

RADIO SERVICE BULLETIN

ISSUED MONTHLY BY BUREAU OF NAVIGATION, DEPARTMENT OF COMMERCE

Washington, August 1, 1921—No. 52

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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. (12 m=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.)
- 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.
- Do. =Ditto.

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—
Norfolk, Va. ¹	WPT	300,475,600	PR	X	City of Norfolk.
Toledo, Ohio ²	WQC	275,300,350,600	PR	Central States Radio Service.

¹ Loc. (approximately) O 76° 15' 30", N 36° 51' 00"; range, 150; system, Telefunken, 1000; rates, none.

² Loc. (approximately) O 83° 31' 00", N 41° 40' 00"; range, 75; system, composite, 240; hours, 8.30 a.m. to 6 p.m.; rates, to Detroit 2 c per word; minimum 10 words, 20 c.

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.				
Adler.....	KD TT			PG	X	Coronal Coal Co.....	S. O. R. S. Owner of vessel.
American Legion.....	KD TM	4	4	PG	N	U. S. S. B.	
Bowdoin.....	KD TQ					McMillan Arctic Expedition.	
Colonial ¹	KD TK			PG	X	Western Reserve Navigation Co.	R. C. of A.
Hamer.....	KD TN	4	4	PG	X	U. S. S. B.	R. C. of A. I. W. T. Co.
J. A. Moffett, jr.....	KD TU			PG	N	Standard Oil Co. of N. J.	
J. N. Pew.....	KD TP	8	8	PG	X	Sun Co.....	
Liberty Glo ²	KI QZ	4	4	PG	X	U. S. S. B.	
Memphis City.....	KD TR			PG	N	U. S. Steel Products Co.	
Nevada II.....	KD TL					J. F. Lowcock.....	
Thomas P. Beal.....	KD TO			PG	X	Crowell & Thurlow S. S. Co.	
Tustem.....	KD TW						
West Greylock.....	KD TV	4	4	PG	N	U. S. S. B.	

¹ Range, 150; system, R. C. of A., 1000; w.l., 300, 600; rates, Great Lakes service 2 c per word.

² System, Wireless Specialty Apparatus Co., 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.		
KD TK	Colonial.....	b	KD TT	Adler.....	b
KD TL	Nevada II.....	b	KD TU	J. A. Moffett, jr.....	b
KD TM	American Legion.....	b	KD TV	West Greylock.....	b
KD TN	Hamer.....	b	KD TW	Tustem.....	b
KD TO	Thomas P. Beal.....	b	KI QZ	Liberty Glo.....	b
KD TP	J. N. Pew.....	b	WPT	Norfolk, Va.....	c
KD TQ	Bowdoin.....	b	WQC	Toledo, Ohio.....	c
KD TR	Memphis City.....	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 Berns bureau.]

Station.	Call signal.	Station controlled by—
Iowa City, Iowa.....	KDTS	Post Office Department.

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—
Ablene, Tex.....	5YN	Simmons College.
Baltimore, Md.....	3YR	Polytechnic Institute, city of Baltimore.
Berkeley, Calif.....	6ZAF	A. H. Babcock.
Cambridge, Mass.....	1XO	General Radio Co.
Chicago, Ill.....	9YAK	City of Chicago.
Cincinnati, Ohio.....	8XAA	Crosley Manufacturing Co.
Denver, Colo.....	9ZAF	Wm. D. Reynolds.
Kountze, Tex.....	5ZAJ	Arthur H. Holt.
Middletown, Conn.....	1XAC	Wesleyan University.
New Orleans, La.....	5XQ	Pendleton E. Lehrs.
Oakland, Calif.....	6XAJ	Preston D. Allen.
Parkersburg, W. Va.....	3XW	Horace A. Beale, jr.
Pawtucket, R. I.....	1XAD	Standard Radio & Electric Co.
Portland, Oreg.....	7ZT	G. B. Critser.
Pullman, Wash.....	7ZS	Hugh E. Allen.
San Francisco, Calif.....	6ZAG	Clyde C. Young.
San Francisco, Calif.....	6ZAH	Boy Scouts of America.
San Francisco, Calif.....	6ZAI	Do.
Spring Glen, Fla.....	4ZE	James C. Kellow.
Washington, D. C.....	3XZ	Radio Construction Co.
Washington, D. C.....	3ZY	Lawrence M. Dunnan.

