RADIO SERVICE BULLETIN

ISSUED MONTHLY BY BUREAU OF NAVIGATION DEPARTMENT OF COMMERCE

Washington, May 1, 1920-No. 37

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DEPARTMENT OF COMMERCE, BUREAU OF NAVIGATION, Washington, August 1, 1919.

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

This publication, which was discontinued during the war, 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.

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 Aug. 15, 1919) 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 Bullctin from time to time, as occasion warrants.

E. T. CHAMBERLAIN, Commissioner of Navigation.

Approved:

WILLIAM C. REDFIELD, Secretary of Commerce.

NEW STATIONS.

COMMERCIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

| Station. | Call signal. | Wave lengths. | Service. | Нонга. | Station controlled by— |
|---|-----------------|---|----------------------------------|------------------|--|
| Boston, Mass. 1 New York, N.Y Ogden, Utah Philadelphia, Pa Seattle, Wash.3 Wahiawa, Hawaii (| WHE | 300, 600, 1700 200, 425 300, 600, 1700 300, 600, 1700 300, 450, 525, 600 300, 550, 600 | PG PR PR PR PG PG | N X X N | Tropical Raido Telegraph Co. John Wanamaker. Ogden-Portland Cement Co. John Wanamaker. City of Seattle, Harbor Department. Mutual Telephone Co. |

COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

| | | Ra | tes. | | | • | |
|---|--|--|-------------------------------|--|-----------------------|---|--|
| | Call signal. | North and South Ameri- can service. | Trans- oceanic service. | Serv- ice. | Hours. | Owner of vessel. | Station con- trolled by— |
| Arcturus Artigns Çapillo Cathwood Chappaqua Chickasaw City City of Vernon Conehatta Conness Peak Crudoil | KURD KURG KUPM KURC KURF KUNZ KUNZ KUPL KUQD | Cents. 4 4 4 4 4 4 | Cents. 4 4 4 4 4 4 | PG PG PG PG PG PG PG PG | X X N X X | Nafra Co. U. S. Shipping Board. do. do. U. S. Steel Products Co U. S. Shipping Board. do. do. Pan-American Petro- leum & Transport Co. Ore S. S. Corporation. | I. W. T. Co. R. C. of A. |
| Darden. Bastorn Crown Bastorn Dawn Bastern Dawn Bastern Glade Bastern Ocean Eastern Vean Eastern Victor Everett | RUPK KUNQ KUQT KUND KUNF KUPD KUNR KUQR | 4 4 4 4 4 4 | 4 4 4 4 4 | PG PG PG PG PG PG PG | N | U. S. Shipping Boarddododododododo. | Do. Do. S. O. R. S. I. W. T. Oo. S. O. R. S. |
| Evergreen City Fishers Island Freeport Sulphur No. 6. Fueloll | KUNJ KUPZ KUNP KUQB | 4 4 | 4 4 1 | PG PG PG | X | U.S. Shipping Boarddo | R. C. of A. |
| Jeorge B. MacKenzie. Greenland. Hahatonka. Hawarden. Hinckley. tolia. | KUNT KUPG KUPF KUPX KURB KUPB | 4 4 4 4 | 4 4 4 4 | PG PG PG PG PG | X N X | leum & Transport Co. American Bauxite Co. U. S. Shipping Board. do. do. Submarine Boat Cor- | Do. S. O. R. S. Do. R. C. of A. |
| lennie R. Morse F. Penrose uvigny Kehuku ake Gunni ake Harminja | KUQN KUQX KUPV KUNC | 4 4 4 | 4 4 4 4 | PG PG PG PG PG PG | X X N X | poration. U. S. Shipping Board. do Independent S. S. Co U. S. Shipping Board. do | |

Rates, 12 cents per word for all classes of service; no minimum.
 Open from 9 a. m. to 5 p. m.
 Rates, shipping traffic, free; private business, 6 cents per word.
 Rates, ship service, 6 cents per word, no minimum; interisland service, 15 cents per word, no minimum; interisland night letter, 25 words, 31; cach additional word, 4 cents; relay charges, ship to islands of Hawaiian group other than Oahu, 4 cents per word; ship to ship, no charge.

COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—continued.

| Name of vessel. Call signal. Lake Hector KUMZ Lake Flag KUMX Lake Galucus KUMV Las Vegas KUMW Las Vegas KUMW Margaret KUQS Martha Washington KUQF Montfaucon KUQF Nanquist KUQV Nangus KUPS Neshobee KUNK Oronoke KUNK Padnsay KUQG Panoil KUQC Patrick Henry KUPM Penthis KUPC Pulsaki KUQL Rochelie KUNX Sepulga KURK Sepulga KURK Sepulga KURK Sepulga KURK Sulfaci KUMT Unicol KUQP Union Liberty KUNG Waterbury KUPT West Cahokia KUPJ West Cahokia KUPJ | North | | | ſ | 1 | ĺ |
|--|---------------------------------------|-------------------------------|---------------|-------------------|------------------------------------|-----------------------------|
| Lake Flag KUMX Lake Galucus KUMV Lake Galucus KUMV Las Vegas KUQM Margaret KUQS Martha Washington KUQS Manquitt KUQV Naugus KUPS Neshobee KUNK Oronoke KUNK Oron | South American can service. | Trans- oceanic service. | Serv- ice. | Hours. | Owner of vessel, | Station con- trolled by— |
| Lake Flag. KUMX Lake Galucus. KUMV Lake Galucus. KUMV Las Vegas. KUQM Margaret. KUQS Martha Washington. KUQS Manquitt. KUQV Nanquitt. KUQV Nanquitt. KUPS Neshobee. KUN K Oromoke. KUN K | Cents. | Cenus. | | | | |
| Lake Galicus. KUMV Las Vegas. KUQM Margaret. Martha Washington. KUQF Montfaucon. KUQZ Nanquitt. KUQZ Nanguitt. KUQZ Nanguis. KUPS Neshoboe. KUNK Pornoke. KUNK Padnsay. KUQG Panoil. KUQG Panoil. KUQC Patrick Henry. KUPM Penthis. KUPC Pulaski. KUPC Pulaski. KUPK Rochelie. KUNK Rochelie. KUNG Rochelie. KUPT | 4 | 4 | PG | X | U.S. Shipping Board. | |
| Lake Galucus. Lake Galucus. KUMV Las Vegas. KUQM Margaret. Martha Washington. KUQF Montfaucon. KUQZ Vanquitt. KUQZ Vanguitt. KUPS Vangus. KUPS Vangus. KUPS Valnaky. KUNL Cadnsay. KUQG Canoll. KUQC Caloski. KUPC Caloski. KUPC Caloski. KUPC Caloski. KUPC Caloski. KUNX Caloski. KUNG Vaterbury. KUNG Vaterbury. KUNG Vaterbury. KUPT Vest Calookia. KUPJ | 1 4 | أية | PĞ | X | do | i |
| Margaret KUQS Martha Washington KUQF Montfaucon KUQZ Sanquitt KUQV Sugus KUPS Neshobee KUNK Pronoke KUNK Pronoke KUNK Panoil. KUQC Patrick Henry KUPM Penthis KUPC Patrick Henry KUPM Penthis KUPC Patrick Henry KUPM Pochelie KUNK ROPE Thicoi. KUQL Nochelie KUNK Spulga KURK Olitaire KUMT Inicoi. KUQF Vaterbury KUNG Vaterbury KUNG Vaterbury KUNG Vaterbury KUPG Vaterbury KUPG Vest Cabokia KUPJ | l ā | l āl | PG | Î | do | |
| Margaret KUQS Martha Washington KUQF Montfaucon KUQZ Vanquitt KUQV Vaugus KUPS Neshoboe KUN K Pronoke KUN K Pochelie KUPK Rochelie KUN K ROCH Palical KUN K ROCH Palical KUN K ROCH Palical KUN K ROCH Palical KUN K ROCH ROCH ROCH ROCH ROCH ROCH ROCH ROCH | 1 4 | 4 | PĜ | X | do | R. C. of A. |
| Montsucon KUQZ Nanquitt KUQV Nanguit KUQV Nangus KUPS Neshoboe KUNK Padnsay KUQG Panoli KUQC Patrick Henry KUQG Patrick Henry KUPM Penthis KUPC Pulaski KUPC Pulaski KUNK Rochellie KUNX Sepulga KURK Solitaire KUMT Junicoi KUQP Junion Liberty KUNG Naterbury KUNG Naterbury KUPG Naterbury KUPG Nest Cabokia KUPJ | | | PĞ | | Red Salmon Canning | 24.0.0.1. |
| Nanquitt KUQV Jaugus KUP8 Jaugus KUP8 Jaugus KUP8 Jaugus KUP8 Jaugus KUP8 Jaugus KUNK Jaugus KUNK Jaugus KUNK Jaugus KUNK Jaugus KUPC Jaugus KUPK Jaugus KUNK Jaug | 4 | 4 | PG | N | Co. U. S. Shipping Board. | 8. O. R. S. |
