

RADIO SERVICE BULLETIN

ISSUED MONTHLY BY BUREAU OF NAVIGATION, DEPARTMENT OF COMMERCE

Washington, October, 1915—No. 10

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DEPARTMENT OF COMMERCE,

BUREAU OF NAVIGATION,

Washington, January 14, 1915.

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

This publication 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. Information regarding amateur stations appears only in the annual edition of the List of Radio Stations of the United States.

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 July 27, 1914) 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:
E. F. SWEET,
Acting Secretary.

NEW STATIONS.

SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[Additions to the List of Radio Stations of the United States, edition of July 1, 1915, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Name.	Call signal.	System.	Wave lengths.	Service.	Hours.
Alicia ¹	KZB	De Forest, 800.....	300, 600	PG	X
Azaiea ²	NLO				
Ellington ²	NLN				
Fort Bragg ²	WLN		300, 600		
Mount Hope ¹	KOL	Composite, 200.....	300, 600	P	X
Silver Shell ³	WIA	Marconi.....	300, 600		

¹ Range, 45; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram. Radio station operated and controlled by Alfred I. du Pont, owner of vessel (yacht).

² U. S. Department of Labor (Immigration Service), owner of vessel.

³ Higgins Lum.ber Co., owner of vessel.

⁴ Radio station operated and controlled by the Providence, Fall River & Newport Steamboat Co., owner of vessel.

⁵ Rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram. Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Silver Shell Steamship Co., owner of vessel.

SPECIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[ADDITIONS TO THE LIST OF RADIO STATIONS OF THE UNITED STATES, EDITION OF JULY 1, 1915, ONLY.]

Station.	Call signal.	Wave lengths.	Service.	Hours.	Station controlled by—
Auburn, Ala.....	5YA	1625, 1800	P	X	Alabama Polytechnic Institute.
Davenport, Iowa.....	9XE	300	P	X	William H. Kirwan.
Denver, Colo.....	9ZD	200, 425	P	X	Edward C. Stockman.
Louisville, Ill.....	9ZL	200, 425	P	(1)	Cecil Bridges.
New Orleans, La.....	5XM	300, 600	P	X	Marconi Co.
New York, N. Y.....	2YM	233, 300, 600	P	X	Y. M. C. A. Telegraph School.
Ridgway, Pa.....	8XO	300, 425	P	X	W. P. Osterhout (Pittsburgh Wireless Equipment Co.).
Rockford, Ill.....	9YB	200	P	X	Rockford School of Engineering.
Tiffin, Ohio.....	8ZT	200, 425	P	(2)	John J. Grossman.
Washington, D. C.....	3YM	200, 300, 400	P	X	McKinley Manual Training School.
Do.....	3YN	200, 400, 1800	P	X	James E. Smith (National Radio School).

¹ 11.55 a. m. to 1 p. m.; 6.30 p. m. to 11 p. m.

² 7 p. m. to 10.30 p. m.

SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

Call signal.	Station.	Call signal.	Station.
KOL	Mount Hope.	NLO	Azaiea.
KZB	Alicia.	WIA	Silver Shell.
NLN	Ellington.	WLN	Fort Bragg.

SPECIAL LAND STATIONS, GROUPED BY DISTRICTS.

Call signal.	District and station.	Call signal.	District and station.
2YM	Second district: New York, N. Y.	8XO	Eighth district: Ridgway, Pa.
3YM	Third district: Washington, D. C.	8ZT	Tiffin, Ohio.
3YN	Do.	9XE	Ninth district: Davenport, Iowa.
5XM	Fifth district: New Orleans, La.	9YB	Rockford, Ill.
5YA	Auburn, Ala.	9ZD	Denver, Colo.
		9ZL	Louisville, Ill.

ABBREVIATIONS.

INTERNATIONAL ABBREVIATIONS USED IN THIS LIST.

Nature of service:

PG=General public.

PR=Limited public.

P=Private.

O=Government business exclusively.

Hours of operation:

N=Continuous service.

X=No regular hours.

m=a. m.

s=p. m.

12 m=Midday.

12 s=Midnight.

c.=Cents.

OTHER ABBREVIATIONS.

Name =Name of station.