Special land stations grouped by districts.

Call signal.	District and station.	Call signal.	District and station.
1XAC	First district:	6ZAF	Sixth district:
1XAD	Middletown, Conn.....	6ZAG	Berkeley, Calif.
1XO	Pawtucket, R. I.....	6ZAH	San Francisco, Calif.
	Cambridge, Mass.....	6ZAI	San Francisco, Calif.
	Third district:	6XAJ	San Francisco, Calif.
3XW	Parkersburg, W. Va.....		Oakland, Calif.
3XZ	Washington, D. C.....		Seventh district:
3YR	Baltimore, Md.....	7ZS	Pullman, Wash.
3ZY	Washington, D. C.....	7ZT	Portland, Oreg.
4ZE	Fourth district: Spring Glen, Fla.....	8XAA	Cincinnati, Ohio.
	Fifth district:		Ninth district:
5XQ	New Orleans, La.....	9YAK	Chicago, Ill.
5YN	Ablene, Tex.....	9ZAF	Denver, Colo.
5ZAJ	Kountze, Tex.....		

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 Berns bureau.]

BURRWOOD, LA.—Rates, between New Orleans, La., and Burrwood, La., minimum charge \$1 for 10 words, each additional word 10 c. Address and signature free.

CHEBOYGAN, MICH.—System, composite, 240; w. l., 300, 400, 600.

FALSE PASS, ALASKA.—P. E. Harris & Co., owner of vessel.

DEARBORN, MICH.—Range, 150.

- HILLSBORO, OREG.—Range, 1000; system, Federal arc.
 JOHNSWOOD, MICH.—Range, 50.
 NEW ORLEANS, LA.—Rates, between Burrwood, La., and New Orleans, La., minimum charge \$1 for 10 words, each additional word 10 c. Address and signature free.
 NORTHVILLE, MICH.—Range, 50; w. l., 300, 380, 500, 600.
 PALO ALTO, CALIF.—Range, 1000; system, Federal arc.
 SAN FRANCISCO, CALIF. (KHH).—Range, 100; system, composite, 1000.
 TUCKERTON, N. J.—W. l., 300, 600, 18000.

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.]

- ALA.—Station operated and controlled by R. C. of A.
 A. M. BYERS.—Range, 200.
 ASHTABULA.—System, R. C. of A., 1000.
 AMERICAN.—Range, 300; system, Navy-Liberty, 1000; w. l., 300, 450, 600; hours, N; U. S. Shipping Board owner of vessel.
 ANNETTE ROLPH.—Rates, North and South American service 8 c per word.
 ANNISTON.—Station operated and controlled by R. C. of A.
 ARCADIA.—Station operated and controlled by R. C. of A.
 ARDMORE.—Range, 300; system, R. C. of A. 1000.
 ARIEPA.—Station operated and controlled by R. C. of A.
 ASKAWAKE.—Station operated and controlled by I. W. T. Co.
 ASTRAL.—Range, 300.
 AVALON (KIZL).—Rates, North and South American service 8 c per word.
 BAY HEAD.—Station operated and controlled by R. C. of A.
 BANNACK.—Station operated and controlled by R. C. of A.
 BETTY R.—Range, 50; system, Deforest; Edward C. Crossett owner of vessel.
 BLUE HEN STATE.—Station operated and controlled by I. W. T. Co.
 CAMBRIDGE.—Range, 75; hours, N.
 CAPILO.—Station operated and controlled by R. C. of A.
 CARACAS.—Range, 300.
 CASCO.—Station operated and controlled by R. C. of A.
 CELILO.—Station operated and controlled by owner of vessel.
 CENTENNIAL STATE.—Range, 300; system, Independent arc; w. l., 300, 600, 1800.
 CITY OF FREEPORT.—Station operated and controlled by R. C. of A.
 CITY OF LOWELL.—Range, 75.
 CITY OF ROCKLAND.—Range, 150; system, R. C. of A., 1000.
 CITY OF SEATTLE.—Pacific S. S. Co. owner of vessel.
 CITY OF TAUNTON.—Range, 75.
 CLAREMONT.—Rates, North and South American service, 8 c per word.
 COASTWISE.—Range, 300; system, Navy-R. C. of A., 1000; w. l., 300, 450, 600.
 COLD HARBOR.—Range, 300; system, Navy-Wireless Specialty Apparatus Co., 1000; w. l., 300, 450, 600.
 COLUSA.—Station operated and controlled by R. C. of A.
 CONNESS PEAK.—Station operated and controlled by R. C. of A.
 CRANFORD.—Station operated and controlled by I. W. T. Co.
 CREOLE.—W. l., 300, 600.
 CRETAN.—Rates, transoceanic service, 8 c per word.
 DECATUR BRIDGE.—System, Navy-Marconi, 1000; w. l., 300, 450, 600.
 DELPHINE (KIFL).—System, R. C. of A., 1000; w. l., 300, 600.
 DIXIANO.—Range, 300; system, R. C. of A., 1000; w. l., 300, 450, 600.
 DORCHESTER.—Range, 150; hours, N.

