

# RADIO SERVICE BULLETIN

ISSUED MONTHLY BY BUREAU OF NAVIGATION, DEPARTMENT OF COMMERCE

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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—
Amnguig, P. I.....	KDRF	.....	.....	.....	Philippine Insular Government.
Chatham, Mass. <sup>1</sup> .....	WCC	300,450,600	PG	N	R. C. of A.
New Brunswick, N. J. <sup>2</sup>	WNY	300,450,600	PG	N	Do.
Nixon Fork, Alaska <sup>3</sup>	KDRY	300,600,1650	PR	X	Alaska Treadwell Gold Mining Co.
Ruby (permanently moored scow in Alaska). <sup>4</sup>	KDRH	300,400,600	PR	X	Alaska Packers Association.
San Francisco, Calif. <sup>5</sup>	KDRO	300,450,600,1605	PR	X	Bethlehem Shipbuilding Corp.

<sup>1</sup> Loc. (approximately) 0.70° 00' 00", N. 41° 42' 00"; range, 350; system, General Electric Co.; rates, ship service 10c. per word.

<sup>2</sup> Loc. 0.74° 29' 15", N. 40° 30' 10"; range, 250; system, R. C. of A., 120-240; rates, ship service 10c. per word.

<sup>3</sup> Loc. (approximately) 0.155° 30' 00", N. 62° 52' 00"; range, 300; system, Marconi, 480; rates, none.

<sup>4</sup> Loc. (approximately) 0.157° 02' 00", N. 58° 50' 00"; range, 15; system, Halcum; rates, none.

<sup>5</sup> Loc. 0.122° 23' 07", N. 37° 45' 15", range, 100; system, composite; rates, none.

*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.				
Acropolis.....	KDRI	.....	.....	PG	X	Stephen D. Stephendis.	
Agwihavre.....	KDRX	4	4	PG	X	Atlantic, Gulf & West Indies S. S. Lines.	I. W. T. Co.
Agwismith.....	KDRC	4	4	PG	N	do.	Do.
Argus <sup>1</sup> .....	KUVD	4	4	PG	X	U. S. Shipping Board.	S. O. R. S.
Buckeye State.....	KDRW	4	4	PG	N	do.	
Centennial State.....	KDRL	4	4	PG	N	do.	
Cuba.....	KDRT	.....	.....	PG	N	Peninsular & Occidental S. S. Co.	
Delphine.....	KDRR	.....	.....	.....	.....	Horace E. Dodge estate.	
E. W. Sinclair.....	KDRN	8	8	PG	X	Sinclair Navigation Co.	R. C. of A.
Henry D. Whiton.....	KDRM	.....	.....	PG	X	Union Sulphur Co.....	
K. R. Kingsbury <sup>2</sup> .....	KDRE	8	8	PG	X	Standard Oil Co. of Calif.	Do.
Luzon.....	KDRU	.....	.....	.....	.....	Fernandez Hermanos.	
Manulani.....	KDRQ	.....	.....	PG	N	Matson Navigation Co.	
Mindoro.....	KDRS	.....	.....	.....	.....	Philippine Insular Government.	
Mount Clinton.....	KDRV	.....	.....	PG	N	Shawmut S. S. Co....	
R. J. Hanna <sup>3</sup> .....	KDRD	8	8	PG	X	Standard Oil Co. of Calif.	R. C. of A.
Selma City.....	KDRJ	8	8	PG	N	U. S. Steel Products Co.	Do.
Suphenco.....	KDRP	.....	.....	PG	X	Submarine Boat Corp.	
Swift Eagle.....	KDRK	4	4	PG	X	U. S. Shipping Board.	
Vancolite.....	KDRG	.....	.....	PG	N	Standard Oil Co. of N. J.	

<sup>1</sup> Range, 200; system, Navy-Kilbourne & Clark, 1000; w. l., 300, 600.

<sup>2</sup> Range, 300; system, R. C. of A., 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.		
KDRC	Agwismith.....	b	KDRP	Suphenco.....	b
KDRD	R. J. Hanna.....	b	KDRQ	Mamiani.....	b
KDRE	K. R. Kingsbury.....	b	KDRR	Delphina.....	b
KDRF	Amuguis, P. I.....	c	KDRS	Mindoro.....	b
KDRG	Vancouver.....	b	KDRT	Cuba.....	b
KDRH	Ruby (permanently moored scow).....	c	KDRU	Luzon.....	b
KDRI	Acropolis.....	b	KDRE	Mount Clinton.....	b
KDRJ	Selma City.....	b	KDRW	Buckeye State.....	b
KDRK	Swift Eagle.....	b	KDRX	Agwihavre.....	b
KBRL	Centennial State.....	b	KDRY	Nixon Fork, Alaska.....	c
KDRM	Henry D. Whiton.....	b	KDUV	Argus.....	b
KDRN	E. W. Sinclair.....	b	WCC	Chatham, Mass.....	c
KDRO	San Francisco, Calif.....	c	WNY	New Brunswick, N. J.....	c

## 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—
Amagansett, N. Y. <sup>1</sup> .....	NBM	U. S. Navy Department.
Lakehurst, N. Y. <sup>1</sup> .....	NEL	Do.

