WASHINGTON, June 1, 1921—No. 50

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<td>Special land stations, by names</td>
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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: 0 = 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.
P.R = 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).
        p.m. = (12 p.m. = midnight).
Rates = Ship or coast charges in cents: c = cents. (The rates in the
        international list are given in francs and centimes.)

R. C. of A. = Radio Corporation of America.
S. O. R. S. = Ship Owners' Radio Service.
Co. = Company.
Corp. = Corporation.
& = And.
Do. = Ditto.
## RADIO SERVICE BULLETIN

### 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 Borne bureau.]

<table>
<thead>
<tr>
<th>Station</th>
<th>Call signal</th>
<th>Wave lengths</th>
<th>Service</th>
<th>Hours</th>
<th>Station controlled by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall River Mills, Calif.</td>
<td>WDJ</td>
<td>200, 250, 275, 300, 600</td>
<td>PR X</td>
<td>George H. Taylor</td>
<td></td>
</tr>
<tr>
<td>Newark, N. J.</td>
<td>WIZ</td>
<td>300, 600, 600, 1,800</td>
<td>PR X</td>
<td>Westinghouse Electric &amp; Mfg. Co.</td>
<td></td>
</tr>
<tr>
<td>San Francisco, Calif.</td>
<td>KFS</td>
<td>300, 600, 1,800</td>
<td>PG N</td>
<td>Federal Telegraph Co.</td>
<td></td>
</tr>
<tr>
<td>Susanville, Calif.</td>
<td>WDK</td>
<td>200, 250, 275, 300, 600</td>
<td>PR X</td>
<td>R. D. Mayes</td>
<td></td>
</tr>
</tbody>
</table>

1. Loc. (approximately) 0.740 10' 00", N. 40° 44' 00"; range, 200; system, composite; rates, none.
2. Loc. 0.125 10' 00", N. 37° 49' 36"; range, 150-2400; system, Navy spark, 1000 and Federal arc; rates, ship service 6 c per word.

### 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 Borne bureau.]

<table>
<thead>
<tr>
<th>Name of vessel</th>
<th>Call signal</th>
<th>North and South American Service</th>
<th>Trans-oceanic Service</th>
<th>Service</th>
<th>Hours</th>
<th>Owner of vessel</th>
<th>Station controlled by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anniston City</td>
<td>KDSG</td>
<td>Cents</td>
<td>Cents</td>
<td>PG X</td>
<td>U. S. Steel Products Co.</td>
<td>J. Bullock</td>
<td></td>
</tr>
<tr>
<td>Astra</td>
<td>KDSG</td>
<td></td>
<td></td>
<td>PG N</td>
<td>Standard Oil Co.</td>
<td>H. T. West</td>
<td></td>
</tr>
<tr>
<td>E. T. Bedford</td>
<td>KDSB</td>
<td></td>
<td></td>
<td>PG N</td>
<td>U. S. Shipping Board</td>
<td>W. E. Haskell</td>
<td></td>
</tr>
<tr>
<td>Hambro</td>
<td>KDSH</td>
<td>4</td>
<td>4</td>
<td>PG X</td>
<td>Manhattan Navy Co.</td>
<td>W. S. Shipping Board</td>
<td></td>
</tr>
<tr>
<td>Keystone State</td>
<td>KDSL</td>
<td>4</td>
<td>4</td>
<td>PG X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manukal</td>
<td>KDSF</td>
<td></td>
<td></td>
<td>PG X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manne 1</td>
<td>KEDJ</td>
<td>4</td>
<td>4</td>
<td>PG X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nashoba</td>
<td>KDSM</td>
<td>4</td>
<td>4</td>
<td>PG X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Swiftlight</td>
<td>KDSY</td>
<td></td>
<td></td>
<td>PG X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Swift Wind</td>
<td>KDSI</td>
<td>4</td>
<td>4</td>
<td>PG X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tulsagas</td>
<td>KDRZ</td>
<td>4</td>
<td>4</td>
<td>PG X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thomas Crowley</td>
<td>KDSD</td>
<td></td>
<td></td>
<td>PG X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unanthed</td>
<td>KDSN</td>
<td>4</td>
<td>4</td>
<td>PG X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicksburg</td>
<td>KDSO</td>
<td></td>
<td></td>
<td>PG X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yale</td>
<td>WBY</td>
<td>8</td>
<td>4</td>
<td>PG N</td>
<td>Harvard-Yale Syndicate</td>
<td>Federal Telegraph Co.</td>
<td></td>
</tr>
</tbody>
</table>

