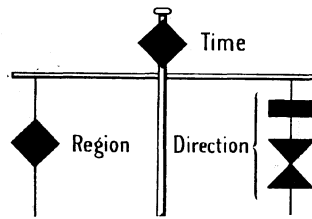


## GALE SIGNAL.



The north coast of Hokushu threatened by a gale from S.W. Warning issued yesterday afternoon.

The China Seas storm-signal system is used at the following storm-signal stations:—

1. (a.) The stations of the Maritime Customs at Newchwang, Taku, Chefoo, Chinkiang, Wusung, Gutzlaff, Pagoda Anchorage, and Amoy.
  - (b.) The French Municipal station at Shanghai.
  - (c.) The British station at Wei-hai-wei.
- In connection with Storm Warnings issued by
- Sikawei Observatory.
- Royal Observatory. Hong Kong.
- (Storm warnings are also issued to, but are not signalled from Antung, Chin-wang-tao, Hankow, Ningpo, Chinhai, and Wenchau.)

The foregoing system of storm-signals has been drawn up by joint agreement between the Observatories at Sikawei and Hanoi and the Chinese Maritime Customs. The system is now in operation at the storm-signal stations named above; the date of its coming into operation at the storm-signal stations of the Hanoi Observatory will be notified later.

## SUMATRA.

EAST COAST.—AMPHITRITE BAY.—LIGHT-BUOY WITHDRAWN.

*Position.*—At a distance of about 8½ miles, southward, of Tanjong Datu. Lat. 0° 8½' S., long. 103° 48½' E.

*Description.*—A light-buoy painted white, formerly exhibiting a fixed red light.

*Remarks.*—The light-buoy has been withdrawn.

RHIO STRAIT.—RHIO APPROACH.—LIGHT-BUOY WITHDRAWN.

*Position.*—On the western side of the entrance of the channel to the inner roadstead of Rhio. Lat. 0° 54¼' N., long. 104° 26' E.

*Description.*—A light-buoy painted black, formerly exhibiting a flashing white light.

*Remarks.*—The light-buoy has been withdrawn.

## CHILI.

VALPARAISO.—RADIO TIME-SIGNAL ESTABLISHED.

In accordance with international custom the Office of Hydrography and Navigation, beginning with 1st January, 1918, is transmitting the time by means of radio telegraphy, daily except Saturdays, Sundays, and holidays.

The signals begin exactly at 12 h. 55 m. of Greenwich mean time and terminate at 13 h. 00 m. 00 s. of the Greenwich meridian. During this interval each tick or beat of the master chronometer of the office is transmitted by the radio wave, except the twenty-ninth second of each minute and the ten last seconds of each one of the five minutes, the termination of the five minutes, which is 13 h. exactly of Greenwich time, being marked by a long contact to indicate the end of the signal.

## BRAZIL.

EAST COAST.—RIO DE JANEIRO HARBOUR.—TELEGRAPH-CABLE BUOYS.—COLOUR CHANGED.

The two light-buoys, formerly painted blue, which mark the line of the telegraph cable in Guanabara Bay, between the cities of Rio de Janeiro and Nietheroy, have now been painted white, with "T" in blue; experience having suggested this colour in consequence of the aquatic birds. When lighted the buoys will continue to show blue lights, as heretofore.

STATE OF SANTA CATHARINA.—BATUBA POINT (MORRO DE IMBITUBA).—LIGHT ESTABLISHED.

Information has been received that on the night of 1st January, 1918, was to be established on the point of the Morro de Imbituba, at Imbituba, an automatic gas light, showing *flashing white* every 3 seconds (light 0·3 second, eclipse 2·7 seconds), with visibility of 15 miles in clear weather. The light is exhibited from an iron structure, the focal height being 34·5 ft. above the ground and 238·7 ft. above mean sea-level.

Approx. position: 28° 17' S., 48° 40' 13" W.

## HAWAIIAN ISLANDS.

OAHU.—HONOLULU HARBOUR.—INTENDED CHANGES IN AIDS.

About 1st April, 1918, the following changes will be made in the aids in Honolulu Harbour:—

Honolulu Channel range-lights will be established as follows:—

Front light, *fixed red*, of 600 candle-power, 56 ft. above the water, on the roof of Pier 7.

Rear light, *fixed red*, of 1,000 candle-power, 112 ft. above the water, on a skeleton tower on the eastern corner of the roof of McCandless Building, 620 yards 29° 30' from the front light.

*Note.*—The structures for these lights will be erected, but the lights will not be exhibited until further notice.

Honolulu Entrance Gas-buoy 1 will be moved about 240 yards 205° and re-established in 6½ fathoms of water eastward of a 25 ft. spot.

Honolulu Entrance Buoy 2 will be moved about 125 yards 199° and re-established in 10 fathoms of water.

Honolulu Channel Buoy Light 3 will be discontinued.

Honolulu Channel Light 4 will be moved about 160 yards 25° and re-established in 1½ fathoms of water.

Honolulu Channel Light 7 will be discontinued.

Honolulu Temporary Range Light will be discontinued.

Honolulu Channel Light 5 will be renumbered 3.

Honolulu Channel Gas-buoy 9 will be renumbered 5.

## AUSTRALIA.

SOUTH-EAST COAST.—CAPE EVERARD.—FLOATING MINES REPORTED.

The master of an American motor ship reports that on 7th December, 1917, he passed within 20 ft. of a floating mine about 20 miles westward of Cape Everard and about 15 miles offshore, and that several days later a German floating mine was picked up in the vicinity.

VICTORIA.—MELBOURNE.—WIRELESS TIME-SIGNALS ESTABLISHED.

*Position.*—Lat. 37° 50' S., long. 144° 58¾' E.

*Details.*—Wireless time-signals, in accordance with the system adopted by the International Time Convention, have been established at Melbourne.

The signals are made at 00 h. 00 m. 00 s. and 12 h. 00 m. 00 s. standard time, corresponding to 14 h. 00 m. 00 s. and 2 h. 00 m. 00 s. G.M.T. respectively, as follows:—

*Preparative Signals.*

A series of the letter "X" of the Morse code from 23 h. 57 m. 00 s. to 23 h. 57 m. 50 s., and from 11 h. 57 m. 00 s. to 11 h. 57 m. 50 s., followed by three *dashes* ending at 23 h. 58 m. 00 s. and 11 h. 58 m. 00 s.

*First Series of Time-signals.*

From 23 h. 58 m. 08 s. and 11 h. 58 m. 08 s., the letter "N" of the Morse code, repeated every 10 seconds, the *dot* being made at each even 10 seconds; followed by three *dashes* ending at 23 h. 59 m. 00 s. and 11 h. 59 m. 00 s.

*Second Series of Time-signals.*

From 23 h. 59 m. 06 s. and 11 h. 59 m. 06 s., the letter "G" of the Morse code repeated every 10 seconds, the *dot* being made at each even 10 seconds followed by three *dashes* ending at 00 h. 00 m. 00 s. and 12 h. 00 m. 00 s.

*Note.*—The *dashes* are of about one second and the *dots* of about a quarter of a second duration, each sign being separated from the one which immediately follows in the same group by an interval of about one second duration.