| Naugus. Neshobee. KUN K Promoke. KUN K Promoke. KUN K Padnsay. KUQG Patrick Henry. Penthis. KUPM Penthis. KUPC Palsaki. KUQL Rochellie. KUN K Sepulga. KUR K Olitaire. KUMT Palcoi. KUMT KUMT KUMT KUMT KUMT KUMT KUMT KUM | 1 | | PG | X | Independent S. S. Co | |
| Neshoboe. KUNK Promoke. KUNK Promoke. KUNL Padnsay. KUQG Panoll. KUQC Patrick Henry. KUPK Patrick Henry. KUPK Patrick Henry. KUPK Patrick Henry. KUPK Patrick Henry. KUNK Populga. KURK Olitaire. KUMP Palool. KUQP Palool. KUNG Vaterbury. KUNG Vaterbury. KUNG Vaterbury. KUPT Vest Cabokia. KUPJ | 4 | 4 | PG | X | U. S. Shipping Board. | |
| pronoke KUNL Padnsay KUQG Panoil. KUQG Patrick Henry KUPM enthis KUPC Patrick Henry KUPM chelie KUPC pobelie KUNX spulga KURK olitaire KUMT Inicol. KUQF mion Liberty KUNG Vaterbury KUNG Vaterbury KUPG Vest Cabokia KUPJ | 4 | 4 | PG | 1 | do | R. C. of A. |
| Padnsay KUQG Panoil. KUQC Panoil. KUPM Patrick Henry. KUPM Patrick Henry. KUPM Patrick KUPC Palsaki. KUQL Rochellie. KUNX Patrick KUNX Palcoi. KURK Palcoi. KUQP Palcoi. KUQP Palcoi. KUQP Palcoi. KUPT Vest Cahokia. KUPJ | ı ă | 4 1 | PĞ | X | do | |
| Padnsay KUQG Panoil. KUQC Panoil. KUPM Patrick Henry. KUPM Patrick Henry. KUPM Patrick KUPC Palsaki. KUQL Rochellie. KUNX Patrick KUNX Palcoi. KURK Palcoi. KUQP Palcoi. KUQP Palcoi. KUQP Palcoi. KUPT Vest Cahokia. KUPJ | l ii | 4 | ΡĜ | x | do | |
| Panoil. KUÇC Patrick Henry. KUPM Penthis. KUPC Pulaski. KUQL tochellie. KUNX spulga. KURK olitaire. KUMT Juicoi. KUQF Inion Liberty. KUNG Vaterbury. KUPT Vest Cabokia. KUPJ | À | _ Ā. | PĞ | | do | 8. O. R. S. |
| enths. KUPC vlaski. KUQL vlaski. KUQL tochellie. KUNX spulga. KURK olitaire. KUMT Inicai. KUQP Inicai. KUQP vsterbury. KUPT Vest Cabokia. KUPJ | 4 | 4 | PG | | Pan-American Petroleum & Transport | ol A. |
| enths. KUPC Pulaski. KUQL Pulaski. KUNX Spulga. KUNX Spulga. KURK Spulga. KURK Jaicol. KUQP Jaicol Liberty. KUNG Vaterbury. KUPT Vest Cabokia. KUPJ | [4 | 4, | PG | x | U. S. Shipping Board | |
| Palaski, KUQL Stochollie, KUNX spulga, KURK olitaire, KUMT Talcai, KUQP Jaion Liberty, KUPT Vest Cabokia, KUPJ | , , | * 1 | PG | | Sugar Products Co | U. |
| tochellie KUNX spulga. KURK olitaire KUMT Inicoi. KUQT Inicoi KUQT Vaterbury KUNG Vaterbury KUPT Vest Cahokia KUPJ | · · · · · · · · · · · · · · · · · · · | 4 | PĞ | • • • • • • • • | U. S. Shipping Board. | |
| spulga | • | 7 | PG | | o. b. mapping boatd. | |
| olitaire KUMT Inicol KUQP Inicol Liberty KUNG Vaterbury KUPT Vest Cahokia KUPI | 4 | 4 | PĞ | ''N | U. S. Shipping Board. | |
| Inicai | ; * ; | * | PG | x | Texas S. S. Co | |
| Vaterbury KUNG Vaterbury KUPT Vest Cahokja KUPJ | 4 | 4 | PG. | ^ | U. S. Shipping Board. | |
| Vaterbury KUPT Vest Cahokia KUPJ | 4 | 4 | ΡĞ | | do | |
| Vest Cahokia KUPJ | 7 1 | 3 | PG | X | do | |
| Pant Trans |] 7 | 3 | PG | _ ^ ; | do | I. W. T. Co |
| | 1 | 7.1 | PO | • • • • • • • • • | do | S. O. R. S. |
| Vest Nivaria KUQJ | | 7 | PG | | do | Do. |
| heeling MoldKUMN | 4 | 7.1 | PG | X | do | 10. |
| inona | | * ! | PG A | X | 40 | D C at A |
| V. K. Bixby KURJ | 4 | • • | rG | • | American S. S. Co | R. C. of A. Do. |