G. loc. =Geographical location (O=west longitude, N=north latitude).

Call =Radio call letters.

System =Radio system used and sparks per second.

Range =Normal range in nautical miles.

W. L. =Wave lengths.

Service =Nature of service.

Hours =Hours of operation.

Rates =Ship or coast charges in cents. (The rates in the international list are stated in francs and centimes. For approximate purposes, 1 franc equals 20 cents and 5 centimes equal 1 cent.)

Notes =Refers to notes in the Berne list.

NOTICE.

It will be noted that the additions, alterations, and corrections which appear in this issue of the Bulletin are supplementary to the List of Radio Stations of the United States, edition of July 1, 1915, which is now in the hands of the printer, although it is not possible at this time to anticipate its delivery. All additions appearing in this and later editions of the Bulletin should be saved and inserted in the new annual list as soon as it is received, and the alterations and corrections should be noted therein.

A sufficient number of blank pages will be inserted in the back of the new list in order that the additions appearing in the Bulletins may be clipped and pasted therein, enabling operators and others concerned to keep their annual list up to date with very little trouble.

ALTERATIONS AND CORRECTIONS.

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 July 1, 1915, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

ASHTABULA, OHIO.—System, Marconi, 480; W. L., 300, 500, 600; hours, 7.30m-11.30m, 12.30s-5s.

BAITIMORE, MD.—System, Marconi-United, 400.

BUFFALO, N. Y.—System, Marconi, 480; W. L., 300, 500, 600; hours, Sept. 16 to Dec. 15 and Apr. 15 to June 2. 7s-12s, 1m-7m; June 3 to Sept. 15. 7m-12m, 1s-6s, 7s-12s, 1m-6m.

- CALUMET, MICH.**—System, Marconi, 480; W. L., 300, 500, 600. Note, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America.
- CLEVELAND, OHIO.**—System, Marconi, 480; W. L., 300, 500, 600.
- DULUTH, MINN.**—System, Marconi, 480; W. L., 300, 500, 600. Note, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America.
- FORT WORDEN, WASH.**—Service, PG.
- FRANKFORT, MICH.**—System, Marconi, 480; W. L., 300, 500, 600.
- GRAND HAVEN, MICH.**—System, Marconi, 480; W. L., 300, 500, 600.
- LUDINGTON, MICH.**—System, Marconi, 480; W. L., 300, 500, 600.
- MACKINAC ISLAND, MICH.**—G. loc., O 84° 37' 00'', N 45° 50' 00''; system, Marconi, 480; W. L., 300, 500, 600; hours, Sept. 16 to Oct. 1 and June 7 to June 30, sunset to sunrise; July 1 to Sept. 15, 1m-6m, 7m-12m, 1s-6s, 7s-12s.
- MANISTIQUE, MICH.**—System, Marconi, 480; W. L., 300, 500, 600.
- MANITOWOC, WIS.**—System, Marconi, 480; W. L., 300, 500, 600. Note, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America.
- MARSHFIELD, OREG.**—System, Marconi, 300; hours, first 15 minutes of each hour from 8m-6s.
- MILWAUKEE, WIS.**—G. loc., O 87° 55' 25''-N 43° 02' 50''; system, Marconi, 480; W. L., 300, 500, 600.
- NEW ORLEANS, LA. (WHK).**—Hours, 7.05m-8m, 10m-10.25m, 10.45m-10.55m, 1s-1.20s, 3s-4s, 5s-5.30s, 6s-6.30s, 8s-8.55s, 10s-11s.
- NOME, ALASKA.**—Hours, N.
- SAGAPONACK, N. Y.**—Hours, X.
- SEATTLE, WASH.**—Service, PG and PR; hours, 8m-12m, 1s-5s, except Sundays and holidays; rates, PG service, 3 c. per word 30 c. minimum per radiogram. Notes, Radio station operated and controlled by the city of Seattle (harbor department). The station corresponds with the harbor patrol boat and all vessels entering Puget Sound. No charge for messages relating to shipping.
- TOLOVANA, ALASKA.**—Name, Brooks, Alaska.

