

CALIFORNIA.

SAN FRANCISCO BAY.—GRANT AVENUE PIER.—LIGHT AND FOG-SIGNAL ESTABLISHED.—On 14th May, 1914, a fixed red light of about 80 candle-power was established by the State Board of Harbour Commissioners on Grant Avenue Pierhead, San Francisco Bay, California, on the bearings—

Goat Island Lighthouse .. .. .	95° 30'
Fort Point Lighthouse .. .. .	270° 00'
Alcatraz Lighthouse .. .. .	330° 00'

On the same date an automatically operated 1,500-pound fog-bell was established at the same point to sound *I* group of 2 strokes every 4 seconds—thus, stroke, silent interval 1 second; stroke, silent interval 3 seconds.

Approx. position : Lat. 37° 48' 40" N., long. 122° 24' 30" W.

PENINSULA POINT.—GAS AND BELL BUOY ESTABLISHED.—BELL-BUOY DISCONTINUED.—On 22nd May, 1914, Peninsula Point gas and bell buoy 1, conical, with pyramidal skeleton superstructure, showing a flashing white light every 15 seconds—thus, flash 5 seconds, eclipsed 10 seconds—was established off Peninsula Point, San Francisco Bay, California, in place of Peninsula Point bell-buoy 1, which was discontinued.

Approx. position : Lat. 37° 51' 40" N., long. 122° 27' 23" W.

SAN FRANCISCO BAY ENTRANCE.—GAS AND WHISTLE BUOY REPLACED BY WHISTLE-BUOY.—On 5th June, 1914, Inside Bar whistle-buoy, painted in perpendicular stripes, was established at San Francisco Bay entrance, California, in place of Inside Bar gas and whistle-buoy 2A, which was discontinued.

Approx. position : Lat. 37° 46' 50" N., long. 122° 34' 30" W. H.O. Charts Nos. 527 and 1006.

U.S. Coast Survey Charts Nos. 5002, 5052, 5502, 5500, 5530, and 5532.

SAN PABLO BAY.—CARQUINEZ STRAIT.—BUOY MOVED.—On 4th June, 1914, San Pablo Bay buoy 1, a first-class can, Carquinez Strait, San Pablo Bay, California, was moved about 265 yards 234° 30' and re-established in 4½ fathoms of water.

Approx. position : Lat. 38° 4' 7" N., long. 122° 15' 4" W.

SEA-COAST.—ELK HARBOUR.—BELL-BUOY ESTABLISHED.—On 6th June, 1914, Elk Harbour bell-buoy E.H., painted in perpendicular stripes, was established in 18 fathoms of water off the entrance to Elk Harbour, sea-coast of California, on the bearings—

Spire .. .. .	16° 45'
Cupola .. .. .	80° 30'
Outer Rock, right tangent .. .. .	137° 15'

ALAMEDA CHANNEL.—BUOYS TO BE ESTABLISHED.—About 1st July, 1914, the following buoys, each a second-class spar, will be established in about 4½ fathoms of water to mark the newly dredged channel, Alameda Channel, San Francisco Bay, California :—

Alameda Channel Buoy 1, on the bearings—	
Bay Farm Island, tangent to wharf ..	177° 30'
Oakland Harbour Lighthouse .. .. .	286° 00'
Oakland City Hall Tower .. .. .	330° 30'
Alameda Channel Buoy 3, on the bearings—	
Bay Farm Island, tangent to wharf ..	182° 30'
Oakland Harbour Lighthouse .. .. .	288° 15'
Oakland City Hall Tower .. .. .	328° 00'
Alameda Channel Buoy 5, on the bearings—	
Bay Farm Island, tangent to wharf ..	186° 45'
Oakland Harbour Lighthouse .. .. .	289° 00'
Oakland City Hall Tower .. .. .	325° 30'

SAN PEDRO BAY.—LONG BEACH.—BELL-BUOY TO BE ESTABLISHED.—About 15th June, 1914, Long Beach bell-buoy 1 will be established in 5½ fathoms of water about ½ mile off the end of the west jetty at the entrance to Long Beach Harbour, San Pedro Bay, California, on the bearings—

Long Beach Wharf, tangent .. .. .	61° 30'
Deadmans Island Breakwater Light ..	239° 00'
West Jetty, right tangent .. .. .	336° 00'

SAN FRANCISCO BAY ENTRANCE.—GAS AND WHISTLE BUOY TO BE REPLACED BY WHISTLE-BUOY.—About 1st June, 1914, Inside Bar whistle-buoy, painted in perpendicular stripes, will be established at San Francisco Bay entrance, California, in place of Inside Bar gas and whistle buoy 2A, which will then be discontinued.

