

RADIO SERVICE BULLETIN

ISSUED MONTHLY BY BUREAU OF NAVIGATION, DEPARTMENT OF COMMERCE

Washington, June, 1915—No. 6

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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.

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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.

Co. =Company.

NEW STATIONS.

LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the list of Radio Stations of the United States, edition of July 1, 1914, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Station.	Longitude and latitude (approximate).	Call signal.	Range.	System.	Wave lengths.
Akutan, Alaska ¹		KMW			
Albina, Oreg. ²		KGN			
Egegak, Alaska ^{3, 4}	O 157 39 00	KMF	100-300	Composite, 300	300, 600
Nushagak, Alaska (KMG) ^{3, 4}	N 58 17 00				
	O 158 32 00	KMG	100-300	Composite, 300	300, 600
	N 58 42 00				
Roche Harbor, Wash. ⁵		KRW			
Seattle, Wash. (KPE) ^{6, 7}	O 122 20 00	KPE	50	Composite, 150	300, 525, 600
	N 47 37 00				
Underwood, Wash. ²		KGO			

¹ Radio station operated and controlled by the North Pacific Sea Products Co.² Radio station operated and controlled by the North Western Electric Co.³ The station has private service, with no regular hours.⁴ Radio station operated and controlled by the North Alaska Salmon Co. The station is limited to correspondence with ship and land stations of the North Alaska Salmon Co.⁵ Radio station operated and controlled by the Tacoma & Roche Harbor Lime Co.⁶ Service, P-R; hours, 8m-5s, except Sundays and holidays.⁷ Radio station operated and controlled by the city of Seattle (harbor department). The station corresponds with the harbor patrol boats and all vessels entering Puget Sound.D. OF D.
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SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[Additions to the list of Radio Stations of the United States, edition of July 1, 1914, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Name.	Call signal.	System.	Wave lengths.	Service.	Hours.
Achilles.....	KPT		300, 600		N
Costa Rica ^{1, 2}	WQI	Composite, 480	300, 600	PG	X
Edith ^{3, 4, 5}	WAE	Kilbourne & Clark, 120	300, 600	PG	
Matinicock ⁶	KID		300, 600		N
Restorer ^{4, 7, 8}	WIU	Marconi.....	300, 600	P	
San Mateo ⁹	KLV		300, 600		
San Pablo ¹⁰	KLW		300, 600		
San Pedro ¹¹	KLX		300, 600		
Santa Catalina ^{4, 7, 12, 13}	WBC	Marconi, 480.....	300, 600	PG	X
Sarnia ^{7, 12, 14, 15}	KVR	Marconi, 240.....	300, 600	PG	N
Seward ^{3, 4, 5}	WAV	Kilbourne & Clark, 120	300, 600	PG	X
Siberia ¹⁵	KVS	Marconi.....	300, 600		
Standard ⁶	KIC				
Victoria ^{2, 4, 5}	WAD	Kilbourne & Clark, 120.....	300, 600	PG	N

¹ Range, 500 miles.

² Rates, 4 c. per word, 40 c. minimum per radiogram.

³ Radio station operated and controlled by the Bristol Bay Packing Co., owner of vessel.

⁴ Range, 100 miles.

⁵ Radio station operated and controlled by the Alaska Steamship Co., owner of vessel.

⁶ Standard Oil Co. of New Jersey, owner of vessel.

⁷ 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.

⁸ Radio station operated and controlled by the Commercial Pacific Cable Co., owner of vessel.

⁹ San Mateo Steamship Corporation, owner of vessel.

¹⁰ San Pablo Steamship Corporation, owner of vessel.

¹¹ San Pedro Steamship Corporation, owner of vessel.

¹² Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America.

¹³ Atlantic & Pacific Steamship Co., owner of vessel.

¹⁴ Range, 200 miles.

¹⁵ Sarnia Steamship Corporation, owner of vessel.

¹⁶ Siberia Steamship Corporation, owner of vessel.

LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

[b—ship station; c—land station.]