<sup>1</sup> Radio compass station.

## 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—
Alliance, Ohio.....	8YT	Mount Union College.
Austin, Tex.....	5ZAG	George E. Endress.
Baltimore, Md.....	3ZU	Southern Wireless Institute.
Biloxi, Miss.....	5ZAH	Hubert S. Ogden.
Bloomington, Ind.....	9YAG	Indiana University.
Casper, Wyo.....	7ZO	Norman R. Hood.
Cincinnati, Ohio.....	8YX	University of Cincinnati.
Cleveland, Ohio.....	8XV	Frederick S. McCullough.
Corvallis, Oreg.....	7YJ	Oregon Agricultural College.
Dayton, Ohio.....	8YU	Young Men's Christian Association.
Denver, Colo.....	9XAG	Harry H. Buckwalter.
Easton, Pa.....	3YO	Lafayette College.
Ellendale, N. Dak.....	9ZX	H. J. Goddard and E. S. Leavenworth.
Norristown, Pa.....	3ZV	Samuel W. Place.
Oakland, Calif.....	6XAF	Pacific Telephone & Telegraph Co.
Peoria, Ill.....	9XAF	Bradley Institute.
Portland, Oreg.....	7YH	Washington High School.
San Antonio, Tex.....	5ZAE	Leavell D. Wall.
San Francisco, Calif.....	6XAE	The Radio Telephone Shop.
San Jose, Calif.....	6ZAA	E. Garratt Arnold.
Seattle, Wash.....	7XJ	Charles W. Peterson.
Springfield, Ohio.....	8ZAA	J. Warren Wright.
Thibodaux, La.....	5YL	Thibodaux High School.
Villanova, Pa.....	3YP	Villanova College.
Waco, Tex.....	5ZAF	William P. Clarke.
Washington, D. C.....	3YL	Knights of Columbus Service School.

*Special land stations grouped by districts.*

Call signal.	District and station.	Call signal.	District and station.
3YL 3YO 3YP 3ZU 3ZV	Third district: Washington, D. C. Easton, Pa. Villanova, Pa. Baltimore, Md. Norristown, Pa.	7XJ 7YH 7YJ 7ZO	Seventh district: Seattle, Wash. Portland, Oreg. Corvallis, Oreg. Casper, Wyo.
5YL 5ZAE 5ZAF 5ZAG 5ZAH	Fifth district: Thibodaux, La. San Antonio, Tex. Waco, Tex. Austin, Tex. Biloxi, Miss.	8XV 8YT 8YU 8YX 8ZAA	Eighth district: Cleveland, Ohio. Alliance, Ohio. Dayton, Ohio. Cincinnati, Ohio. Springfield, Ohio.
6XAE 6XAF 6ZAA	Sixth district: San Francisco, Calif. Oakland, Calif. San Jose, Calif.	9XAF 9XAG 9YAG 9ZX	Ninth district: Peoria, Ill. Denver, Colo. Bloomington, Ind. Ellendale, N. Dak.

**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.]

**AKUTAN, ALASKA.**—Range, 150.

**BECHAROF, ALASKA.**—Range, 200; system, Kilbourne & Clark, 120; w. l., 300, 500, 600.

**BOLINAS, CALIF.**—(KET) Location, 0. 122° 42' 30", N. 37° 54' 12"; range, 6000; w. l., 5860, 6700, 7020; rates, from Bolinas or San Francisco, Calif., to Kahuku or any point on the island of Oahu, Hawaii, 25c. per word; Government rate 12½c. per word; press rate 5c. per word. Lettergrams \$1 for the first 12 words and 8c. for each additional word; week-end lettergrams \$1.50 for the first 24 words and 6c. for each additional word. From Bolinas or San Francisco, Calif., to Japan 72c. per word; Government rate 36c. per word; press rate 27c. per word.

**CHISIK ISLAND, ALASKA.**—Range, 300; system, composite, 600; w. l., 300, 550, 600, 1650; service PR, hours, X; rates, none.

**CLEVELAND, OHIO (WCX).**—Range, 400; w. l., 300, 600, 1640, 2050; hours, 7 a. m.—9 p. m.

**DETROIT, MICH.**—W. l., 300, 600, 1850, 3062; hours, 7 a. m.—9 p. m.

**FALSE PASS, ALASKA.**—W. l., 300, 525, 600, 2000.

**KAHUKU, HAWAII.**—Range, 4000; w. l., 300, 600, 16435; service, PR; rates, from Kahuku or any point on the island of Oahu to Bolinas or San Francisco, Calif., full rate 25c. per word, Government rate 12½c. per word; lettergrams \$1 for the first 12 words, 8c. for each additional word; week-end lettergrams \$1.50 for the first 24 words, 6c. for each additional word; press 5c. per word. From Kahuku to Japan 60c. per word.