1. Range, 300; system, Navy-Liberty, 1000; w. l., 300, 450, 600.
2. Range, 300; system, Navy, 1000; w. l., 300, 600.

### Commercial land and ship stations, alphabetically by call signals.

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

<table>
<thead>
<tr>
<th>Call signal</th>
<th>Name</th>
<th>Call signal</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>KDRZ</td>
<td>Tulsagas</td>
<td>KDSK</td>
<td>Gloria West</td>
</tr>
<tr>
<td>KDSA</td>
<td>Swiftlight</td>
<td>KDSL</td>
<td>Keystone State</td>
</tr>
<tr>
<td>KDSB</td>
<td>E. T. Bedford</td>
<td>KDSM</td>
<td>Nashoba</td>
</tr>
<tr>
<td>KDSF</td>
<td>Vicksburg</td>
<td>KEDJ</td>
<td>Manne</td>
</tr>
<tr>
<td>KDSG</td>
<td>Thomas Crowley</td>
<td>KFS</td>
<td>San Francisco, Calif.</td>
</tr>
<tr>
<td>KDSH</td>
<td>Astra</td>
<td>WDJ</td>
<td>Fall River Mills, Calif.</td>
</tr>
<tr>
<td>KDSI</td>
<td>Swift Wind</td>
<td>WDK</td>
<td>Susanville, Calif.</td>
</tr>
<tr>
<td>KDSN</td>
<td>Anniston City</td>
<td>KWD</td>
<td>West Lewark</td>
</tr>
<tr>
<td></td>
<td>Hambro</td>
<td>WJS</td>
<td>Newark, N. J.</td>
</tr>
<tr>
<td></td>
<td>Unanthed</td>
<td>WBY</td>
<td>Yale</td>
</tr>
</tbody>
</table>

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1. **Librarian of Congress**
2. **Recorded on June 21, 1921**
3. **Documents Division**
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.]

<table>
<thead>
<tr>
<th>Station</th>
<th>Call signal</th>
<th>Station controlled by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asheville, N. C.</td>
<td>1ZD</td>
<td>Piedmont Electric Co.</td>
</tr>
<tr>
<td>Bedford, Iowa.</td>
<td>2XAJ</td>
<td>Bedford Light, Heat &amp; Power Co.</td>
</tr>
<tr>
<td>Buena Vista, Ga.</td>
<td>4XE</td>
<td>William B. Short.</td>
</tr>
<tr>
<td>Camden, N. J.</td>
<td>4XD</td>
<td>Federal Institute of Radio Telegraphy.</td>
</tr>
<tr>
<td>Charlotte, N. C.</td>
<td>9XO</td>
<td>F. M. Laxton.</td>
</tr>
<tr>
<td>Chicago, Ill.</td>
<td>8XA</td>
<td>Austin A. Howard.</td>
</tr>
<tr>
<td>Evansville, Ind.</td>
<td>8XI</td>
<td>Ideal Apparatus Co.</td>
</tr>
<tr>
<td>Golden, Colo.</td>
<td>8XZ</td>
<td>Colorado School of Mines.</td>
</tr>
<tr>
<td>Forest Hills, Pa.</td>
<td>6YAH</td>
<td>Harry M. Ryder.</td>
</tr>
<tr>
<td>Gunnison, Colo.</td>
<td>6YAI</td>
<td>Colorado State Normal School.</td>
</tr>
<tr>
<td>Lexington, Ky.</td>
<td>6ZAC</td>
<td>Transylvania University.</td>
</tr>
<tr>
<td>Lihue, Hawaii.</td>
<td>6YA</td>
<td>Clifford J. Dow.</td>
</tr>
<tr>
<td>Los Angeles, Calif.</td>
<td>1ZE</td>
<td>Young Men’s Christian Association.</td>
</tr>
<tr>
<td>Marion, Mass.</td>
<td>1ZL</td>
<td>Irving Vermilya.</td>
</tr>
<tr>
<td>Memphis, Tenn.</td>
<td>2XNA</td>
<td>William B. Sleg.</td>
</tr>
<tr>
<td>New York N. Y.</td>
<td>2XNB</td>
<td>City College Radio Club.</td>
</tr>
<tr>
<td>Do.</td>
<td>1XAA</td>
<td>Townsend Harris Hall Radio Club.</td>
</tr>
<tr>
<td>Noroton Heights, Conn.</td>
<td>1XAJ</td>
<td>Percival E. Fansler.</td>
</tr>
<tr>
<td>Northfield, Minn.</td>
<td>3XS</td>
<td>St. Olaf College.</td>
</tr>
<tr>
<td>Portland, Oreg.</td>
<td>7FK</td>
<td>Benson Polytechnic School.</td>
</tr>
<tr>
<td>Do.</td>
<td>7ZB</td>
<td>William A. Lortiegh, Jr.</td>
</tr>
<tr>
<td>Princeton, N. J.</td>
<td>3XU</td>
<td>Walter V. Roberts.</td>
</tr>
<tr>
<td>Richmond, Ind.</td>
<td>9ZAE</td>
<td>Palladium Printing Co.</td>
</tr>
<tr>
<td>San Francisco, Calif.</td>
<td>8XG</td>
<td>Leo J. Meyberg Co.</td>
</tr>
<tr>
<td>Do.</td>
<td>9ZAB</td>
<td>S. Peterson and Hal Shaw.</td>
</tr>
</tbody>
</table>