Call signal.	Station.	Call signal.	Station.
KGN	Albina, Oreg.....c	KPT	Achilles.....b
KGO	Underwood, Wash.....c	KRW	Roche Harbor, Wash.....c
KIC	Standard.....b	KVR	Sarnia.....b
KID	Matinicock.....b	KVS	Siberia.....b
KLV	San Mateo.....b	WAD	Victoria.....b
KLW	San Pablo.....b	WAE	Edith.....b
KLX	San Pedro.....b	WAV	Seward.....b
KMF	Egegak, Alaska.....c	WBC	Santa Catalina.....b
KMG	Nushagak, Alaska.....c	WIU	Restorer.....b
KMW	Akutan, Alaska.....c	WQI	Costa Rica.....b
KPE	Seattle, Wash.....c		

SPECIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the list of Radio Stations of the United States, edition of July 1, 1914, only.]

Station.	Call signal.	Wave lengths.	Service.	Hours.	Station controlled by—
Algona, Wash.....	7XU	300, 600, 4000 variable	P	X	Universal High Power Telephone Co.
Grand Coteau, La.....	5ZQ	450.....	P	X	St. Charles College.
Ithaca, N. Y.....	8YC	300, 425.....	P	X	Cornell University.
Lawrence, Kans.....	9XP	400, 550, 800, variable	P	X	University of Kansas.
Pittsburgh, Pa.....	8YI	300, 425.....	P	X	University of Pittsburgh.
Providence, R. I.....	1ZF	200, 300, 425, 600.....	P	X	Ralph C. Watrous.
Rockland, Me.....	1ZR	200, 300, 450, 600.....	P	X	Edward L. Norton.
Seattle, Wash. (7XK).....	7XK	600, 1000, 1400, 2000, 4000, variable.	P	X	Kilbourne & Clark Mfg. Co.
Seattle, Wash. (7XM).....	7XM	300, 600, 1400, variable.	P	X	Wireless Instrument Co.
Worcester, Mass.....	1ZW	800, 425.....	P	X	Wm. H. Allison.

SPECIAL LAND STATIONS, GROUPED BY DISTRICTS.

Call signal.	District and station.	Call signal.	District and station.
1ZP	First district: Providence, R. I.	7XM	Seventh district—Continued: Seattle, Wash.
1ZR	Rockland, Me.	7XU	Algona, Wash.
1ZW	Worcester, Mass.		Eighth district: Ithaca, N. Y.
5ZQ	Fifth district: Grand Coteau, La.	8YC	Pittsburgh, Pa.
	Seventh district: Seattle, Wash.	8YI	Ninth district: Lawrence, Kans.
7XK		9XP	

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, 1914, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

ELLAMAR, ALASKA.—Strike out all particulars.

FRIDAY HARBOR, WASH.—Strike out all particulars.

JUALIN, ALASKA.—Strike out all particulars.

MARSHFIELD, OREG.—Range, 250; system, Marconi, 240; W. L., 300, 600.

NEWPORT (WCI), R. I.—Range, 75; system, Fessenden, 1000; W. L., 300, 550, 600; rates, vessels plying between ports within 200 miles of New York, N. Y., 3 c. per word, 30 c. minimum per radiogram; North and South American service, 6 c. per word, 60 c. minimum per radiogram; transoceanic service, 12 c. per word, \$1.20 minimum per radiogram.

NEW YORK (WHD), N. Y.—Strike out all particulars.

PASSAGRILLE, FLA.—Ship rate, 6 c. per word, cable count, no minimum.

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, 1914, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

ADMIRAL DEWEY.—Range, 100; system, Kilbourne & Clark, 120.

ADMIRAL FARRAGUT.—Range, 100; system, Kilbourne & Clark, 120.

ADMIRAL SCHLEY.—Range, 100; system, Kilbourne & Clark, 120.

ADMIRAL WATSON.—Hours, N.

ALAMEDA.—Range, 100; system, Kilbourne & Clark, 120; rate, 4 c. per word, 40 c. minimum per radiogram. Note, Radio station operated and controlled by the Alaska Steamship Co., owner of vessel.

ALOHA.—Range, 200; system, Marconi, 1000; W. L., 300, 600; service, PG; hours, N; rate, 4 c. per word, 40 c. minimum per radiogram. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Arthur Curtiss James, owner of vessel (yacht).

AMERICAN.—Hours, X.

ANTILLA.—Range, 200; system, Marconi, 400; service, PG; rate, 4 c. per word, 40 c. minimum per radiogram. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. New York & Cuba Mail Steamship Co. (Ward Line), owner of vessel.

ATLANTIC CITY.—Range, 200; system, Marconi, 240; W. L., 300, 600; service, PG; rate, 4 c. per word, 40 c. minimum per radiogram.