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 July 1, 1915, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

- ADMIRAL DEWEY.**—Rates, 4 c. per word 40 c. minimum per radiogram.
- ADMIRAL FARRAGUT.**—Rate, 4 c. per word 40 c. minimum per radiogram.
- ARIZONA.**—System, Marconi, 240.
- BERKSHIRE.**—Strike out all particulars.
- BRUNSWICK.**—Range, 150.
- CAROLINA.**—Range, 100; system, Marconi, 240.
- CASSANDRA.**—Name, Casiana. Note, Edward L. Doheny, owner of vessel (yacht).
- CELLO.**—Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Cello Steamship Co., owner of vessel.
- CHALMETTE.**—Range, 300; system, Marconi, 1000; W. L., 300, 450, 600; service, PG; hours, N; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Southern Pacific Co., owner of vessel.
- CITY OF DETROIT III.**—System, Marconi, 240.
- CITY OF MONTGOMERY.**—Range, 300; system, Marconi, 1000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- CITY OF SAVANNAH.**—System, Marconi, 1000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- CITY OF SEATTLE.**—Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Pacific Coast Steamship Co., owner of vessel.

- COAMO.**—System, Marconi, 1000; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- COLUMBIA (KRO).**—Strike out all particulars.
- COLUMBIA (WHC).**—Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Henry Wilson, owner of vessel.
- COMUS (KKD).**—System, Marconi, 1000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- CORDOVA.**—Range, 100; system, Kilbourne & Clark, 120; service, PG; hours, N; rates, 4 c. per word 40 c. minimum per radiogram. Note, Radio station operated and controlled by the Alaska Steamship Co., owner of vessel.
- CBETAN.**—Range, 150; system, Marconi, 1000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- DESPATCH.**—Hours, N.
- DORA.**—Range, 100; system, Kilbourne & Clark, 120; service, PG; hours, X; rates, 4c. per word 40 c. minimum per radiogram. Note, Radio station operated and controlled by the Alaska Steamship Co., owner of vessel.
- EDITH.**—Strike out all particulars.
- EDWARD L. DOHENY.**—System, Marconi, 1000; W. L., 300, 475, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- ESPERANZA.**—System, Marconi, 1000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- GEORGIA (WFA).**—System, Marconi, 240.
- GRECIAN.**—System, Marconi, 1000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- GUARDIAN.**—Hours, X.
- HAVANA.**—Range, 300; system, Marconi, 1000; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- HONOLULAN.**—Hours, X.
- INDIAN (KQI).**—Strike out all particulars.
- INDIANA (WFC).**—Range, 100; system, Marconi, 240.
- JAMESTOWN.**—System, Marconi, 1000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- JOHN A. HOOPER.**—Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. John A. Hooper Co., owner of vessel.
- KERSHAW.**—System, Marconi, 1000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- LEXINGTON (KQL).**—Strike out all particulars.
- LYDONIA.**—System, Marconi, 240.
- MAROWIJNE.**—Strike out all particulars.
- MASCOTTE.**—System, Marconi, 200; W. L., 300, 600. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Peninsular & Occidental Steamship Co., owner of vessel.
- MEXICO.**—System, Marconi, 1000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- MIAMI (KOZ).**—System, Marconi, 240; W. L., 300, 600. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Peninsular & Occidental Steamship Co., owner of vessel.
- MISSOURI (WFX).**—System, Marconi, 240. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Northern Michigan Transportation Co., owner of vessel.
- NORTH STAR (KYZ).**—Strike out all particulars.
- OLEUM.**—Note, Union Oil Co., owner of vessel.
- PARTHIAN.**—Strike out all particulars.
- PURITAN.**—Range, 100; system, Marconi, 240.