### Special land stations grouped by districts.

<table>
<thead>
<tr>
<th>Call signal</th>
<th>District and station.</th>
<th>Call signal</th>
<th>District and station.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1XAA</td>
<td>First district:</td>
<td>6ZAB</td>
<td>Sixth district—Continued.</td>
</tr>
<tr>
<td>1ZE</td>
<td>Noroton Heights, Conn.</td>
<td>6ZAC</td>
<td>San Francisco, Calif.</td>
</tr>
<tr>
<td>2XNA</td>
<td>Second district:</td>
<td>7XF</td>
<td>Seventh district:</td>
</tr>
<tr>
<td>2XNB</td>
<td>New York, N. Y.</td>
<td>7YK</td>
<td>Portland, Oreg.</td>
</tr>
<tr>
<td></td>
<td>New York, N. Y.</td>
<td>7ZB</td>
<td>Portland, Oreg.</td>
</tr>
<tr>
<td>3XS</td>
<td>Third district:</td>
<td>8XZ</td>
<td>Eighth district:</td>
</tr>
<tr>
<td>3YQ</td>
<td>Princeton, N. J.</td>
<td></td>
<td>Ninth district:</td>
</tr>
<tr>
<td></td>
<td>Camden, N. J.</td>
<td></td>
<td>Chicago, Ill.</td>
</tr>
<tr>
<td>4XE</td>
<td>Fourth district:</td>
<td>9XG</td>
<td>Xavansville, Ind.</td>
</tr>
<tr>
<td>4ZD</td>
<td>Charlotte, N. C.</td>
<td>9XAH</td>
<td>Golden, Colo.</td>
</tr>
<tr>
<td>4XL</td>
<td>Fifth district, Memphis, Tenn.</td>
<td></td>
<td>Bedford, Iowa.</td>
</tr>
<tr>
<td>6XG</td>
<td>Sixth district:</td>
<td>9YA</td>
<td>Gunnison, Colo.</td>
</tr>
<tr>
<td>6YA</td>
<td>San Francisco, Calif.</td>
<td>9YAJ</td>
<td>Lexington, Ky.</td>
</tr>
<tr>
<td></td>
<td>Los Angeles, Calif.</td>
<td>9ZAE</td>
<td>Richmond, Ind.</td>
</tr>
</tbody>
</table>

### 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 Berné bureau.]

- **BOSTON, Mass.—Range, 500; w. 1., 300, 450, 600, 1800.**
- **BROOKLYN, N. Y.—Loc. 0. 74° 00' 15'' N. 40° 39' 23''.**
- **CAPE MAY, N. J.—Loc. 0. 74° 55' 50'' N. 38° 55' 50''.**
- **SHIATHAM, Mass.—Loc. 70° 46' 30'', N. 41° 42' 45'' w. 1., 300, 450, 600, 1800.**
- **DALLAS, Tex.—W. 1., 300, 500, 600.**
- **KAUNAKAKAI, HAWAII—System, composite; w. 1., 300, 550, 600.**
- **KAWAIHAE, HAWAII—Range, 300; w. 1., 300, 550, 600.**
RADIO SERVICE BULLETIN.

LAHAINA, HAWAII.—Range, 300; w. l., 300, 550, 600.
LATROUCHE, ALASKA.—Range, 200; system, Kilbourne & Clark, 1000.
LHIRE, HAWAII.—Range, 300; w. l., 300, 550, 600.
NEW LONDON, CONN.—Loc. 0. 72° 05' 44", N. 41° 19' 59''.
NEWPORT, R. I.—0. 71° 18' 55'', N. 41° 29' 10''.
NEW YORK, N. Y. (KDKF).—Hours, N.
PIRATE COVE, ALASKA.—Range, 500; system, Halcun, 720.
ROCKLAND, ME.—W. l., 300, 450, 600, 1800; rates, ship service 10 c per word.
Siasconset, Mass.—Loc. 0. 69° 58' 10'', N. 41° 16' 35''.