**KARLUK, ALASKA.**—Range, 25; w. l., 300, 500, 600.

**KING COVE, ALASKA.**—In addition to rates previously reported—station to station 6c. per word, minimum 60c., domestic count.

**KOGGIUNG, ALASKA (KUBX).**—Range, 20; w. l., 300, 400, 600, hours, X.

**KOGGIUNG, ALASKA (KVV).**—Rates, 6c. per word, minimum 60c.

**KUSSILOF, ALASKA.**—Range, 200.

**KVICHAK, ALASKA.**—Range, 200.

**KWIGUK SLOUGH, ALASKA.**—Service, PG and PR; rates, ship service 6c. per word, no minimum; station to station 6c. per word, minimum 60c., domestic count; station to station (night message) 5c. per word, minimum 50c., domestic count; station to station (night letter) 60c. for 50 words and 12c. for each additional 10 words or fraction thereof.

**LAZY BAY, ALASKA.**—Hours, 8 a. m.—12 noon and 1-5 p. m., and such other times as may be necessary.

**LIBBYVILLE, ALASKA.**—Service, PG and PR.

**METHA NELSON.**—Range, 25; system, Marconi; w. l., 300, 400, 600.

**NAKNEK, ALASKA.**—Range, 300.

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

- NUSHAGAK, ALASKA.**—Location (approximately),  $0. 158^{\circ} 30' 00''$ , N.  $59^{\circ} 00' 00''$ , range, 300; system, Kilbourne & Clark, 1000; w. l., 300, 600, 1600; service, PR; hours, X.
- PILOT POINT, ALASKA.**—Range, 200; system, Kilbourne & Clark, 1000; w. l., 300, 500, 600.
- PORT WALTER, ALASKA.**—W. l., 300, 500, 600; service, PG and PR.
- SNAG POINT, ALASKA.**—Range, 200.
- TELLER, ALASKA.**—Strike out all particulars.
- UYAK, ALASKA.**—Range, 300.
- WASHINGTON BAY, ALASKA.**—W. l., 300, 550, 600, 1650.

## 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.]

- ADMIRAL GOODRICH.**—Range, 300; w. l., 300, 450, 525, 600.
- ADMIRAL WATSON.**—Range, 300; w. l., 300, 550, 600.
- AGWISTAR (KDPO).**—Read Agwistone; range, 200; system, I. W. T. Co., 1000; w. l., 300, 450, 600; hours, X.
- ALADDIN.**—Range, 300; system, Marconi, 1000; w. l., 300, 600; rates, North and South American and transoceanic services 8c per word; station operated and controlled by R. C. of A.
- ALPENA.**—Range, 200.
- ANNAPOLIS.**—Range, 150; system, Marconi, 1000; service, PG; hours, X; rates, North and South American and transoceanic services 4c per word.
- ASTMAHCO III.**—Astmahco 3 (Inc.), owner of vessel.
- ASTMAHCO IV.**—Astmahco 4 (Inc.), owner of vessel.
- BESSEMER CITY.**—Range, 300; system, Marconi, 1000; w. l., 300, 450, 600; hours, X.
- BIRCHLEAF.**—U. S. Shipping Board owner of vessel.
- BRILLIANT.**—Range, 150.
- CAJACET.**—Name changed to Willsolo.
- CHARLES L. HUTCHINSON.**—Rates, Great Lakes 2c per word.
- CHINA.**—Range, 300.
- CITY OF BRUNSWICK.**—Station operated and controlled by R. C. of A.
- CITY OF PARA.**—Range, 200; system, Kilbourne & Clark, 1000; hours, N; rates, none for transoceanic service.
- CORSAIR.**—Station operated and controlled by owner of vessel.
- COTE BLANCHE.**—Range, 200; system, Navy, 1000.
- CURRIER.**—Rates, transoceanic 4c per word.
- EAGLE (KDBF).**—Station operated and controlled by owner of vessel.
- EASTERN ADMIRAL.**—Station operated and controlled by S. O. R. S.
- EASTERN TRADER.**—Station operated and controlled by I. W. T. Co.
- EL ORIENTE.**—Range, 150; hours, X.
- F. C. LATROBE.**—Range, 150; system, Marconi, 1000; service, PG; hours, X; rates, North and South American services 4c per word.
- FEARLESS.**—Range, 200; service, PG; hours, X; rates, North and South American service 4c per word; transoceanic 8c per word.
- FRANK G. DRUM.**—Associated Oil Co. owner of vessel.
- FRANKLIN.**—Range, 300; system, Westinghouse, 1000; w. l., 300, 450, 600; rates, North and South American and transoceanic services 8c per word; station operated and controlled by I. R. T. Co.
- FREDERIC EWING.**—Range, 150.
- GALVESTON.**—Station operated and controlled by I. W. T. Co.
- GDANSK.**—Range, 300; system, R. C. of A.; 1000; w. l., 300, 450, 600.
- GRANITE STATE.**—Range, 300; system, Marconi, 1000; w. l., 300, 450, 600.
- GULFSTREAM.**—Range, 200; system, I. W. T. Co., 1000.
- GULF COAST.**—Rates, North and South American and transoceanic services 4c per word; station operated and controlled by I. W. T. Co.
- GULFKING.**—Range, 200; system, I. W. T. Co., 1000; rates, North and South American and transoceanic services 4c per word.
- GULFLAND.**—Range, 200; system, I. W. T. Co., 1000; rates, North and South American and transoceanic services 4c per word.
- GULFLIGHT.**—System, I. W. T. Co., 1000; rates, North and South American and transoceanic services 4c per word; station operated and controlled by I. W. T. Co.
- GULFMAID.**—Rates, North and South American and transoceanic services 4c per word; station operated and controlled by I. W. T. Co.

