owner of vessel.
- YAKA.—Range, 300; system, Navy-Marconi, 1000; w. l. 300, 450, 600.

The stations of the following-named vessels are operated and controlled by the Shipowners' Radio Service:

Atlanta of Texas.	Keshena.	Peacock.
Eastern Dawn.	Lake Gatun.	Storm King.
George E. Weed.	Maquan.	Topa Topa.
Hanley.	Narcissus.	West Kebar.
Jennie R. Morse.	Natirar.	

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

City of Weatherford.	Lake Blanchester.	Westward Ho.
Eastern Ocean.	Lehigh.	Wolverine State.
Edgewood.		

The station of the following-named vessel is operated and controlled by the Independent Wireless Telegraph Co.:

Abraham Lincoln.

Strike out all particulars of the following-named vessels:

Anyox.	Joan of Arc.	Manuel Rionda.
Hamilton.	Lakeside Bridge.	Nemassa.

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

KDBX, *read* Mount Clay; KDEM, *read* Baytown; KDKR, *read* Warbler; KDKS, *read* Willett; KEQP, *read* Lake Festina; KEZ, *read* San Lorenzo; KLQ, *read* Rainbow, Mont. (near Great Falls); KQP, *read* Mount Sidney; KURK, *read* Fleetco; WGW, *read* Mount Sterling; WNQ, *read* Frederic Ewing. Strike out all particulars following the call signals KEQL, KETV, KOA, KONF, KUXX, and WCJ.

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

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

Morris Island, S. C.—Call letters changed from NAO to NZV.

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

Rockville Center, N. Y. (2ZL).—Strike out all particulars.

#### MISCELLANEOUS.

##### WIRELESS ON ITALIAN VESSELS.

"Lloyds List" weekly summary, for December 31, 1920, published the following:

The "Official Gazette" publishes a decree ordering all motor and sailing vessels of over 1,600 tons and carrying passengers to be supplied with wireless installations.—Reuter. Rome, December 27, 1920.

##### OPERATOR'S LICENSE SUSPENDED.

License No. 18115 issued at Seattle, Wash., August 18, 1919, has been canceled on account of the holder using the license before the radio inspector had signed it.

##### RATES FOR SWEDEN.

The following information has been received from the Berne International Bureau:

Beginning January 1, 1921, the ship charge for Swedish stations will be 40 centimes per word with a minimum charge of 4 fr. per radiotelegram.

Also, the two first charges indicated in note 44, page 339, of the Official Nomenclature of radiotelegraph stations will be, respectively,

40 centimes and 4 fr. On the other hand, the telegraphic charges under Sweden, B, page 354, and relating to radiotelegrams exchanged with Denmark and Norway will be raised beginning the same date as follows:

- a—up to 10 words 1 fr. 96 centimes.
- b—for each additional word 14 centimes.

For urgent radiotelegrams these last two charges will be trebled.

#### RATES FOR NORWAY.

Beginning January 1, 1921, the coast charges for stations of Bergen, Flekkeroy, Rost, Sorvaagen, Tjome, and Utsire radio stations will be 40 centimes per word, with a minimum charge of 4 fr. per radiotelegram.

#### RATES FOR DENMARK.

Beginning January 1, 1921, the coast charges for Danish stations will be 40 centimes per word, with a minimum charge of 4 fr. per radiotelegram.

#### STRAITS SETTLEMENTS.

The British administration informs us that beginning January 1, 1921, the coast charge for the Penang and Singapore radio stations will be 60 centimes per word.

#### OPERATOR FINED.

An amateur operator in the third radio district has been recently fined, for violation of section 1 of the act of August 13, 1912, in that he failed to obtain a station and an operator's license.

#### OPERATOR'S LICENSE SUSPENDED.

License No. 20502 issued at New York, N. Y., November 22, 1919, was suspended for three months, beginning December 13 last, for violation of Article VI of the International Convention.

#### HEADQUARTERS PORT OF EIGHTH DISTRICT CHANGED.

The headquarters port of the eighth radio district has been changed from Cleveland, Ohio, to Detroit, Mich. This change should be made in the "Radio Communication Laws of the United States." All communications for the radio inspector in this district should be addressed to the Federal Building, Detroit, Mich.

#### INCREASED RATE FOR NEW YORK STATION OF RADIO CORPORATION OF AMERICA.

Effective February 1, this year, the New York station of the Radio Corporation of America, located at 47 West Street, call letters WNY, will charge 10 cents per word for ship service, in lieu of the previous rate which was 6 cents per word.

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