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.]

ABNER COBURN.—Range, 300; w. l., 300, 550, 600.
ACROPOLIS.—Range, 300; system, Marconi, 1000; w. l., 300, 450, 600; hours, N.; rates, North and South American and transoceanic services 8 c per word; station operated and controlled by R. C. of A.
ADMIRAL EVANS.—System, Marconi, 1000; w. l., 300, 450, 600.
AMERICAN STAR.—System, Navy-Marconi, 1000; w. l., 300, 450, 600; hours, X.
AMOLCO.—W. l., 300, 600; no rates.
ANNETTA.—Range, 150; system, Marconi, 1000; w. l., 300, 450, 600.
ANTIGONE.—Name changed to Potomac; range, 300; system, Telefunken, 1000; w. l., 300, 450, 600.
ARAGON.—Hawk S. S. Line owner of vessel.
BATON ROUGE.—Range, 300.
BAYTOWN.—Range, 300; system, Marconi, 1000; w. l., 300, 600.
BAYWAY.—Range, 300; w. l., 300, 600.
BENJ. F. PACKARD.—Range, 300.
BUCKEYE STATE.—Station operated and controlled by S. O. R. S.
CABRILLO.—System, Marconi, 1000; rates, 1 c per word between East San Pedro and Avalon, Calif.
CALICOROCK.—System, Navy-Marconi, 1000.
CALVIN AUSTIN.—Range, 150; system, Marconi, 1000; w. l., 300, 450, 600.
CAMDEN (KRC).—Hours, N. and X.
CECIL COUNTY.—Range, 300; system, Fessenden, 1000; w. l., 300, 450, 600.
CENTENNIAL STATE.—System, Independent arc; station operated and controlled by I. W. T. Co.
CERALVO.—System, Navy, 1000; w. l., 300, 450, 600.
CHICAGO BRIDGE.—Station operated and controlled by I. W. T. Co.
CIGARETTE.—Range, 150; system, W. S. A. Co., 1000; service, PG; hours, X; rates, North and South American and transoceanic services 4 c per word; Barron G. Collier owner of station; station operated and controlled by S. O. R. S.
CITY OF ELWOOD.—Station operated and controlled by R. C. of A.
CITY OF EVERETT.—Range, 150; system, Marconi, 1000.
CITY OF PARA.—Rates, North and South American service, 8 c per word; transoceanic, no rates.
COALINGA.—Rates, North and South American service, 8 c per word; transoceanic, no rates.
COLOMBIA.—Rates, North and South American service and transoceanic service 8 c per word.
COOORESVILLE.—System, Navy-Marconi, 1000.
CONSHOHOCKEN.—Name changed to Willhilo.
COFERAS.—System, Navy-Marconi, 1000.
CORCORAN.—Range, 200; system, Navy-Simon, 1000.
COTTONWOOD.—System, Navy, 1000.
COUShattA.—System, Navy-Marconi, 1000.
COWICHAN.—System, Navy-Marconi, 1000.
Cuba (KDRT).—Rates, North and South American and transoceanic services 8 c per word; station operated and controlled by R. C. of A.
Cuba (WQU).—Rates, North and South American service, 8 c per word; transoceanic, no rates.
DADE County.—Station operated and controlled by R. C. of A.
DEIco.—Station operated and controlled by Moore & McCormack.
DELISLE.—Range, 300; system, Federal arc; w. l., 300, 450, 600, 1800.
De Sota.—Range, 300.
Ecuador.—Rates, North and South American and transoceanic services 8 c per word.
Edward Pierce.—Range, 200; system, Wireless Specialty Apparatus Co., 1000; station operated and controlled by owner of vessel.
El ESTERO.—Range, 150; system, Marconi, 1000.
El Isleo.—Range, 150; system, Marconi, 1000.
El LAGO.—Range, 150; system, Marconi, 1000; w. l., 300, 600.
Endicott.—System, Navy; w. l., 300, 450, 600.
Fairfield City.—Range, 300; system, Marconi, 1000; w. l., 300, 450, 600; hours, X; rates, North and South American and transoceanic services 8 c per word; station operated and controlled by R. C. of A.
Felix Taussig.—Range, 200; system, Wireless Specialty Apparatus Co., 1000; station operated and controlled by owner of vessel.
Forest King.—Forest King Co. owner of vessel.
F. Q. Barstow.—Range, 150.
Frank H. Buck.—Rates, North and South American services, 8 c per word; transoceanic, no rates.
Frederic R. Kellogg.—W. l., 300, 450, 600.
George C. Greer.—Range, 150; system, Fessenden, 1000; w. l., 300, 450, 600; Magnolia Petroleum Co. owner of vessel; station operated and controlled by owner of vessel.
Georgia (WFA).—Crosby Transportation Co. owner of vessel.
Goodspeed.—System, Navy-Marconi, 1000.
Governor DINGLEY.—Range, 150; system, Marconi, 1000; w. l., 300, 450, 600.
Greecian.—Rates, transoceanic services 8 c per word.
Gulf of Mexico.—Range, 150.
Harold Walker.—Range, 300.
Herbert G. Wylie.—Range, 300; hours, X.
Herrera.—System, Marconi, 1000; service, PG; rates, 1 c per word between East San Pedro and Avalon, Calif.
Hog Island.—Range, 300; system, Navy Marconi, 1000; w. l., 300, 450, 600.
Holden Evans.—Station operated and controlled by owner of vessel.
Honolulu.—Station operated and controlled by Moore & McCormack Co.
Howick Hall.—Range, 150.
Intrepid.—Range, 150; system, Marconi, 1000; w. l., 300, 600.
Invincible.—W. l., 300, 450, 600.
J. A. Bostwick.—Range, 300.
Japan Arrow.—Range, 300; system, R. C. of A., 1000; w. l., 300, 600; hours, X.
Java Arrow.—Hours, N.
Jeff Davis.—Station operated and controlled by S. O. R. S.
Jonancy.—Range, 150; system, Navy, 1000; w. l., 300, 450, 600.
Kanawha.—Black Star Line owner of vessel.
KENNECOTT.—Range, 300; system, Kilbourne & Clark, 1000; w. l., 300, 460, 550, 600; rates, North and South American and transoceanic services, 4 c per word; station operated and controlled by owner of vessel.