- GULF OF MEXICO.—Rates, North and South American and transoceanic services 4c per word; station operated and controlled by I. W. T. Co.
- GULFOIL.—System, I. W. T. Co., 1000.
- GULF PRINCE.—Rates, North and South American and transoceanic services 4c per word; Gulf Refining Co. owner of vessel; station operated and controlled by I. W. T. Co.
- GULF QUEEN.—Range, 200; system, I. W. T. Co., 1000; rates, transoceanic 4c per word.
- GULFSTAR.—Range, 200; system, I. W. T. Co., 1000; rates, North and South American and transoceanic services 4c per word.
- GULFSTREAM.—Rates, transoceanic 4c per word.
- GULFTRADE.—Range, 200; system, I. W. T. Co., 1000; rates, North and South American and transoceanic services 4c per word.
- IROQUOIS (KUTQ).—Rates, Great Lakes service 2c per word.
- ITOMPA.—Rates, transoceanic service 4c per word; U. S. Shipping Board owner of vessel.
- J. A. MOFFETT.—Range, 300; w. l., 300, 600, 1800.
- JEFFERSON (KOD).—W. l., strike out 450; hours, X; station operated and controlled by owner of vessel.
- JEFFERSON (WAJ).—Range, 250; w. l., 300, 550, 600.
- J. M. GUFFEY.—System, I. W. T. Co., 1000; rates, North and South American and transoceanic services 4c per word.
- JUNIATA (KQJ).—Range, 150.
- KERESAN.—Name changed to Mount Seward.
- LAKE ENNIS.—Station operated and controlled by R. C. of A.
- LAKE FARBER.—Station operated and controlled by I. W. T. Co.
- LAKE PLEASANT.—System, Navy, 1000.
- LIEBRE.—Range, 200; system, I. W. T. Co., 1000; w. l., 300, 450, 600; rates, North and South American and transoceanic services 4c per word; station operated and controlled by I. W. T. Co.
- MATSONIA.—Range, 300.
- MERRIMACK.—Range, 150.
- MINEOLA.—Range, 150; w. l., 300, 450, 600.
- MOFFITT.—Station operated and controlled by R. C. of A.
- MUSCATINE.—Station operated and controlled by I. W. T. Co.
- OTSEGO.—Station operated and controlled by S. O. R. S.
- POCAHONTAS.—Range, 300; system, Marconi, 1000; w. l., 300, 450, 600.
- PLEIADES.—Range, 300; system, Marconi, 1000; w. l., 300, 450, 600.
- PRINCESS MATOIKA.—Range, 300; system, Navy, 1000; w. l., 300, 450, 600.
- PRINCETON.—Range, 300.
- RADIANT.—Range, 150.
- RAMA.—Range, 200.
- REPUBLIC.—Station operated and controlled by Cutting & Washington Radio Corp.
- ROBERT P. CLARK.—Range, 200; system, I. W. T. Co.; rates, transoceanic service 4c per word.
- SANTA ISABEL.—Range, 150; system, Marconi, 1000; w. l. 300, 450, 600.
- SANTA LEONORA.—Station operated and controlled by R. C. of A.
- SEA MONARCH.—Range, 150; system, Marconi, 1000.
- SEMINOLE.—W. l., strike out 450.
- SENATOR BAILEY.—Rates, transoceanic, service 4c per word.
- SHENANGO.—Range, 200; system, I. W. T. Co., 1000.
- S. O. Co. No. 93.—Range, 150.
- SOCONY 85.—Range, 150; system, composite, 1000.
- SOCONY 88.—Range, 150.
- SOPHIE FRANKEL.—Name changed to Wisconsin Bridge.
- STAR OF HOLLAND.—Range, 150; system, Marconi, 1000; station operated and controlled by owner of vessel.
- SUCROSA.—W. l., 300, 450, 600.
- SWIFTSURE.—Range, 300; system, Marconi 1000; w. l., 300, 450, 600.
- TIVIES.—Range, 300.
- TRINIDADIAN.—System, I. W. T. Co., 1000; rates, North and South American and transoceanic services 4c per word; station operated and controlled by I. W. T. Co.
- TUXPANOIL.—Station operated and controlled by S. O. R. S.
- WABASH.—French-American Line owner of vessel.
- WACHUSETT.—Strike out I. W. T. Co.
- WESTERN QUEEN.—Station operated and controlled by R. C. of A.
- WEST ISLIP.—Station operated and controlled by I. W. T. Co.