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

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

| | (passent) require, co-tond statute) | | | | | |
|-----------------|-------------------------------------|-----------------|--------------------|--|--|--|
| Call signal. | Name. | Call signal. | Name. | | | |
| KHK | Wahiawa, Hawaii | KUPB | Italiab | | | |
| KPE | Scattle, Washc | | Penthisb | | | |
| | | KUPD | Eastern Planetb | | | |
| KUMT | Solitaireb | KUPF | Hahatonka b | | | |
| KUMV | Laire Galucus b | KUPG | Greenland | | | |
| KUM | Lake Flagb | KUPJ | West Cahokiab | | | |
| KUMA | Lake Hectorb | KUPK | Dardenb | | | |
| | 7 | KUPL | Conness Peakb | | | |
| KUNB | Lake Harminiab | KUPM | Patrick Henryb | | | |
| KUNC | Lake Gunnib | KUPN | Capillob | | | |
| KUND | Eastern Blade b | KUPP | Cuboreb | | | |
| KUNF | Eastern Oceanb | KUPO | Orden, Utahc | | | |
| KUNG | Union Libertyb | KUTR | | | | |
| KUNJ | Evergreen Cityb | KUPS | Naugusb | | | |
| KUNK | Neshobeeb | | Waterburyb | | | |
| KUNL | Oronoireb | | Kehukub | | | |
| KUNM | Wheeling Moldb | | Hawardenb | | | |
| KUNN | Jennie R. Morseb | KUPZ | Fishers Island b | | | |
| KUNP | Freeport Sulphur No. 6b | | | | | |
| KUNQ | Eastern Crownb | KUQB | Fueloilb | | | |
| KUNR | Eastern Victorb | KUQC | Panoilb | | | |
| KUNS | City of Vernonb | KUQD | Crudoil b | | | |
| KUNT | George B. MacKenzieb | KUQF | Martha Washingtonb | | | |
| KUNV | Winons.,b | KUQG | Padnsay,b | | | |
| KUNX | Rochellieb | KUQJ | West Nivariab | | | |
| KUNZ | Chickson City h | RUOK | West Keats | | | |

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS—continued.

| Call signal. | № 1 | Call signal. | Name. |
|--|---|-------------------|--|
| KUQL KUQM KUQP KUQP KUQQ KUQS KUQS KUQY KUQY KUQY | Pulaski b Las Vegas b J. F. Penrose b Unicol b Conehatta b Everett b Margaret b Eastern Dawn b Nanquitt b Juvigny b | KURF | Arcturus b Chappaqua b Artigas b W. K. Bixby b Sepuiga b |
| KURB KURC | Montfaucen b Hinckley b Cathwood b | WBF WHE WHI | Boston, Mass |

GOVERNMENT SHIP STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

ons to the list of Radio Stations of the United States, edition of June 15, 1919.]

Name of ship.

Call signal.

Name of ship.

Call signal.

Peary.

NUQD

SPECIAL LAND STATIONS, ALPHABETICALLY, BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919, only.]