BANTU.—Range, 200; system, Marconi, 400; service, PG; hours, X; rate, 4 c. per word, 40 c. minimum per radiogram.

BATON ROUGE.—Range, 200; system, Telefunken, 1000; service, PG; 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 Standard Oil Co. of New Jersey, owner of vessel.

BAYAMON.—Strike out all particulars.

BAYWAY.—Range, 200; system, Telefunken, 1000; service, PG; 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 Standard Oil Co. of New Jersey, owner of vessel.

BELFAST.—System, Marconi, 400.

BERLIN.—Range, 100; system, Marconi, 480; 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.

BEVERLY.—Range, 50; system, Fessenden, 260; service, PG; hours, N; rate, 3 c. per word, 30 c. minimum per radiogram. Notes, Radio station operated and controlled by the National Electric Signaling Co. Colonial Navigation Co., owner of vessel.

BORINQUEN.—Strike out all particulars.

BRABANT.—System, Marconi, 240; rate, 4 c. per word, 40 c. minimum per radiogram.

BROCKTON.—Range, 50; system, Fessenden, 260; service, PG; hours, N; rate, 3 c. per word, 30 c. minimum per radiogram. Notes, Radio station operated and controlled by the National Electric Signaling Co. Colonial Navigation Co., owner of vessel.

CALIFORNIA (KYQ).—Range, 200; system, Marconi, 240; service, PG; hours, N; rate, 4 c. per word, 40 c. minimum per radiogram. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Mrs. Clara B. Stocker, owner of vessel (yacht).

CALORIA.—Range, 200; system, Marconi, 480; 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.

CHARLTON HALL.—Range, 200; system, Marconi, 240; 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.

CHICAGO (WAC).—Range, 100; system, Kilbourne & Clark, 120; W. L., 300, 600; service, PG; hours, X.

CHINA.—System, Marconi, 120; W. L., 300, 600; service, PG. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Pacific Mail Steamship Co., owner of vessel.

CHIPPEWA (WBH).—Strike out all particulars.

CITY OF MACON.—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 MEMPHIS.—System, Marconi, 400; 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 PANAMA.—Strike out all particulars.

CITY OF SEATTLE.—Range, 100; system, Marconi, 480; W. L., 300, 600; service, PG; 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.

COL. JAMES M. SCHOONMAKER.—Strike out all particulars.

COLUMBIA (WPW).—Strike out all particulars.

CRASTER HALL.—Range, 200; system, Marconi, 240; service, PG; hours, X. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. U. S. Steel Products Co., owner of vessel.

CROFTON HALL.—Range, 200; system, Marconi, 120; service, PG; 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.

C. W. MORSE.—Strike out all particulars.

CYPRUS.—Range, 200; system, Marconi, 1000; 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.

DAMARA.—System, Marconi, 240.

DELHI.—Strike out all particulars.

DESPATCH.—Range, 150; system, Marconi, 240; 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.

DIRIGO.—Strike out all particulars.

DOLPHIN (WAU).—Range, 100; system, Kilbourne & Clark, 120; service, PG; hours, N. Note, Radio station operated and controlled by the Alaska Steamship Co., owner of vessel.

EVANGELINE.—Range, 200; system, Marconi, 120; 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.

EXPLORER.—Range, 150; system, Telefunken; hours, N. Notes, Radio station operated and controlled by the United States Department of Commerce, Coast and Geodetic Survey. Surveying ship.