WEST WIND.—Station operated and controlled by S. O. R. S.  
 WILD DUCK.—Station operated and controlled by I. W. T. Co.  
 WINIFRED.—System, I. W. T. Co., 1000; rates, transoceanic 4c per word.  
 Strike out all particulars of the following ship stations:

Agwistone (KDQP).	Edna.	Kamchatka.	Octorara.
Arlington.	Evangelina.	Kanabec.	Oregon (WOC).
Aztec.	Franklin (KDQK).	Lackawanna.	Rebecca Palmer.
Bassan.	Governor Brooks.	Mariana.	Roy Hooper.
Brandon.	H. C. Cadmus.	Matos.	Santurce.
Brookside.	Hewitt.	Moldegaard.	Wahkiakum.
Cape Cod.	Isabela.	Montoso.	Wyoming.
Corozal.	James Timpson.	Oakley C. Curtis.	Yosemite.
Dorothy Palmer.	Jane Palmer.		

The rate for the following-named vessels which are operated and controlled by the Radio Corporation of America will be 8 cents per word for both the North and South American and the transoceanic service, effective May 1, this year:

A. C. Bedford.	Charles M. Everest.	Ernest H. Meyer.	I. D. Fletcher.
Admiral Evans.	Charles Pratt.	Estrada Palma. <sup>1</sup>	Intropid.
Admiral Goodrich.	Charlie Watson.	Eugene V. R. Thayer.	Iris.
Admiral Mayo.	Charlton Hall.	Eurana.	
Admiral Nicholson.	Chester Sun.	Everett (KZT).	J. A. Bostwick.
Admiral Rodman.	Chickasaw City.		James McGee.
Admiral Schley.	China.	Fairmont.	J. A. Moffett.
Admiral Sebree.	China Arrow.	F. D. Asche.	Japan Arrow. <sup>1</sup>
Admiral Watson.	Chinampa.	Feltore.	J. C. Donnell.
Algonquin (KDKH).	Chincha.	Firmore.	J. E. O'Neill.
Amelia.	Christabel.	Florida (KUS).	J. Fletcher Farrell.
America.	Cirrinus.	Fordonian.	J. M. Danziger.
American Star.	City of Atlanta.	F. Q. Barstow.	John D. Rockefeller.
Ampetco.	City of Augusta.	Franklin (WFF).	John R. Gibbons.
Amphion.	City of Bangor.	Franklin K. Lane. <sup>1</sup>	John Worthington.
Annetta.	City of Columbus.	Frederic Ewing.	Jonancy.
Antigone.	City of Everett.	Frederick R. Kellogg.	Joseph M. Cudahy. <sup>1</sup>
Ardmore.	City of Montgomery.	Fred W. Weller.	Joseph R. Parrott.
Argon.	City of Rockland.	Freedom.	Joseph Seep.
Argonne.	City of Rome.	Freeman.	Josiah Macy.
Ario.	City of Savannah.	Freeport Sulphur No. 1.	J. W. VanDyke.
Astral.	City of Seattle.	Freeport Sulphur No. 2.	
Astrea.	City of St. Louis.	Freeport Sulphur No. 5.	Kamchatka.
Asuncion.	Clarksburg.	Freeport Sulphur No. 6.	Katherine.
Atlantic Sun.	Clauseus.	Fueloil.	Koresan.
Atlas.	Clement Smith.	Garfield. <sup>1</sup>	Korosaapa.
Avalon (WFH).	Cincho.	Gargoyle. <sup>1</sup>	Kermanshah.
	Coastwise.	Gdansk.	Kermit.
Bantu.	Col. E. L. Drake.	Gene Crawley.	Kermoor.
Baton Rouge.	Colusa.	George B. MacKenzie.	Kosciusko.
Baytown.	Comet.	George G. Henry.	Lancaster.
Bayway.	Communipaw.	George H. Jones.	Liberty Land.
Belfast.	Cora F. Cressy.	George Washington. <sup>1</sup>	Livingstone Roe. <sup>1</sup>
Benjamin Brewster.	Corning.	George W. Barnes.	L. J. Drake.
Bessemer City.	Corvus.	Glendola.	Lurline.
Birmingham City.	Cotopaxi.	Glenpool.	Lydia.
Bradford.	Crampton Anderson.	Glen White.	
Brammel Point.	Crafter Hall.	Glyndon.	Maine.
Bremerton.	Crofton Hall.	Gold Shell.	Malden.
Brilliant.	Crudoil.	Governor.	Mangora.
Brindilla.	Cuboro.	Governor Brook.	Manoa (WMQ).
Bristol.	Curacao.	Governor Cobb.	Maracaibo.
Broad Arrow.		Governor Dingley.	Marina.
Brynilds.	Dawnlite.	Gratia.	Mariner.
Buccaneer.	Daylite.	Gulfport.	Mariners Harbor.
Bylail.	Dayton.	Hampden.	Mary Luckenbach.
	Deepwater.	Harold Walker.	Mascotto.
Cabrillo.	Democracy.	Harry Farnum.	Matinicock.
C. A. Canfield.	De Soto.	H. C. Folger.	Matsonia.
Caedque.	Dewey.	Henry M. Flagler.	Maul.
Caddo.	D. G. Schofield.	Hera.	Maunakea.
Caldas.	Dochra.	Herbert G. Wylie.	Maratlan.
Caloria.	Dulcino.	Herbert L. Pratt.	Melroso.
Calvin Austin.	Durham.	Herman Winter.	Mexicano.
Camden (KRC).		Hermosa.	Mexoil.
Canibas.	Eagle (KIR).	H. F. Dimock.	M. F. Elliott. <sup>1</sup>
Capt. A. F. Lucas.	Edward J. Lawrence.	H. H. Rogers.	Miami.
Caracas.	Edward L. Doheny.	H. M. Flagler.	Mid-Ilsex.
Carolinian.	Edward L. Doheny, jr.	H. M. Whitney.	Mineola.
Casiana.	E. L. Doheny, Third.	Howick Hall.	Mobile City.
Cello.	El Capitan (WNB).	Humboldt.	Montgomery City.
Centaurus.	El Dorado.	Hyader.	Monticello.
Cerro Azul. <sup>1</sup>	Elisha Walker.		Montpellier.
Charles Braley.	El Segundo.	Ice King.	Montroite.
Charles E. Harwood.	Ensley City.	I. C. White.	Moonlite.
Charles H. Cramp.	Enterprise.		