- QUANTICO.**—System, Marconi, 1000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- RELIEF.**—Range, 75; system, De Forest, 120; W. L. 300, 600; service, PG; hours, X; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram. Note, Radio station operated and controlled by the Merritt & Chapman Derrick & Wrecking Co., owner of vessel.
- ROAMER.**—Range, 100; system, Marconi, 1000; W. L., 300, 450, 600; service, PG; hours, X; rate, 4 c. per word 40 c. minimum per radiogram. Note, Radio station operated and controlled by the State of Florida (shellfish commission), owner of vessel.
- SAN JACINTO.**—System, Marconi, 1000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- SANTA MARIA (WTF).**—Note, Santa Maria Steamship Co., owner of vessel.
- SANTA RITA (WTG).**—Range, 100; system, Marconi, 400; service, PG; hours, X.
- SARATOGA (KWS).**—Range, 300; system, Marconi, 1000; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.
- SAYONARA.**—Range, 200; system, Marconi, 600; W. L., 300, 600.
- SEANDBEE.**—System, Marconi, 240; hours, X.
- SOUTH AMERICAN.**—Strike out system. Note, The Texas Co., owner of vessel.
- STANDARD.**—Note, Standard Oil Co. of New Jersey, owner of vessel.
- TIONESTA.**—System, Marconi, 240.
- TUSCAN.**—Strike out all particulars.
- UMATILLA.**—System, Marconi, 480. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Pacific Coast Steamship Co., owner of vessel.
- VIGILANCIA.**—Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Walker, Armstrong & Co., owner of vessel.
- WHITTIER.**—Note, Union Transportation Co., owner of vessel.
- YUCATAN.**—Range, 100; system, Marconi, 480.
- ZULIA.**—System, Marconi, 1000; W. L., 300, 450, 600; rates, North and South American service, 4 c. per word 40 c. minimum per radiogram, transoceanic service, 8 c. per word 80 c. minimum per radiogram.

LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

KIZ, *read* Brooks, Alaska c; KYE, *read* Casiana b; strike out particulars following the call signals KDR, KQB, KQI, KQL, KQP, KQT, KRO, and WAE.

SPECIAL 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 July 1, 1915, only.]

BOSTON, MASS. (1XH).—Strike out all particulars.

WATCHAUG POND, R. I.—W. L., 200, 300, 425, 600; service, P; hours, X.

MISCELLANEOUS.

SIGNAL CORPS RADIO STATION CHANGES.

The Signal Corps station at Nome, Alaska, now maintains continuous service and the station at Fort Worden, Wash., is now open to general public service. The Signal Corps station at Fort St. Michael, Alaska, has been discontinued as an examination point where operators may secure licenses.

COMMERCIAL EXTRA FIRST-GRADE OPERATORS.

The names of the following operators have been added to the list of those to whom commercial extra first-grade licenses have been issued by the Secretary of Commerce as a reward for long and efficient service: John W. Lee, Philadelphia, Pa., and Robert Boyd Black, San Francisco, Cal.

THE PROVED VALUE OF RADIO TO VESSELS IN DISTRESS.

During the fiscal year 1915 the radio inspectors of the Bureau reported 26 cases of vessels leaving our ports which met with accident or disaster, requiring the use of wireless to summon assistance. Four of these were from fire; 12 were from running ashore, stranding, or getting into an ice jam; 3 were from the breakage of machinery; 4 resulted from collisions; 1 from shifting of cargo; 1 vessel was storm-battered and water-logged; and 1 was torpedoed. Excepting in the case of the *Lusitania*, which was torpedoed, the assistance thus rendered resulted in but two lives being lost. Since the close of the fiscal year the following disasters have occurred:

On September 13, 1915, the Fabre Line steamship *Sant' Anna*, bound from New York to Naples with 1,700 Italian reservists and crew aboard, caught fire in mid-ocean and all persons on board were saved. The SOS call brought the steamship *Ancona* to the assistance of the disabled vessel and 600 persons were taken off. The *Sant' Anna* then proceeded to port, convoyed by the *Ancona*, and the entire 1,700 passengers and crew saved.

Six days after the *Sant' Anna* disaster, the Greek liner *Athinai*, bound from New York to Piraeus, caught fire in mid-ocean and was abandoned by the passengers and crew, numbering 470. The call for assistance was answered by the steamships *Tuscania* and *Roumanian Prince*; 341 persons were taken on board the *Tuscania*, the remaining 129 being taken off by the *Roumanian Prince*. The vessel was entirely destroyed.

The use of radio apparatus on vessels carrying passengers, or with 50 or more crew, is now accepted as essential to the safety of those on board, and the report of the *Athinai* shows conclusively that many persons might have been lost and perhaps the cause of the disaster never known had not this vessel been equipped with radio apparatus.

ADDITIONAL COPIES

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