- DUNSTRE.**—Rates, North and South American and transoceanic services, 8 c per word; station operated and controlled by owner of vessel.
- EASTERN SOLDIER.**—Station operated and controlled by R. C. of A.
- EASTERN VICTOR.**—Station operated and controlled by R. C. of A.
- EL ALMIRANTE.**—Range, 150.
- EL SEGUNDO.**—Range, 300; system, R. C. of A., 480.
- EMPIRE STATE.**—Range, 2000; system, Federal arc, w. l., 300, 450, 600, 1800.
- ERNEST H. MYER.**—Station operated and controlled by owner of vessel.
- EVERETT (KUQR).**—Rates, North and South American service, 8 c per word.
- EVERETT (KZT).**—Range, 300; w. l., 300, 450, 600.
- FAIRMONT.**—Range, 300; system, Navy-Marconi, 1000; w. l., 300, 450, 600.
- FRANK G. DRUM.**—Rates, North and South American and transoceanic services, 8 c per word; station operated and controlled by owner of vessel.
- FRANKLIN (WFF).**—System, R. C. of A., 1000.
- FRED BAXTER.**—Rates, North and South American and transoceanic services, 8 c per word.
- GEORGE WASHINGTON.**—Range, 300; system, Navy, 1000; w. l., 300, 450, 600.
- GEORGINA ROLPH.**—Rates, North and South American service, 8 c per word.
- GOLD SHELL.**—Range, 300; system, R. C. of A., 1000.
- GUARDIAN.**—Service, P; rates, none.
- HAMBRO.**—Range, 300; system, Federal arc; w. l., 300, 600, 1800; station operated and controlled by S. O. R. S.
- HAMPDEN.**—System, Navy-R. C. of A., 1000; w. l., 300, 450, 600.
- HANCOCK COUNTY.**—Range, 200; system, Navy-Simon, 1000; w. l., 300, 600; station operated and controlled by R. C. of A.
- HARTWOOD.**—Rates, North and South American service, 8 c per word.
- HERCULES.**—Rates, North and South American service, 8 c per word; station operated and controlled by owner of vessel.
- HERMAN WINTER.**—Dimon Line owner of vessel.
- H. F. DIMOCK.**—Dimon Line owner of vessel.
- HOMER.**—Rates, North and South American service, 8 c per word.
- HORACE X. BAXTER.**—Rates, North and South American service, 8 c per word; station operated by owner of vessel.
- HYBERT.**—Station operated and controlled by R. C. of A.
- INDIAN BRIDGE.**—Range, 300; system, Navy, 1000; w. l., 300, 450, 600.
- JANELAW.**—Station operated and controlled by S. O. R. S.
- JOHN ENA.**—Rates, North and South American service, 8 c per word; station operated and controlled by owner of vessel.
- JOHN W. WELLS.**—Rates, North and South American service, 8 c per word.
- JULIA LUCKENBACH.**—Range, 300; w. l., 300, 450, 600; rates, North and South American and transoceanic services, 4 c per word.
- KEYSTONE STATE.**—Range, 300; system, Federal arc and Wireless Specialty Apparatus Co., 1000; w. l., 300, 450, 600.
- KOOTENAI.**—Range, 300.
- LAKE FILLMORE.**—Range, 200; system, Navy-Marconi, 1000; w. l., 300, 450, 600.
- LAKE LASANG.**—Station operated and controlled by R. C. of A.
- LEWIS LUCKENBACH.**—Range, 300; system, Kilbourne & Clark, 1000; w. l., 300, 450, 600.
- LIBERTY BELL.**—Station operated and controlled by R. C. of A.
- LIO.**—Station operated and controlled by S. O. R. S.
- LURLINE.**—Range, 300; system, R. C. of A., 1000.
- MANITOU.**—System, R. C. of A., 1000.
- MANULANI.**—W. l., 300, 450, 600.
- MARTHA WASHINGTON.**—Range, 300; system, Telefunken, 1000; w. l., 300, 450, 600.