<sup>1</sup> Not reported before as being operated and controlled by Radio Corporation of America.

Mount Baker.	Poznan.	S. O. Co. No. 91.	Thomas H. Wheeler.
Mount Ranier.	President.	S. O. Co. No. 93.	Tidewater.
Mount Sidney.	Princess Matoika. <sup>1</sup>	S. O. Co. No. 95.	Tiger.
Mount Sterling.	Princeton.	Socony.	Tormentor.
Mount Summit.	Pulaski.	Socony No. 82.	Transportation.
Multnomah.	Queen.	Socony No. 83.	Trinidadian.
Munaires.	Radiant.	Socony No. 84.	Trontolite.
Munibro.	Rajah.	Socony No. 85.	Tunica.
Munamar.	Ransom B. Fuller.	Socony No. 88.	Tuscaloosa City.
Mundale.	Rayo.	Socony No. 89.	Vacuum.
Mundelta.	Redondo (WBM).	Socony No. 90.	Vesta.
Munindies.	Restorer.	Socony No. 92.	Volant.
Munisia.	Richmond (WTR).	Socony No. 94.	Wabash.
Munplace.	Rochester.	Somerset.	Wahkeena.
Munrio.	Rose City.	Sophie Frankel.	Walter D. Munson.
Munsomo.	Royal Arrow.	Spokane.	Walter Hardcastle.
Munwood.	Ruth E. Merrill.	Standard (KIC).	Walter Jennings. <sup>1</sup>
Muskogee.	Sabine Sun.	Standard (KXOI)	Wapama.
Nacoochee.	Sagadahoc.	Standard II.	Warszawa.
Nanking.	Samuel L. Fuller. <sup>1</sup>	Standard Arrow.	W. B. Keene.
Nelson.	San Francisco.	Standtow No. 1.	W. C. Teagle.
New Britain.	Santa Alicia.	Standtow No. 2.	Wellington.
Newton.	Santa Ana (WBX).	Standtng No. 1.	West Cavanal.
Niobe. <sup>1</sup>	Santa Barbara.	St. Charles.	West Cawthon.
Nora.	Santa Cecilia.	Steel Age.	West Irmo.
Norfolk.	Santa Clara.	Steel Engineer.	West Islay.
Norlina.	Santa Cruz.	Steel Exporter.	Westoil.
Norman Bridge.	Santa Elisa.	Steel Inventor.	Westwego.
Northern Star.	Santa Eulalia.	Steel Maker.	W. H. Libby. <sup>1</sup>
Northland (KJD).	Santa Flavia.	Steel Mariner.	W. H. Tilford.
Oregon (WGD).	Santa Inez.	Steel Ranger.	Wico.
Oregon (WOC).	Santa Isabel.	Steel Trader.	Wilhelmina.
Orient.	Santa Luisa.	Steel Worker.	Willamette.
Orinoco.	Santa Malta.	Subostco.	Willfaro.
Orleans.	Santa Olivia.	Sucrosa.	William Green.
Oscar D. Bennett.	Santa Paula.	Sudbury.	William H. Doheny.
Oswego.	Santa Rita (WBR).	Suedco.	William Isom.
O. T. Waring.	Santa Rita (WTG).	Suelco.	William N. Page.
Owego.	Santa Rosa.	Suffolk.	Willpolo.
Pan American.	Santa Rosalia.	Sun.	Windber.
Panoil.	Santa Tecla.	Sunbeam.	Winding Gulf.
Panuco (KMM).	Santa Teresa.	Sunlite.	Wisla.
Paraguay.	Santa Veronica.	Sunoil.	W. J. Hanna. <sup>1</sup>
Paul H. Harwood.	Santore.	Sunshine.	W. L. Steed.
Paulsboro.	Satsuma.	Suportco.	W. M. Burton.
Pawnee (WLU).	Saxon.	Suruga.	Wm. G. Warden.
Pearl Shell.	S. B. Hunt.	Susana.	W. M. Irish.
Pennant.	S. C. T. Dodd.	Susquehanna (KOLN).	Woonsocket.
Perfection.	Security.	Susquehanna (WEM).	W. S. Miller.
Philadelphia (KDA).	Senator.	Sutransco.	Yukon.
Philip Publicker. <sup>1</sup>	Sewalls Point.	S. V. Harkness.	Zulia.
Pioneer (KIG).	Sherman.	Swift Arrow. <sup>1</sup>	
Plymouth (KND).	Shooters Island.	Swift Star. <sup>1</sup>	
Pocahontas.	Silver Shell.	Swift Sure.	
Polarine.	S. M. Spalding.	Sylvan Arrow.	
		Tanesi.	
		Tancarville.	