| Station. | Call signal. | Station controlled by- |
|----------------------|-----------------|--|
| Ann Arbor, Mich | 8XA | University of Michigan. |
| Auburn, N. Y | | Colby's Telegraph School. |
| Baltimore, Md. | | Johns Hopkins University. |
| Battle Creek, Mich | | Bert E. Clouch. |
| Blackwell, Okla. | | Harold Schonwald. |
| Boston, Mass | | Eastern Radio Institute. |
| Bozeman, Mont | | Montana State College. |
| Boseman, Mont | | R. Earl Dawes. |
| Cambridge, Mass. | iXJ | Harvard University. |
| Camp Dix, N. J. | 2YA | Knights of Columbus. |
| Chicago, Ifi | 9ZN | Ralph H. G. Mathews. |
| Chicago, Iîl | 2XF | Western Electric Co. |
| Clifton, N. J. | 2ZM | Lester Spangenburg. |
| College Station, Tex | 5XB | Agricultural & Mechanical College of Texas. |
| Denver, Colo | 9ZD | Edward C. Stockman. |
| Dover, Ohio | 8ZX | Harry S. Weber. |
| Eagle Pass, Tex | 52N | Ed. Nettleton. |
| Elberon, N. J | ZXJ | Western Electric Co. |
| Elk, Wyo | 7ZE | Harold Prescott Sheerd. |
| Green Harbor, Mass | 1XD | Western Electric Co. |
| Independence, Mo | 9ZH | Reorganized Church of Christ of Latter Day Saints. |
| Ithaca, N. Y | 8XU | Cornell University. |
| Kingston, R. I. | | Rhode Island State College. |
| Lacey, Wash. | | St. Martin's College. |
| Little Rock, Ark. | 5YH | United States Signal Corps. |
| Lynn, Mass | 1XL | General Electric Co. |
| Madison, Wis | 9XM | University of Wisconsin. |
| Manhattan, Kans | 9YV | Kansas State Agricultural College. |
| Manitowoc, Wis | 9ZL | W. C. Bridges and H. J. Burhop. |
| New Haven, Conn | 1ZC | A. C. Gilbert Co. |
| New Rochelle, N. Y | 2ZK | George C. Cammon. |
| New York, N. Y | | Marconi Institute. |
| New York, N. Y. | | Western Electric Co. |
| New York, N. Y | 2XG | De Forest Radio Telephone & Telegraph Co. |

SPECIAL LAND STATIONS, ALPHABETICALLY, BY NAMES OF STATIONS—continued.

| Station. | Call signal. | Station controlled by— |
|---|--|--|
| New York, N. Y. Norfolk, Va. Norfolk, Va. Nutley, N. J. Pittsburgh, Pa. Pittsburgh, Pa. Rookville Center, N. Y. Savannah, Ga. Scheneotady, N. Y. Seattle, Wash. Shrereport, La. Springfield, Mi. Springfield, Mass. State College, N. Mex. State College, Pa. | 3ZC 2ZH 2ZH 8XK 8YZ 2ZL 4XB 2XA 7XZ 5Z8 9Z8 1ZK 5XD 8XE | Walter G. Hudson. City of Norfolk, Department of Public Safety. Arthur A. Hebert. Frank Conrad. Peabody High School. J. Owen Smith. Board of Public Education. E. M. Kinney. University of Washington. William E. Antony. Illinois Watch Co. Glenn C. Sabin. New Mexico College. Pannsylvanis State College. |
| Valparaiso, Ind Vancouver, Wash Washington, D. C. Wayne, Nebr Wheeling, W. Va. Wilkes-Barre, Pa. | 7ZB 3XH 9YT 8ZW | Dodge's Institute of Telegraphy. John D. Harts. Lester S. Barr. State Normal School. John C. Stroebel, fr. John H. Stenger, jr. |

SPECIAL LAND STATIONS GROUPED BY DISTRICTS.

| Call signal. | District and station. | Call signal. | District and station. |
|---|---|--|---|
| 1XD 1XJL 1YA 1YC 1ZC 1ZK 2XB 2XF 2XF 2XG 2XJ 2XY 2ZX 2ZX 2ZX 3XC 3XC 4XB 5XB 5XB 5XB 5XB 5XB 5XB 5XB 5XB | First district: Green Harbor, Mass. Cambridge, Mass. Lynn, Mass. Kingsten, R. I. Boston, Mass. New Haven, Conn. Bgringfield, Mass. Second district: Behemeetsdy, N. Y. New York, N. Y. Cliffwood, N. J. New York, N. Y. Eibaron, N. J. New York, N. Y. Camp Dix, N. J. New York, N. J. New Hochelle, N. Y. Clifton, N. J. Boekville Center, N. Y. Clifton, N. J. Mass. Fourth district: College Station, Tex. Battle College, N. Mex. Little Book, Ark. Eagle Pass, Tex. Shrevsport, La. Blackwell, Okla. | 7XB 7XZ 7YS 7ZB 7ZD 7ZE 8XA 8XK 8XX 8XZ 8ZZ 8ZZ 8ZZ 8ZZ 8ZZ 9XD 9YY 9ZD 9ZH 9ZH 9ZH 9ZH 9ZH 9ZH | Seventh district: Bozemsan, Mont. Beattle, Wash. Lacey, Wash. Vancouver, Wash. Boseman, Mont. Elk, Wyo. Eighth district: Ann Arbor, Mich. State College, Pa. Pitisburgh, Pa. Ithaca, N. Y. Auburn, N. Y. Pittaburgh, Pa. Battle Creak, Mich. Wilkas Barre, Pa. Dover, Ohlo. Wheeling, W. Va. Ninth district: Valparaiso, Ind. Madison, Wis. Wayna, Nebr. Manhattan, Kans. Denver, Colo. Independence, Mo. Manflower, Wis. Chicago, III. Bpringfield, III. |
| | | 17 | 1 |