KINGFISHER (KDNJ).—Range, 200; system, I. W. T. Co., 1000; rates, North and South American and transoceanic services, 4 c per word.

LA BREA.—Rates, North and South American service, 8 c per word; transoceanic service, no rates.

LAKE COPLEY.—System, Navy-Marconi, 1000.

LAKE FLAG.—Range, 200; system, Navy, 1000; w. l., 300, 460, 600.

LAKE PLEUM.—System, Navy-Marconi, 1000.

LAKE FONDA.—System, Navy-International, 1000.

LAKE GIRARDEAU.—Range, 200; system, Navy-Marconi, 1000; w. l., 300, 600.

LAKE JANET.—System, Navy-Marconi, 1000.

LAKE LOUISE.—System, Navy-Marconi, 1000

LAKE MIRAFLORES.—Station operated and controlled by I. W. T. Co.

LAKE ST. REGIS.—Range, 200; system, Navy-Marconi, 1000.

LAKE WASHBURN.—System, Kilbourne & Clark, 1000.

LANSDING.—Rates, North and South American service, 8 c per word; transoceanic service, no rates.

LA PLACENTIA.—Range, 300; system, R. C. of A., 1000; rates, North and South American and transoceanic services, 8 c per word; station operated and controlled by R. C. of A.

LITHOPOLIS.—System, Navy-Marconi, 1000.

LIVINGSTONE.—Name changed to Westland.

L. J. DRAKE.—W. l. 300, 460, 600; hours, X.

LOS ANGELES.—Rates, North and South American service, 8 c per word; transoceanic, no rates.

LYMAN STEWART.—Rates, North and South American service, 8 c per word; transoceanic, no rates.

MANATEE.—Range, 300; system, Marconi, 1000; w. l., 300, 460, 600.

MANULANI.—Range, 300; system, R. C. of A., 1000; rates, North and South American and transoceanic services, 8 c per word; station operated and controlled by R. C. of A.

MARINA.—Range, 150.

MARNE (KDLV).—Station operated and controlled by R. C. of A.

MAUNA KEA.—Range, 150; system, Marconi, 1000.

MEANTICUT.—Station operated and controlled by S. O. R. S.

MINNESOTA (WEK).—Station operated and controlled by S. O. R. S.

MOUNT CLAY.—Range, 300; system, Navy-Lowenstein, 1000; w. l., 300, 460, 600, 1800; rates, North and South American and transoceanic services, 8 c per word; station operated and controlled by owner of vessel.

NEW BRITAIN.—W. l. 300, 460, 600.

NEWPORT.—Rates, North and South American service, 8 c per word; transoceanic, no rates.

NOBLES.—Station operated and controlled by R. C. of A.

NORA.—Range, 300; system, Marconi, 1000.

NORMAN BRIDGE.—Range, 300.

NORTH LAND (KJD).—Range, 150; system, Marconi, 1000.

NYANZA.—Station operated and controlled by Moore & McCormack.