<sup>1</sup> Not reported before as being operated and controlled by Radio Corporation of America.

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

KDPO, read Agwistone; KIBM, read Wisconsin Bridge; KUDL, read Willsolo; WJC, read Mount Seward. Strike out all particulars following the call signals KDQK, KDQP, KEMV, KEZS, KGW, KII, KIL, KIPT, KMJ, KNIA, KNR, KOP, KPY, KPW, KPZ, KQIA, KQL, KQT, KQW, KRIO, KUJG, KVT, KWT, KZC, KZY, KZZ, WCQ, WKY, WMII, WNY (New York), WOC, WQEI, WQY, WRAA, WTA, and WWZ.

#### 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.]

CAPE HENRY, VA.—Read Virginia Beach, Va.  
 DAMISCOVE ISLAND, ME.—Strike out all particulars.  
 GRAND HAVEN, MICH.—Strike out all particulars.  
 MOOREHEAD CITY, N. C.—Read Morehead City, N. C.  
 NEW LONDON, CONN.—Strike out all particulars.  
 PUGET SOUND, WASH.—Read Puget Sound, Wash. (Bremerton), NPZ.  
 ROCKAWAY BEACH, N. Y.—Call signal changed to NBT.  
 SMITH ISLAND, VA.—Strike out all particulars.  
 WATCH HILL, R. I.—Strike out all particulars.  
 WILMINGTON, N. C.—Strike out all particulars.



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

NAH, read NBT; NAN, read Morehead City, N. C.; NCZ, read Virginia Beach, Va.; NPC, read NPZ, Puget Sound, Wash. (Bremerton). Strike out all particulars following the call signals, NAF (Watch Hill, R. I.); NCZ (Smith Island, Va.); NFQ, NRZ, NSY, and NWN.

## SPECIAL LAND STATIONS, BY NAMES OF STATIONS.

SAN FRANCISCO, CALIF. (6XO).—Strike out all particulars.  
VALLEY CITY, N. DAK. (9ZX).—Strike out all particulars.

## MISCELLANEOUS.

## OPERATOR'S LICENSE SUSPENDED.

First-grade license No. 20084, issued at Baltimore, Md., October 17, 1919, has been suspended for a period of three months on account of the holder of the license violating article 6 of the International Convention service regulations, in that he caused superfluous signals to be transmitted.

## ALASKAN STATIONS NOT OPERATING.

This Bureau has been informed that the radio stations at Cape Edwards, Alaska (KEY), and Port Althorp, Alaska (KLW), will not open this season.

## AMENDMENTS.

The Radio Laws and Regulations of the United States, edition August 15, 1919, are hereby amended as follows:

Paragraph 153, page 67, amended April 9, 1921, is modified by the addition of the following proviso: "provided that such renewal of licenses may also be issued in the discretion of the radio inspector where the service record on the back of the license shows 12 months satisfactory service during the two-year period of the license."