- F. A. KILBURN.**—System, Marconi, 400.
- FORWARD (KPF).**—Range, 50; system, Fessenden, 260; W. L., 300, 450, 500, 550, 600; service, PG; hours, N; rate, 6 c. per word, 60 c. minimum per radiogram. Notes, Radio station operated and controlled by the National Electric Signaling Co. Yankee Salvage Association, owner of vessel.
- GENL. PETTIBONE.**—Strike out all particulars.
- GLORY OF THE SEAS.**—Strike out all particulars.
- GOLIAH.**—Range, 100; system, Kilbourne & Clark, 120; W. L., 300, 600; service, PG; hours, X; rate, 4 c. per word, 40 c. minimum per radiogram. Note, Radio station operated and controlled by the Puget Sound Tug Boat Co., owner of vessel.
- GOVERNOR DINGLEY.**—System, Marconi, 400.
- GRAYSON.**—Strike out all particulars.
- GUANTANAMO.**—Range, 200; system, Marconi, 400; service, PG; hours, N; rate 4 c. per word, 40 c. minimum per radiogram. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. New York & Cuba Mail Steamship Co. (Ward Line) owner of vessel.
- GULFOIL.**—System, Marconi, 480; hours, X.
- HAWAIIAN.**—Range, 200; system, Telefunken, 1000; 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.
- HOWICK HALL.**—Range, 200; system, Marconi, 240; service, PG; hours, N.
- HUMBOLDT.**—Range, 100; W. L., 300, 600; service, PG; 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.
- HYADES.**—Range, 140; system, Marconi, 480; W. L., 300, 600; service, PG.
- I. D. FLETCHER.**—Range, 200; system, Marconi, 400; W. L., 300, 600; service, PG; hours, N; rate, 4 c. per word, 40 c. minimum per radiogram. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Coast Transit Co., owner of vessel.
- I. J. MERRITT.**—Range, 100; system, Clapp-Eastham, 500; W. L., 300, 600; service, PG; hours, X; rate, 4 c. per word, 40 c. minimum per radiogram. Note, Radio station operated and controlled by the Merritt & Chapman Derrick & Wrecking Co., owner of vessel.
- IOWAN.**—Hours, X.
- IROUOIS (WBG).**—Strike out all particulars.
- JAMES DUANE.**—Strike out all particulars.
- JEFFERSON (WAJ).**—Range, 100; system, Kilbourne & Clark, 120; service, PG; hours, N; rate, 4 c. per word, 40 c. minimum per radiogram. Note, Radio station operated and controlled by the Alaska Steamship Co., owner of vessel.
- JIM BUTLER.**—Range, 150; system, Marconi, 480; 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. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Olson & Mahony, owner of vessel.
- J. L. LUCKENBACH.**—Range, 200; system, Marconi, 240; service, PG; hours, N; rate, 4 c. per word, 40 c. minimum per radiogram.
- JOHN D. ROCKEFELLER.**—Range, 300; system, Marconi, 240; 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.
- JOSEPH PULTZER.**—Strike out all particulars.
- KANSAN.**—Range, 200; system, Telefunken, 1000, 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.
- KENTRA.**—Range, 200; system, Marconi, 400; service, PG; hours, N; rate, 4 c. per word, 40 c. minimum per radiogram.
- KENTUCKIAN.**—Range, 200; system, Telefunken, 1000; 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.
- KROONLAND.**—Range, 200; system, Marconi, 240; W. L., 300, 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.
- KVICHAK.**—Range, 300; system, Kilbourne & Clark, 120; W. L., 300, 600; service, PG; hours, N; rate, 4 c. per word, 40 c. minimum per radiogram. Note, Radio station operated and controlled by the Alaska Packers' Association, owner of vessel.
- LATOUCHE.**—Range, 100; system, Kilbourne & Clark, 120; service, PG; hours, X; rate, 4 c. per word, 40 c. minimum per radiogram. Note, Radio station operated and controlled by the Alaska Steamship Co., owner of vessel.