OCEUM.—Rates, North and South American service, 8 c per word; transoceanic, no rates.

ORLEANS.—System, Navy-Marconi, 1000; hours, X.

OSAGE.—Station operated and controlled by Moore & McCormack.

OZMO.—Station operated and controlled by owner of vessel.
PARTHIAN.—Station operated and controlled by owner of vessel.
PEQUOT.—Range, 150; system, Simon, 1000; hours, X.
PERFECTION.—Range, 150; w. l., 300, 600.
POINT ADAMS.—Rates, North and South American service, 8 c per word; transoceanic no rates.
POINT BONITA.—Rates, North and South American service, 8 c per word; transoceanic no rates.
POINT JUDITH.—Rates, North and South American service, 8 c per word; transoceanic no rates.
POINT LOBOS.—Rates, North and South American service, 8 c per word; transoceanic no rates.
RAYO.—Range, 300; system, Marconi, 1000; w. l., 300, 450, 600.
SAG HARBOR.—System, Navy-Marconi, 1000.
SAN JOSÉ (WWL).—Rates, North and South American service, 8 c per word; transoceanic no rates.
SAN JUAN (KULV).—Range, 150; system, Kilbourne & Clark, 1000; w. l., 300, 450, 600; hours, X and N; rates, North and South American service, 4 c per word; station operated and controlled by owner of vessel.
SAN JUAN (WWM).—Rates, North and South American service, 8 c per word; transoceanic no rates.
SANTA CELELIA.—Range, 300; w. l., 300, 450, 600.
SANTA LEONORA.—System, Navy-Marconi, 1000.
SILVER STATE.—Range, 150-300; system, Navy-Wireless Specialty Apparatus Co., 1000; w. l., 300, 450, 600, 1800; station operated and controlled by S. O. R. S.
SIXAOLA.—Range, 300; system, Wireless Specialty Apparatus Co., 1000; w. l., 300, 600, 1800.
S. M. SPALDING.—Range, 300; system, Marconi, 1000; w. l., 300, 450, 600.
SOCONY.—Range, 300; system, Marconi, 1000; w. l., 300, 450, 600.
SOCONY 82.—Range, 150.
SOCONY 83.—Range, 150.
SOCONY 84.—W. l., 300, 450, 600; hours, X.
SOCONY 89.—Range, 150.
SOCONY 90.—Range, 150.
SOCONY 92.—Range, 150.
SOLANA.—Rates, North and South American service, 8 c per word; transoceanic service, no rates; station operated and controlled by Federal Telegraph Co.
STANLEY DOLLAR.—Range, 300; system, Kilbourne & Clark, 1000; w. l., 300, 450, 600; rates, transoceanic, no rates; station operated and controlled by I. W. T. Co.
STEPHEN R. JONES.—Range 200; system, Wireless Specialty Apparatus Co., 1000; w. l., 300, 450, 600.
SUNEWCO.—Range, 300; system, Navy, 1000; w. l., 300, 450, 600; station operated and controlled by Transmarine Corp.
SWIFT EAGLE.—Range, 300; system, Marconi, 1000; w. l., 300, 450, 600; rates, North and South American and transoceanic services, 8c per word; station operated and controlled by R. C. of A.
SWIFT SCOUT.—Range, 150; system, Marconi, 1000; w. l., 300, 450, 600; hours, X.
TANCARVILLE.—Range, 150; system, Marconi, 1000.
TENAPLY.—Station operated and controlled by S. O. R. S.
TUXPANOIL.—U. S. Shipping Board owner of vessel.
VANCOLLE.—Range, 300; system, Marconi, 1000; w. l., 300, 450, 600; hours, X.
VENEZUELA.—Rates, North and South American and transoceanic services, 8 c per word.
VIRGINIA BRIDGE.—Range, 300; system, Navy, 1000.
VITTORIO EMMANUELÉ III.—System, Navy-Marconi, 1000.
RADIO SERVICE BULLETIN.

WALTER JENNINGS.—Range, 300; system, Marconi, 1000; w. l., 300, 450, 600; hours, X. WASHTENAW.—Range, 300; North and South American service, 8 c per word; transoceanic, no rates.

WENATCHEE.—Range, 300–1000; system, Simon-spark, 1000 and Federal arc.; w. l., 300, 450, 600, 1800.

WEST BRIDGE.—System, Navy, 1000.

WEST INDIAN.—Station operated and controlled by I. W. T. Co.

WESTLAKE.—Hours, N.

WESTVILLE.—Edward P. Farley Co., owner of vessel.

WEST TUGTS.—Station operated and controlled by S. O. R. S.