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 letters assigned. Call

System —Radio system used and sparks per second.

—Normal range in nautical miles. Range

—Wave lengths assigned: Normal wave lengths in italics. Ŵ. Ľ.

=Nature of service maintained: Service PG=General public.

PR=Limited public.

P ⇒Private.

O =Government business exclusively.

Hours =Hours of operation:

N =Continuous service. X = No regular hours.

m = a. m. (12m=midday). s = p. m. (12s=midnight).

Ship or coast charges, in cents: c=cents. (The rates in the international list are given in francs and centimes. For approximate pur-Rates poses, 1 franc equals 20 cents and 5 centimes equal 1 cent.)

I. W. T. Co. = Independent Wireless Telegraph Co.

R. C. of A. = Radio Corporation of America. S. O. R. S. = Ship Owners Radio Service.

ALTERATIONS AND CORRECTIONS.

ÞБ COMMERCIAL LAND STATIONS, ALPHABETICALLY BY NAMES STATIONS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations, published by the Berne buress.]

NEW LONDON, CONN.—Rates, transoceanic ships, 6 cents per word; no minim Newfort, R. I.—Hours X (licensed to operate 23 hours daily); rates, coastille and transoceanic ships 6 cents per word, no minimum; ships plying between ports within 200 miles of New York 3 cents per word, no minimum. Saltchuck, Alaska.—Station operated and controlled by Saltchuck Mining Co.

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 15, 1919, and to the International List of Radiotelegraph Stations, published by the Berne bureau.]

Ancon.—Panama Railroad Co. owner of vessel.

APPELES.—Name changed to Kermit.

ARAGON.—Rates, North and South American, and transoceanic service 4 cents per word; station operated and controlled by Cutting and Washington Radio Corpora-

Chas. R. Van Hise.—Name changed to A. E. R. Schneider.
CITY OF SHERMAN.—Pensacola Shipbuilding Co. owner of vessel.
Columbia.—Station operated and controlled by owner of vessel.
Cotopaxi.—Clinchfield Navigation Co. owner of vessel; station operated and controlled by R. C. of A.

EASTERN STAR.—Standard S. S. Co. owner of vessel.

Francis L. Skinner.—Name changed to Oran. GLORIETA.—Munisla S. S. Corporation owner of vessel. GOVERNOR FORBES.—Name changed to Caldas.

HUACHUCA.—Name changed to Orinoco.

JOHN F. PENROSE.—Rates, North and South American, and transoceanic service 4 cents per word; station operated and controlled by Cutting and Washington Radio Corporation.

KARINA.—Service, P; hours, X; France & Canada S. S. Co. owner of vessel; station

operated and controlled by owner of vessel.

Keresan.—Kerr Navigation Corporation owner of vessel. Kerlew.—Kerr Navigation Corporation owner of vessel.

K. I. Luckenbach.—Luckenbach S. S. Corporation owner of vessel.

Paraiso.—Station operated and controlled by owner of vessel. SAN ANTONIO.—Station operated and controlled by owner of vessel. San Ramon.—Rates, 8 cents per word for all services; station operated and controlled by Wireless Service Co.

SANTA TERESA.—Grace S. S. Co. owner of vessel.

STAR 1.-Station operated and controlled by owner of vessel.

SUBANNA II.—Correct name Subana II; station operated and controlled by owner of vessel.

TAMESI.—Sinclair Navigation Co. owner of vessel.

West Calera.—Western Pipe & Steel Co. owner of vessel. Yuma.—Tropical Fruit Co. owner of vessel.

THE STATIONS OF THE FOLLOWING-NAMED VESSELS ARE OPERATED AND CONTROLLED BY THE INDEPENDENT WIRELESS TELEGRAPH CO.