- MELROSE.**—W. I., 300, 450, 600.
- MIDDLESEX.**—Range, 150; system, R. C. of A., 1000; w. l., 300, 450, 600.
- MOUNT CARROLL.**—Range, 300; system, Kilbourne & Clark, 1000; w. l., 300, 450, 600; rates, transoceanic service 8 c per word; station operated and controlled by owner of vessel.
- MULTNOMAH.**—Station operated and controlled by owner of vessel.
- MUNRIO.**—W. I., 300, 450, 600.
- NORFOLK.**—Range, 300; system, Navy-R. C. of A., 1000; w. l., 300, 450, 600.
- NORTHERN STAR.**—American Star Line owner of vessel.
- NORWOOD.**—Range, 300; hours, N. and X.
- OLDHAM.**—Range, 200; system, Marconi, 1000; w. l., 300, 450, 600.
- OTSEGO.**—Range, 300; system, Federal arc; w. l., 300, 450, 600, 1800.
- PARAISO.**—Rates, North and South American service, 8 c per word.
- PARKSVILLE.**—Station operated and controlled by R. C. of A.
- PASSAIC BRIDGE.**—Station operated and controlled by S. O. R. S.
- PEARL SHELL.**—Range, 300; system, R. C. of A., 1000.
- PERSIAN.**—Range, 150.
- PETER H. CROWELL.**—System, Navy-Wireless Specialty Apparatus Co., 1000; w. l., 300, 450, 600.
- PIONEER (KIG).**—Range, 300; system, R. C. of A., 1000.
- PLAYA.**—Union Oil Co. owner of vessel.
- POTOMAC.**—Range, 200; system, Navy-Marconi, 1000.
- PRISCILLA.**—Range, 75.
- PUGET SOUND.**—Station operated and controlled by S. O. R. S.
- PULASKI.**—Name changed to Pulwico.
- QUINAULT (KDND).**—Rates, North and South American and transoceanic services, 8 c per word; station operated and controlled by owner of vessel.
- RED HOOK.**—Erie Basin Towing & Hoisting Co. owner of vessel.
- RELAY.**—Range, 300; system, Cutting & Washington, 1000; w. l., 300, 450, 600.
- ROSE MAHONEY.**—Andrew F. Mahoney Co. owner of vessel.
- SAC CITY.**—Station operated and controlled by I. W. T. Co.
- SACO.**—System, Kilbourne & Clark, 1000; w. l., 300, 450, 600.
- SAN ANTONIO.**—Rates, North and South American and transoceanic services, 8 c per word.
- SAN DIEGO.**—Rates, North and South American service, 8 c per word.
- SAN LORENZO.**—Range, 300.
- SANTA ALICIA.**—Range, 300; system, R. C. of A., 1000.
- SANTA MARTA.**—Range, 300.
- SANTA RITA (WBR).**—System, R. C. of A., 1000.
- SENATOR.**—Range, 300; system, Marconi, 1000; w. l., 300, 450, 600.
- SIERRA.**—Rates, North and South American service, 8 c per word.
- SISKIYOU.**—Rates, North and South American service, 8 c per word.
- STORM KING (KOGM).**—Rates, North and South American service 8 c per word.
- SUNEWCO.**—Station operated and controlled by R. C. of A.
- SURICHCO.**—Station operated and controlled by R. C. of A.
- SUTORPCO.**—Station operated and controlled by R. C. of A.
- SWIFT EAGLE.**—Read Swifteagle; system, R. C. of A., 1000.
- SWIFT WIND.**—Range, 300; system, R. C. of A., 1000; w. l., 300, 450, 600; station operated and controlled by R. C. of A.
- SYROS.**—Station operated and controlled by R. C. of A.
- THE HARVESTER.**—Range, 150; system, Marconi, 1000; w. l., 300, 450, 600.
- THEODORE ROOSEVELT.**—System, R. C. of A., 1000.
- WAHKEENA.**—Station operated and controlled by owner of vessel.
- WAPAMA.**—Station operated and controlled by owner of vessel.