WEST ZUCKER.—System, Navy, 1000; hours, X.

W. F. BURROWS.—Range, 200; w. l., 300, 450, 550, 600; rates, transoceanic, no rates.

WHITTLER.—Rates, North and South American service, 8 c per word; transoceanic no rates.

WICHITA.—Station operated and controlled by I. W. T. Co.

WICO.—Range, 300; system, Marconi, 480; w. l., 300, 450, 600.

WILLIAM ISOM.—Range, 300.

WILLPOLO.—Range, 300; system, Navy-Liberty, 1000; w. l., 300, 600.

WM. F. HARRIN.—Rates, North and South American service, 8 c per word; transoceanic, no rates.

W. S. REESE.—Name changed to Shreveport.

Strike out all particulars of the following-named stations:

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<th>Fort Stevens</th>
<th>Navahoe</th>
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<td>Buckhorn</td>
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<td>Oregon (WOU)</td>
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<td>Bonnette</td>
<td>Fort Scott</td>
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COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

KDOY, read Westland; KOKN, read Potomac; KUGV, read Willhilo; WGAB, read Shreveport. Strike out all particulars following the call signals, KDGL, KDHE, KEGB, KEBG, KEFG, KEGB, KEJG, KEK, KEQF, KEP, KERD, KETL, KETG, KETS, KEZK, KIC, KICD, KIGN, KIKZ, KICU, KNOA, KNOI, KONI, KNU, KNUU, KOR, KPEA, KPL, KPU, KQEA, KKEI, KRX, KSV, KSW, KUBQ, KVIA, KVW, KVY, KVB, WBEA, WBE, WDEA, WAHU, WGE, WLOE, WLO, WMIA, WNOE, WOU, WQOU, WRPA, WUSA, WVE, WXIO, WZI.

SPECIAL LAND STATIONS, BY NAMES OF STATIONS.

OELWEIN, IOWA (9ZQ).—Strike out all particulars.

PORTLAND, OREG. (7ZB).—Strike out all particulars.

SAN FRANCISCO, CALIF. (6XG).—Strike out all particulars.
MISCELLANEOUS.

NEW RATES FOR STATIONS OF MUTUAL TELEPHONE CO. IN HAWAII.

May 28, 1921.

SIR: Complying with your request of the 3d instant, you are hereby authorized, effective from July 1 next, to modify your licenses numbers 67, 76, 80, 82, and 83, so as to show the following rates for traffic handled at the stations herein named:

Interisland messages between the stations at Wahiawa, Lihue, Lahaina, Kaunakakai, and Kawaiihe; ordinary messages 15 cents per word; press messages 7½ cents per word; cipher or code messages, origin and destination Hawaiian Islands, 25 cents per word; night letters, first 24 words (minimum charge), $1, each additional word 4 cents. Night letters may be filed at any time, and will be delivered on the morning following date of filing. Night letters are not accepted for ships at sea. Night letters must be in plain language. Cablegrams or trans-Pacific wireless messages in cipher, code, foreign, or English will be accepted and forwarded at ordinary rates plus the forwarding charges of the cable or wireless company, when such messages are to be delivered to them for forwarding. Double-rush messages, which means all other traffic on the line stopped, except any previously filed double-rush message, and the double-rush message put through immediately, will be charged for at double rate. Messages filed in any language other than English will be charged for at code rate.

Ship messages via Wahiawa, Oahu, long distance station: Messages from ship to shore or shore to ship from or to any point on the islands of Oahu, Hawaii, Maui, Kauai, or Molokai 10 cents per word; press messages 5 cents per word, minimum charge 50 cents.

Respectfully,

C. H. Huston,
Assistant Secretary of Commerce.

MUTUAL TELEPHONE CO.,
Superintendent Wireless Dept.,
Honolulu, Hawaii.

OPERATORS' LICENSES SUSPENDED.

First-grade license No. 19417, issued at San Francisco, Calif., November 26, 1919, has been suspended for a period of three months on account of violation of article 6 of the International Convention service regulations, in that the holder of the license transmitted superfluous signals.

First-grade license No. 20741, issued at New York, N. Y., April 5, 1920, has been suspended for a period of three months on account of violation of section 7 of the act of August 13, 1912, in that the holder of the license transmitted a false call signal.

First-grade license No. 22302, issued at Baltimore, Md., February 10, 1921, has been suspended for a period of one month on account of violation of article 6 of the International Convention service regulations, in that the holder of the license transmitted superfluous signals.

First-grade license No. 19357, issued at New Orleans, La., January 7, 1920, has been suspended for a period of three months on account of violation of section 7 of the act of August 13, 1912, and article 6 of the International Convention service regulations, in that the holder of the license transmitted a false call signal and superfluous signals.
NOTICE TO MARINERS.