Arizpa.
Clemence C. Morse.
Colthraps.
Commack.
Dellwood.

El Occidente. Lake Fitch. Liberty Bell. Monroe. New England. Orient.
Plow City.
Quinnesseco.
Tashmoo.
West Hixton.

THE STATIONS OF THE FOLLOWING-NAMED VESSELS ARE OPERATED AND CONTROLLED BY THE RADIO CORPORATION OF AMERICA (FORMERLY MARCONI CO.).

Atlantic Sun. Centaurus. Circinus. Conejos.

Des Moines.

Corone. Eagle. Lake Butler. Rock Island. Sabine Sun. Sacramento. Sinsinawa.

THE STATIONS OF THE FOLLOWING-NAMED VESSELS ARE OPERATED AND CONTROLLED BY THE SHIP OWNERS RADIO SERVICE (INC.).

Ashland County. Cethana. Collingsworth. Comerant. Eastern Belle. Coolcha. Lake Fighting.
Lake Fillion.
Lake Galewood.
Moravia Bridge.
Oneonta.

Utoka. Wallula. West Campgaw. Winston-Salem. Worcester.

Strike out all particulars of the following-named vessels:

Braddock.
Brookhaven.
Copan.
Cubadist.
Euharlee.

Fairfield.

Lake Damita.
Lake Duane.
Lake Felicity.
Lake Forest.
Lake Licking.

Gut Heil.

Lake Worth. Quoque. Randolph S. Warner.

Ake Forest. Santino. Ake Licking. Singleton Palmer.

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

KBEA, read Lake Weir; KEMG, read Susana II; KIMX, read Orinoco; KOQV, read Caldas; WFUI, read A. E. R. Schneider; WMV, read Kermit; WQK, read Oran; and WLO, read WSO. Strike out all particulars following the call signals: KBIE, KBII, KETG, KLII, KLOA, KNV, KPOE, KPV, KRY, KTAE, KUMP, KVUI, WOQ, WPUA, WRAO, WSAI, WSIU, and WZEO.

GOVERNMENT 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 June 15, 1919.]

Bull Island, S. C. (radio compass), strike out all particulars. Simsadus, London, strike out all particulars.

GOVERNMENT SHIP STATION, ALPHABETICALLY BY NAME OF VESSEL.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 15, 1919.]

DURHAM, strike out all particulars.

GOVERNMENT LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

Strike out all particulars following the call signals: NEDD, NGO, and NZY.

SPECIAL LAND STATION, BY NAME OF STATION.

LEXINGTON, KY.-9YB changed to 9YC.

MISCELLANEOUS.

APPLICATIONS FOR RADIO CALL LETTERS.

Applications for radio call letters for ships should be filed with the collectors of customs at the various ports at the time application is made for the official number and signal letters and not before such time. When the official number has already been assigned, the application should give the number, and, in case a vessel has had a former name, the name should be given. All particulars regarding the hours of service, class of service, rates, etc., should be reported without delay in order that the information can be published in the Radio Service Bulletin. When it is very inconvenient to apply to the collector of customs, application may be made to the radio inspector.

LAND-STATION LICENSES.

All commercial land stations, experimental and technical and training stations are required to obtain a license before operating, as required by section 1 of the act of August 13, 1912. The filing of the application or the assignment of radio call letters does not constitute authority for operating a station. Owners of stations who fail to comply with the above requirements may expect action to be taken in accordance with the above-cited act.

AMENDMENTS.

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

Page 58, paragraph 86, amended April 15, 1920, to read:

When applications and forms have been properly submitted, ship and amateur stations may be operated in accordance with the laws and regulations governing the class of station for which application for license has been made, until such time as the application can be acted upon unless the applicant is otherwise instructed and provided temporary official call letters are assigned.

Page 63, paragraph 119, amended May 1, 1920, to read:

If the applicant qualifies, the radio inspector or examining officer will forward the papers to the Commissioner of Navigation, with his recommendation. If approved, the license will be properly indorsed by the Secretary of Commerce and delivered to the licensee through the recommending officer.

It will be noted that the following was eliminated from the above paragraph: "A blank commercial license, with."

RATE CHANGES.

Effective May 1, 1920, the International Radio Telegraph Co. is authorized to charge 6 cents per word, no minimum, for transoceanic service, instead of 12 cents per word, minimum \$1.20, and to make no minimum charge for other classes of service. These rates to apply to their stations at New London, Conn., and Newport. R. I.

NORTH SEA MINE RADIO SERVICE.