- I BELANAW.**—System, Marconi, 120; W. L., 300, 600; service, PG; Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Harris, Irby & Vose, owner of vessel.
- LLAMA.**—Range, 200; system, Marconi, 240; service, PG; hours, N.
- MACKINAW.**—Strike out all particulars.
- MARACAS.**—Range, 200; system, Marconi, 400; service, PG; hours, N; rate, 8 c. per word, 80 c. minimum per radiogram.
- MARIPOSA.**—Range, 100; system, Kilbourne & Clark, 120; W. L., 300, 600; service, PG; rate, 4 c. per word, 40 c. minimum per radiogram. Note, Radio station operated and controlled by the Alaska Steamship Co., owner of vessel.
- MAVERICK.**—Strike out system. Note, Standard Oil Co. of California, owner of vessel.
- MILLS.**—Range, 200; system, Marconi, 240; W. L., 300, 600; service, PG., hours, N; rate, 4 c. per word, 40 c. minimum per radiogram. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Ogden Mills, owner of vessel.
- MINNESOTAN.**—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.
- MONTANAN.**—Range, 200; system, Telefunken, 1000; 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.
- NACOOCHEE.**—System, Marconi, 400; 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.
- NIAGARA (KYN).**—Range, 200; system, Marconi, 400; 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. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Howard Gould, owner of vessel (yacht).
- NOKOMIS.**—System, Marconi. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Horace E. Dodge, owner of vessel (yacht).
- NOMA.**—Range, 200; system, Marconi, 480; W. L., 300, 600; service, PG; hours, X; rate, 4 c. per word, 40 c. minimum per radiogram. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Vincent Astor, owner of vessel (yacht).
- NORTH LAND (KJD).**—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.
- NORTH STAR (KJS).**—System, Marconi, 400; 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.
- NORTH STAR (WHR).**—Strike out all particulars.
- NORTHWESTERN (WAN).**—Range, 100; system, Kilbourne & Clark, 120; service, PG; hours, N. Note, Radio station operated and controlled by the Alaska Steamship Co., owner of vessel.
- NUSHAGAK.**—Range, 300; system, Kilbourne & Clark, 120; rate, 4 c. per word, 40 c. minimum per radiogram. Note, Radio station operated and controlled by the Alaska Packers' Association, owner of vessel.
- OHIOAN.**—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.
- OLD COLONY.**—Range, 200; system, Marconi, 240; W. L., 300, 600; service, PG; hours, N; rate, 4 c. per word, 40 c. minimum per radiogram. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Eastern Steamship Corporation, owner of vessel.
- OLIVER J. OLSON.**—Strike out all particulars.
- ONEONTA.**—Range, 100; system, Marconi, 1000; 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.
- OREGONIAN.**—Range, 200; system, Telefunken, 1000; 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.
- OSSABAW.**—Range, 250; system, Marconi, 240; W. L., 300, 600; service, PG; hours, X; rate, 4 c. per word, 40 c. minimum per radiogram. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Atlantic, Gulf & West Indies Steamship Lines (Mallory Steamship Co.) owner of vessel.

- OWERA.**—Range, 200; system, Marconi, 1000; 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.
- PANAMAN.**—Range, 200; system, Telefunken, 1000; 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.
- PANUCO.**—Range, 200; system, Marconi, 240; service, PG; hours, X; rate, 4 c. per word, 40 c. minimum per radiogram.
- PATHFINDER.**—Range, 150; system, Telefunken; W. L., 300, 600; service, O; hours, N. Notes, Radio station operated and controlled by the United States Department of Commerce, Coast and Geodetic Survey. Surveying ship.
- PATERSON (NLH).**—Range, 150; system, Telefunken; hours, N. Notes, Radio station operated and controlled by the United States Department of Commerce, Coast and Geodetic Survey. Surveying ship.
- PAVLOF.**—Range, 100; system, Marconi, 480; W. L., 300, 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.
- PENNSYLVANIAN.**—Range, 200; system, Telefunken, 1000; 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.
- PETROLITE.**—Range, 200; system, Telefunken, 1000; service, PG; hours, 9m-12m, 2s-5s, 8s-10:30s; 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 Standard Oil Co. of New Jersey, owner of vessel.
- PILOT BOY.**—Strike out system. Note, Texas & Gulf Steamship Co., owner of vessel.
- PIONEER.**—Range, 200; system, Telefunken, 1000; service, PG; hours, 9m-12m, 2s-5s, 8s-10:30s; 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 Standard Oil Co. of New Jersey, owner of vessel.
- PLATURIA.**—Range, 200; system, Marconi, 240; service, PG; hours, N; rate, 4 c. per word, 40 c. minimum per radiogram.
- POLARINE.**—Range, 200; system, Telefunken, 1000; service, PG; hours, 9m-12m, 2s-5s, 8s-10:30s; 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 Standard Oil Co. of New Jersey, owner of vessel.
- PRINCETON (KST).**—Range, 200; system, Telefunken, 1000; service, PG; hours, 9m-12m, 2s-5s, 8s-10:30s; 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, Standard Oil Co. of New Jersey, owner of vessel.
- REDONDO.**—Range, 100; system, Kilbourne & Clark, 120; hours, X. Note, Radio station operated and controlled by the Alaska Steamship Co., owner of vessel.
- RESCUE.**—Range, 100; system, De Forest, 240; W. L., 300, 600; service, PG; hours, X; rate, 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.
- REUCE.**—Range, 100; system, Kilbourne & Clark, 120; W. L., 300, 600; service, PG; hours, X. Note, Radio station operated and controlled by the Columbia River Packers' Association, owner of vessel.
- SAMSON (WOS).**—Strike out all particulars.
- SAN FRANCISCO (KRT).**—Range, 200; system, Marconi, 480; 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.
- SAN JUAN (KGJ).**—System, Marconi, 400.
- SAN MARCOS.**—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 ANA.**—Range, 100; system, Kilbourne & Clark, 120; service, PG; hours, N. Note, Radio station operated and controlled by the Alaska Steamship Co., owner of vessel.
- SANTA CECILIA.**—Range, 100; system, Marconi, 480; 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. per radiogram.