Dominion of Canada, No. 10-1921.

[Atlantic No. 6.]

NEW BRUNSWICK: BAY OF FUNDY—ST. JOHN HARBOR ENTRANCE—RADIO TELEGRAPH DIRECTION FINDING STATION ESTABLISHED.

1. The attention of masters of all vessels fitted with radiotelegraph apparatus is called to the fact that a new radiotelegraph direction finding station has been established named "St. John, N. B., Direction Finding Station."

2. Position: Near Red Head on east side of entrance to harbor and 1.93 miles, 67° 25' (N. 88° 55' E. mag.) from Partridge Island lighthouse. Latitude N. 45° 15' 4", longitude W. 66° 00' 47.7".

3. The same procedure is to be followed as described in Notice to Mariners No. 59 (93) of 1920.

4. The call signal of the station is VAR, and the wave length to be used in transmitting and receiving will be 800 meters.

All bearings, unless otherwise noted, are true and are given from seaward in degrees from 0° (north) to 360°, measured clockwise, followed by the magnetic bearing in degrees in brackets, miles are nautical miles, heights are above high water of ordinary spring tides, and all depths are at low water of ordinary spring tides.

CHANGE IN U. S. NAVAL RADIO STATIONS.

Effective, May 20, this year, the working wave of the Darien station, C. Z. (NBA), will be changed to 10,110 meters. The time signals will be sent out at 4.55 a.m. and 12.55 p.m., seventy-fifth meridian time.

Hereafter the station at Marshfield, Oreg. (NPW), will be open between 8 a.m. and 10 p.m. daily.

AMATEUR LICENSES REVOKED.

Several amateur second-grade operators have had their operators' and station licenses revoked for failure to appear for examination for an amateur first-grade license when given opportunity to do so.

ELECTRICALLY ENERGIZED CABLE FOR PILOTING VESSELS.

The following information was received from the American consul general, London, under date of April 25, 1921: "According to an announcement made by the British Admiralty, the leader cable is available for use, without charge, for vessels leaving or making Spithead in thick weather or for purposes of experiment. Application for the use of the cable should be made by the wireless station at Niton, Isle of Wight, call signal GNI, to the captain of the signal school at Portsmouth, or by telegraph on land. The seaward end of the cable is situated about 6½ miles southward from Nab Tower, in latitude 50° 33' 33'' N., longitude 0° 56' 43'' W."

PARAGRAPH 86 OF REGULATIONS REPEALED.

MAY 28, 1921.

To radio inspectors and others concerned:

Paragraph 86 of the Regulations Governing Radio Communication, edition of August 15, 1919, page 58, is hereby repealed to take effect on July 1, 1921, as to stations now operating without license under paragraph 86, and to take effect immediately as to new stations for which applications may be filed under paragraph 86.

For the Secretary:

C. H. Huston,
Acting Secretary of Commerce.
CHANGE IN HOURS OF OPERATION FOR STATION OF SEAMEN'S CHURCH INSTITUTE.

The radio station of the Seamen's Church Institute Radio School (KDKF), located at 25 South Street, New York, N. Y., now maintains a continuous watch for the purpose of giving medical advice in cases where persons are injured or sick on vessels at sea.

GENERAL INFORMATION FROM THE BERNE INTERNATIONAL BUREAU.

Faroe Islands.—Beginning May 1, this year, the inland telegraphic charge applicable to radiotelegrams originating in or intended for localities in the Faroe Islands and exchanged directly with the coast stations of the islands is 0 fr. 14 per word for ordinary radiotelegrams, with a minimum of 1 fr. 40, and 0 fr. 42 per word for urgent radiotelegrams with a minimum of 4 fr. 20 per radiogram.

Portugal.—The coast station, Porto, now has permanent service (N).

Erythrea.—The hours of service of the coast stations of Assab radio and Massaua I R G are now as follows:

Assab Radio 1–5 a. m., 8–11 a. m., 4–7 p. m., Greenwich mean time.
Massaua I R G: 12 (noon) to 5 a. m., Greenwich mean time.

Italy.—Beginning May 1, this year, each radiogoniometric bearing worked out by a fixed Italian station, requested by a movable station, shall be subject to the collection of a fixed station tax of 6 francs. The radiotelegrams of this kind will be considered in the settling of accounts under the same conditions as the ordinary radiotelegrams originating on ships and destined for Italy.

Norway.—The coast stations of Flekkeroy and Tjome maintain a permanent service. N will replace N¹ (column 8) in the nomenclature of radiotelegraphic stations.