Mine warnings to Mariners No. 338, British Admiralty, L enden published the following:

Alterations in the marking of the mine-free channels in the North Sea, and information regarding mines, are transmitted by the German naval radio station at Borkum every four hours, at 8 a. m., noon, 4 p. m., etc. (central European time), with a wave length of 600 meters. All merchant vessels are advised, in the interests of safety to keep continuous radio watch while proceeding within the limits of the mined areas.

TIME SIGNALS BY RADIO.

The Director of Naval Communications advises that time signals are being transmitted by the United States naval radio stations as follows:

| Station. | Call letters. | Wave lengths. | When sent. |
|-----------------------|------------------|--------------------|--|
| | , | Мецета. | |
| Annapolis, Md | NSS | 1 17,000 | Daily at 11.55 a. m. to noon and 9.55 to 10 p. m., standard time, seventy-fifth meridian. |
| Balbos, Panama | NBA | 17,000 | Daily at 4.55 to 5 a. m. and 12.55 to 1 p. m., standard time, seventy-fifth meridian. |
| Cavite, P. I | | { 15,000 1952 | Daily at 10.55 to 11 a. m. and 9.55 to 10 p. m., standard time, one hundred and twentieth meridian, east. |
| Colon, Panama | NAX | *1,500 | Daily at 4.55 to 5 a. m. and 12.56 to 1 p. m., standard time, seventy-fifth meridian. |
| Eureka, Calif | NPW | 2,000 | Daily at 11.55 a. m. to noon, standard time, one hundred and twentieth meridian, west. |
| Great Lakes, Ill | NAJ | 1,512 | Daily except Sundays and holidays at 10.55 to 11 a. m., standard time, ninetieth meridian. |
| Key West, Fla | NAR | 1,500 | Daily at 11.55 s. m. to noon, standard time, seventy- fifth meridian. |
| New Orleans, La | NAT | 1,000 | Daily at 11.55 a. m. to noon, standard time, seventy- fifth mendian. |
| North Head, Wash | NPE | 2,800 | Daily at 11.55a.m. to noon, standard time, one hundred and twentieth meridian, west. |
| Pearl Harbor, Hawaii | NPM | 111,200 | Daily at one hundred and eightieth meridian, mean noon. |
| Point Arguello, Calif | NPK | 1,512 | Daily except Sundays and holidays at 11.55 s. m. to noon, standard time, one hundred and twentieth meridian, west. |
| San Diego, Calif | NPL | 1 9,800 1 2,400 | Daily except Sundays and holidays at 11.55 a.m. to noon, standard time, one hundred and twentieth meridian, west. |
| San Francisco, Calif | NPH | 1 4,800 2,400 | Daily at 11.55 a. m. to noon, standard time, one hundred and twentieth meridian, west. |
| Washington, D. C | | 2,500 | Daily at 11.55 a. m. to noon, and 9.55 to 10 p. m., standard time, seventy-fifth meridian. |

1 Arc.

*Spark.

CHANGE OF TIME IN THE BRITISH ISLANDS.

From 2 a. m. (Greenwich mean time) on March 28, 1920, until further notice British summer time, which is one hour in advance of Greenwich mean time, will be kept in the British Islands.

The clock time of all visual time signals, with the exception of the time gun at Edinburgh Castle, which will be fired at noon (Greenwich mean time), corresponding to 1h. 00m. 00s., British summer time will be one hour later than the time shown in the Admiralty List of Time Signals under the column "Standard Time," the Greenwich mean time of the time signals remaining the same as shown in Admiralty publications.

In the Admiralty tide tables full information is given as to the

time used.

In all cases in which the time shown by the clock differs from that used in the tide tables the difference must be applied to the time of the tide as obtained from the tide tables.

NOTE.—Greenwich mean time should invariably be used, both in Great Britain and Ireland, in all tidal records kept for permanent

reference.

It should be noted that the change in time also temporarily affects certain Admiralty sailing directions and charts, etc., as well as the tables showing the duration of "official night" embodied in the public traffic regulations for various defended ports.

USE OF 800 METER WAVE LENGTH.

The wave length of 800 meters, for radio compass work exclusively, must not be used for general public service messages. This is prohibited by the act of August 13, 1912, and the International Radio-telegraphic Convention.

EXAMINATIONS.

On and after this date radio inspectors will be governed by regulation 133 in the reexamination of applicants for radio operators' licenses, which requires applicants who fail to pass to wait three months before applying for another examination.

ADDITIONAL COPIES

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