- WESTERN CHIEF.—Station operated and controlled by R. C. of A.
 WEST DURFEE.—System, Navy-Kilbourne & Clark, 1000; w. l., 300, 450, 600.
 WEST FARALON.—Station operated and controlled by S. O. R. S.
 WEST HELIX.—System, Navy-Lowenstein, 1000; w. l., 300, 450, 600.
 WEST KASSON.—Station operated and controlled by I. W. T. Co.
 WEST LEWARK.—Station operated and controlled by S. O. R. S.
 WEST SEGOVIA.—Station operated and controlled by I. W. T. Co.
 WILLAMETTE.—Station operated and controlled by owner of vessel.
 WILLIAM PENN.—Station operated and controlled by S. O. R. S.
 WILLIMANTIC.—W. l., 300, 450, 600; hours, X.
 WM. BOYCE THOMPSON.—Hours, N; Sinclair Navigation Co. owner of vessel.
 YALE.—Los Angeles S. S. Co. owner of vessel.
 YALZA.—Range, 300; system, Federal arc; w. l., 300, 600, 1800.
 YOSEMITE.—Range, 300; w. l., 300, 450, 600.
 YUCCA.—Station operated and controlled by R. C. of A.
 ZULIA.—Range, 300.

Strike out all particulars of the following-named vessels:

J. B. Stetson.	McClellan.	Vancolite.
Manoa (KOQ).	Mount Rainier.	

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

KDRK, *read* Swifteagle; KUQL, *read* Pulwico. Strike out all particulars following the call signals, KDRG, KOQ, KYF, WSOE, WVUE.

SPECIAL LAND STATION, BY NAME OF STATION.

NORFOLK, VA.—(3ZC).—Strike out all particulars.

MISCELLANEOUS.

NORTH ATLANTIC ICE PATROL DISCONTINUED.

The Ice Patrol and Ice Observation Service was discontinued on June 30, last. (From Hydrographic Bulletin, July 6, 1921.)

CHANGE IN TIME SIGNAL.

The time signal on Kaiser Quay, Hamburg, Germany, is now made at local mean noon, middle European time (15° E. lon.), corresponding to 23 hours Greenwich mean time. (From Hydrographic Bulletin, June 29, 1921.)

RADIO STATION AT MARACAIBO, VENEZUELA.

The work of erecting towers for the new radio station at Maracaibo has been completed and the apparatus is now being installed. It is expected that the installation will be completed the latter part of June, this year. The station is equipped with a 5-kilowatt set with a rotary synchronous spark system. The towers are 164 feet (50 meters) high and the normal sending radius by day will be about 800 miles and by night about 1,600 miles. This station will be open to commercial service.

The Venezuelan Government has already definitely arranged for 7 additional wireless stations to be situated at Maracay, Caracas, Puerto Cabello, La Guaira, San Cristobal, Ciudad Bolivar, and Margarita Island. After all the above-mentioned stations are completed there are to be 16 additional stations installed to provide service for the capital of every State in Venezuela. (From daily Commerce Reports, June 29, 1921.)

FREE DISTRIBUTION OF RADIO SERVICE BULLETIN DISCONTINUED.

All persons, companies, and Government offices who are now receiving this publication are advised that this issue is the last to be furnished free. This order does not affect the various offices of this Department.

Copies of the new list of Commercial and Government Radio Stations of the United States, edition June 30, 1921, which probably will be ready for distribution about October 15 next, may be procured from the Superintendent of Documents, Government Printing Office, this city, at 15 cents per copy. The price of the Radio Service Bulletin is 5 cents per copy; subscription price, 25 cents per year. Subscriptions for these publications should not be addressed to this office, but to the Superintendent of Documents, Government Printing Office, Washington, D. C.

LICENSE SUSPENDED.

License No. 22084 has been suspended for a period of one month for violation of section 13 of the license for the reason that the holder of the license changed the equipment from 300 to 400 meters without being authorized to do so.

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