Approx. position : Lat. 37° 46' 50" N., long. 122° 34' 30" W.

ALVISO CHANNEL.—BEACON DISCONTINUED.—On 15th May, 1914, Alviso Channel beacon 3, San Francisco Bay, California, was permanently discontinued.

Approx. position : Lat. 37° 32' 5" N., long. 122° 8' 45" W.

CHILE.

MAGELLAN STRAIT.—CAPE POSSESSION LIGHT.—CHARACTERISTIC CHANGED.—Information has been received that Cape Possession light, Magellan Strait, Chile, has been changed from fixed and flashing to flashing white every 30 seconds—thus, flash 6 seconds, eclipsed 24 seconds.

Approx. position : Lat. 52° 17' 54" S., long. 68° 57' 10" W.

VALPARAISO HARBOUR.—BREAKWATER UNDER CONSTRUCTION.—BUOYS ESTABLISHED.—The Chilean Government has given notice that a breakwater is under construction off Duprat Point, Valparaiso Harbour, Chile. When completed, the breakwater will extend 317 yards 80° from the point, with a width of about 15 yards above water. The rubble work will extend from the point 400 yards, with a width of 117 yards at the extremity, narrowing toward the shore.

The following buoys have been established to mark the construction work and the area prohibited to navigation :—

A red cylindrical iron buoy N, at the northern side of the eastern part, on the bearings—

Habas Mole .. .. .	270° 00'
Fiscal Mole .. .. .	190° 00'

A red cylindrical iron buoy S, at the southern side of the eastern part, on the bearings—

Habas Mole .. .. .	292° 00'
Fiscal Mole .. .. .	200° 00'

A red cylindrical iron buoy N, on the bearings—

Habas Mole .. .. .	273° 00'
Fiscal Mole .. .. .	183° 00'

A red cylindrical iron buoy S, on the bearings—

Habas Mole .. .. .	297° 00'
Fiscal Mole .. .. .	189° 00'

A square red wooden buoy N, on the bearings—

Habas Mole .. .. .	284° 30'
Fiscal Mole .. .. .	174° 30'

A square red wooden buoy S, on the bearings—

Habas Mole .. .. .	298° 00'
Fiscal Mole .. .. .	179° 30'

A square red wooden buoy N, on the bearings—

Habas Mole .. .. .	286° 30'
Fiscal Mole .. .. .	173° 00'

A square red wooden buoy S, on the bearings—

Habas Mole .. .. .	304° 00'
Fiscal Mole .. .. .	172° 30'

U.S. NAVAL RADIO SERVICE.

ATLANTIC AND PACIFIC COASTS.—TIME-SIGNALS.—Beginning 10th June, 1914, time-signals will be sent by radio, on the Atlantic and Pacific Coasts, as follows :—

Station.	Wave-length, Meters.	When sent.
Arlington, Va. ..	2,500	Noon and 10 p.m., each day of year, Standard Time, 75th meridian.
Key West, Fla. ..	1,500	Ditto.
New Orleans, La. ..	1,000	Noon, each day of the year, Standard Time, 75th meridian.
North Head, Wash. ..	2,000	Noon, daily except Sundays and holidays, Standard Time, 120th meridian.
Eureka, Cal. ..	1,600	Ditto.
Point Arguello, Cal. ..	750	"
San Diego, Cal. ..	2,000	"
Mare Island, Cal. ..	1,600	Noon and 10 p.m., each day of year, Standard Time, 120th meridian.

If for any reason the Arlington Station is out of commission, the time-signals will be sent at noon daily, Sundays and holidays excepted, by the stations at Newport, New York, Norfolk, and Charleston.

The time for the Atlantic Coast is sent from the Naval Observatory at Washington, and for the Pacific Coast from the observatory at Mare Island Navy Yard.

JAPAN.

SOUTHERN ISLANDS.—LANGDALE (ABREOJOS) ISLAND.—INFORMATION.—The following information concerning Langdale (Abreojos) Island, Southern Islands, Japan, has been received from the Hydrographic Office, Tokyo :—

Since Abreojos or Langdale Island was placed on the charts information respecting its existence or non-existence has frequently been received, but with the exception of the following this information is of doubtful value,—