- SANTA MARTA.**—Range, 500; system, Composite, 1000; service, PG; hours, N; rate, 8 c. per word, 80 c. minimum per radiogram. Notes, Radio station operated controlled by the Tropical Radio Telegraph Co. Santa Marta Steamship Corporation, owner of vessel.
- SARAMACCA.**—Range, 350; system, Wireless Specialty Apparatus Co., 1000; service, PG; hours, N; rate, 8 c. per word, 80 c. minimum per radiogram. Notes, Radio station operated and controlled by the Tropical Radio Telegraph Co. Saramacca Steamship Corporation, owner of vessel.
- SATSUMA.**—Range, 200; system, Marconi, 480; service, PG; hours, N; rate, 8 c. per word, 80 c. minimum per radiogram. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co., of America. Barber & Co., owner of vessel.
- SECURITY.**—Range, 200; system, Marconi, 240; W. L., 300, 600; service, PG; hours, X.
- SENATOR.**—Range, 100; system, Marconi, 480; W. L., 300, 600; 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.
- SENATOR BAILEY.**—W. L., 300, 450, 600; hours, X.
- SHENANGO (KTC).**—System, Marconi, 240; hours, X.
- SHENANGO (WET).**—Strike out all particulars.
- SIBERIA.**—System, Marconi, 300.
- SOMERSET (KSU).**—Range, 200; system, Telefunken, 1000; service, PG; hours, 9m-12m, 2s-5s; 8s-10.30s; 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 Standard Oil Co. of New Jersey, owner of vessel.
- SPOKANE.**—Range, 100; system, Marconi, 480; 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.
- STARR.**—Range, 100; system, Kilbourne & Clark, 120; W. L., 300, 600; service, PG; hours, X.
- ST. FRANCIS.**—Range, 100; system, Kilbourne & Clark, 120; W. L., 300, 600; service, PG; hours, X; rate, 4 c. per word, 40 c. minimum per radiogram. Note, Alaska Fishermen's Packing Co., owner of vessel.
- ST. NICHOLAS.**—Range, 100; system, Kilbourne & Clark, 120; W. L., 300, 600; service, PG; hours, X. Note, Radio station operated and controlled by the Columbia River Packers' Association, owner of vessel.
- SULTANA.**—Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Mrs. Mary W. Harriman, owner of vessel (yacht).
- SURINAME.**—Range, 350; system, Wireless Specialty Apparatus Co., 1000; service, PG; hours, N; rate, 8 c. per word, 80 c. minimum per radiogram. Notes, Radio station operated and controlled by the Tropical Radio Telegraph Co. Suriname Steamship Corporation, owner of vessel.
- S. V. LUCKENBACH.**—Range, 200; system, Marconi, 400; service, PG; hours, N; rate, 4 c. per word, 40 c. minimum per radiogram.
- TATOOSH.**—Range, 100; system, Kilbourne & Clark, 120; W. L., 300, 600; service, PG; hours, X.
- TEXAN.**—Range, 250; system, Telefunken, 1000; 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.
- TOPILA.**—System, Marconi, 480; hours, X.
- TYEE JUNIOR.**—Strike out all particulars.
- WAKIVA.**—Range, 200; system, Marconi, 240; W. L., 300, 600; service, PG; hours, N; rate, 4 c. per word, 40 c. minimum per radiogram. Notes, Radio station operated and controlled by the Marconi Wireless Telegraph Co. of America. Lamson V. Harkness, owner of vessel (yacht).
- WALLULA.**—Range, 100; system, Marconi, 1000; 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.
- WAPAMA.**—Range, 100; system, Marconi, 240; W. L., 300, 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. Chas. R. McCormick & Co., owner of vessel.