## GENERAL INFORMATION FROM THE BERNE INTERNATIONAL BUREAU.

*Cyrenacia, Erythrea, Italian Somaliland, and Tripolitana.*—Since February 1, last, the coast charge for radiotelegraph stations situated in these colonies has been 0 fr. 60 per word.

*Ecuador, Czechoslovakia, Venezuela, and China.*—These countries adhered to the International Convention on the following dates: Ecuador, April 17, 1920; Czechoslovakia, April 23, 1920; Venezuela, August 13, 1920, and China, September 1, 1920.

*Hungary.*—The radiotelegraph station of Csepel will transmit, each day, at 11.30 a. m. (Central European time) the bulletin of the Meteorological Institute and the earth's magnetism to Budapest.

*Dutch East Indies.*—Working hours for the coast station Sitoebondo are as follows: Week days and holidays, 7-8 a. m., 11-12 a. m., 1.30-7 p. m., 10-11 p. m.; Sunday, 1.30-7 p. m.

*Turkey.*—Normal time has been reestablished in this country.

*French East Africa.*—The Minister of French Colonies advises that the following class of radiotelegrams are not admitted: Radiotelegrams with paid reply, mandatory radiotelegrams, radiotelegrams with collections, radiotelegrams asking receipted acknowledgement, radiotelegrams with charges to follow, radiotelegrams with service taxes, and urgent radiotelegrams.

*France, Algeria, and Portugal.*—The legal time in these countries has been advanced one hour.

## WATCH HOURS ON FRENCH VESSELS.

Under date of March 1, last, the Berne International Bureau transmitted the table herewith reproduced, indicating the watch hours which have been in effect since January 1, last, on French vessels of the second and third class and operated by the "Radio-Electric Exploitation Co."

Position of zones.	Zone limits.		Hours of watch, mean time, Greenwich.	
	West.	East.	1 operator.	2 operators.
A { East Atlantic; Mediterranean; North Sea; Baltic; West Arctic Ocean.	Meridian 30 W. East coast of Greenland to the E. of 30 W.	Meridian 30 E. to the south African coast; coast of Africa to the west of 30 E. Limits east of the Mediterranean, Black, and Baltic Seas. Meridian 30 E. of N. Norway.	8-10 12-14 16-18 20-22	0-6 8-14 16-18 20-22
B { Indian Ocean; East Arctic Ocean.	Limit east of zone A.....	Meridian 90 E.....	0-2 12-14 16-18 20-22	0-2 4-10 12-14 16-18 20-24
C { China Sea; West Pacific Ocean.	Limit east of zone B.....	Meridian 160 E.....	0-2 4-6 12-14 20-22	0-6 8-10 12-14 16-22
D { Central Pacific Ocean...	Limit east of zone C.....	Meridian 140 W.....	0-2 4-6 8-10 20-22	0-2 4-6 8-10 12-18 20-24
E { East Pacific Ocean.....	Limit east of zone D.....	Meridian 70 W. to the south coast of Argentina; west coasts of the two Americas.	0-2 4-6 16-18 20-22	0-2 4-6 8-14 16-22
F { West Atlantic Ocean; Gulf of Mexico.	Meridian 70 W. South of the coast of Argentina; east coasts of the two Americas.	Meridian 30 W. up as far as the coast of Greenland to the west of meridian 30 W.	0-2 12-14 16-18 20-22	0-2 4-10 12-18 20-22

<sup>1</sup> In the Red Sea the watch period 12-14 will be reported as 6-8 in the morning.

## WEATHER CODE FOR VESSEL WEATHER OBSERVERS.

The U. S. Weather Bureau will issue a new edition of its "Radiographic Weather Code for Vessel Weather Observers," which will become effective June 1, 1921, and supersede all previous editions.

The new code book will be ready for distribution about May 1, 1921, and it is expected that the edition will be sufficient for the requirements of all vessel weather observers as well as all Government-controlled vessels having need for it. Application should be made in person or by letter to the Weather Bureau offices in Washington, D. C., New York, New Orleans, Seattle, San Francisco, or Honolulu. If practicable, the old code book should be returned with the application for the new code.

The principal changes in the code are as follows: Time of observation changed from 6 a. m. and 6 p. m. to 7 a. m. and 7 p. m., seventy-fifth meridian time. Position of ships to be reported to nearest six minutes of latitude and longitude instead of to nearest even minute.

No change has been made in the code words except those pertaining to ship's position. The tables containing these words have been simplified and the number of words materially reduced. In all other respects radiograms prepared from the new code can be decoded by use of previous code books.

Masters of ships are requested to secure a copy of the new code book as soon as possible; but to provide for unavoidable delays the new code words for ship's position will be published in early issues of the Hydrographic Office Pilot Chart.

Observers are urged to read the few pages of text carefully and as soon after receipt of the book as is possible, as minor changes have been made which affect some of the details of the observation work.—From *Hydrographic Bulletin*, April 20, 1921.

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