- W. B. FLINT.—Range, 100; system, Kilbourne & Clark, 120; W. L., 300, 600; service, PG; hours, X; rate, 4 c. per word, 40 c. minimum per radiogram. Note, Radio station operated and controlled by the Alaska Fishermen's Packing Co., owner of vessel.
- W. B. KEENE.—Range, 200; system, Marconi, 400; service, PG; hours, X.
- WICO.—Range, 200; system, Marconi, 480; service, PG; hours, X.
- WILLIAM P. SNYDER.—Strike out all particulars.
- WILLIAM P. SNYDER, JR.—Strike out all particulars.
- WILPEN.—Strike out all particulars.
- WINDBER.—Range, 100; system, Marconi, 480; W. L., 300, 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.
- ZAPORA.—Range, 100; system, Kilbourne & Clark, 120; W. L., 300, 600; service, PG; hours, X. Note, Radio station operated and controlled by the International Fisheries Co., owner of vessel.
- ZARA.—Range, 200; strike out system; 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, F. J. Littlefield, owner of vessel (yacht).

LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

Strike out particulars after the following call signals: KDV, KDW, KDX, KIJ, KIS, KJA, KMO, KPD, KUP, WAO, WBG, WBH, WBZ, WEQ, WER, WES, WET, WEU, WGD, WHD, WHR, WHW, WNB, WOS, WPB, WPW, WPZ, WWP.

MISCELLANEOUS.

RATES.

The Marconi Wireless Telegraph Co. of America has been authorized by the Department to apply a rate of \$1.25 for 10 words and 12 c. for each additional word, domestic count, for commercial business between its stations at Astoria, Oreg., and Ketchikan, Alaska. These stations will also apply a ship rate of 6 c. per word for North and South American service and 12 c. per word for transoceanic service, the foregoing rates to be effective June 1, 1915.

The Department has approved the reestablishment of the rate of 6 c. per word for limited public service between the Marconi station at Miami, Fla., and the British Government station at Nassau, Bahamas, effective June 1, 1915. The Department authorized an increase in this rate to 12 c. per word, effective March 15, 1915, and the 6 c. rate has been reestablished at the request of the Marconi Co.

COMMERCIAL EXTRA FIRST-GRADE OPERATORS.

The name of Fred Elmer Nickel, of San Francisco, Cal., has 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.

LIST OF RADIO STATIONS OF THE UNITED STATES.

The owners of all radio stations, other than general and restricted amateur, are requested to forward to the radio inspector of their districts any changes in their stations and information as to the dismantling of stations or the erection of new stations, in order that these changes may be included in the List of Radio Stations of the United States, edition of July 1, 1915, and the bureau's records brought up to date.

NOME, ALASKA, SUMMER SCHEDULE.

The following summer-operating schedule will be maintained by the Signal Corps radio station at Nome, Alaska (Nome time), during the months of July, August, and September:

DAILY.

NULATO.—9 a. m., 11 a. m., 3 p. m., 5 p. m., 7.45 p. m.
 ST. MICHAEL.—10 a. m., 2 p. m., 6 p. m., 7 p. m.
 ST. PAUL.—8.30 a. m., 4 p. m.

SUNDAYS AND HOLIDAYS.

NULATO.—9 a. m., 5 p. m.
 ST. MICHAEL.—10 a. m., 6 p. m.

DAILY.

Schedule after 8 p. m. fixed by Nulato to clear the line east. This sometimes takes to midnight and after.

The time not covered above will be available for ships night and day and for St. Paul, but it should be thoroughly understood that the stations mentioned will clear before surrendering.

AMENDMENTS.

[To be cut out and pasted in your copy.]

The Radio Communication Laws of the United States, edition of July 27, 1914, are hereby amended as follows:

Page 56, paragraph 71, should read:

In order to comply with section 2 of the act of July 24, 1910, every land station open to general public service, and every station on board an American vessel of the first or second class engaged in the foreign trade or transoceanic service, shall have as a part of the station equipment a copy of the official Berne list and supplements thereto as issued. Information concerning the use of this list and method of procuring it is given on page 72, paragraph 196.

Page 72, Paragraph 193, should read:

Supplements to this list are issued monthly under the title "Radio Service Bulletin," and the list is revised annually as of July 1. These monthly supplements contain information concerning Government, commercial, and special stations only, and information regarding amateur stations appears only in the annual edition of the list of Radio Stations of the United States. Amendments to or changes in the Radio Laws and Regulations of the United States 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.

Page 72, paragraph 195, should read:

A copy of the official Berne list, and supplements as issued, are required as a part of the equipment of every land station open to general public service and every ship station of the first or second class on American vessels engaged in foreign trade or the transoceanic service.

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