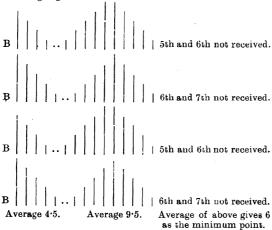
is again received. Third: This process should be repeated several times in order that an average may be obtained. The following is an example which will serve to illustrate the foregoing



This value can also be obtained from the following formula:

 $\begin{array}{l} R_1 = \text{Number of sigs. received after the gap.} \\ R_2 = \text{Number of sigs. received before the gap.} \\ N = \underbrace{(17-R_1)+R_2}_{\text{o}} \end{array}$ 

In the above example-

$$R_1 = 9.5$$
 and  $R_2 = 4.5$ .  
 $N = \frac{(17 - 9.5) + 4.5}{2} = \frac{7.5 + 4.5}{2} = \frac{12}{2} = 6....$ 

Therefore 6 sigs. is equivalent to the sixth point from north in an easterly direction, or N. 67° 30′ E. Attention is called to the fact that two bearings, differing by 180°, are obtained from these readings. One of these bearings is obtained from these readings. One of these bearings is imaginary. However, owing to the geographical location of this station, little difficulty should be experienced in separating the true from the false reading, as the false usually shows a position inland. Owing to the limited power employed, the sigs, should not be expected at a dist, exceeding 30 miles. It is urgently requested that all vessels making use of this station forward a report of results obtained to the Hydrographic Office in order that any large errors of the set may be corrected.

Approx. position of station: 40° 37′ 42″ N., 73° 13′ 8″ W. April. BRAZIL.

EAST COAST.—NEGRA POINT LIGHT.—CHARACTERISTIC IRREGULAR.

The first officer of a Norwegian steamer reports that on the night of 27th March, 1917, Negra Point light was observed to be showing 1 group of 2 flashes every 10 seconds—thus, flash 0.5 second, eclipsed 2.5 seconds; flash 0.5 second, eclipsed 6.5 seconds—and not as given in the Light List.

Approx. position: Lat. 22° 57′ 30″ S., long. 42° 40′ W.

RIO DE JANEIRO APPROACH.-RAZA ISLAND LIGHT.-CHARACTERISTIC IRREGULAR.

The first officer of a Norwegian steamer reports that on the night of 27th March, 1917, Raza Island light was observed to show 1 red and 2 white flashes every 6 seconds, and not as given in the Light List.

Approx. position: Lat. 23° 3′ 40″ S., long. 43° 8′ 45″ W.

RIO DE JANEIRO BAY.-FEITICEIRAS BANK LIGHT IMPROVED.

On 30th March, 1917, the flashing red light on Feiticeiras Bank was improved and is now visible 10 miles. The light is unwatched and shows 1 group of 2 flashes every 6 seconds—thus, flash 0·3 second, eclipsed 0·9 second; flash 0·3 second, eclipsed 4.5 seconds.

Approx. position: Lat. 22° 52′ 50″ S., long. 43° 9′ 45″ W.

## ARGENTINA.

PLATA RIVER ENTRANCE.—PIEDRAS POINT.—LIGHT ESTABLISHED.

On 21st April, 1917, a flashing white light every 15 seconds -thus, flash 0.4 second, eclipsed 14.6 seconds—was established on Piedras Point.

The light is exhibited 111 ft. above high water from a square pyramidal iron structure 66 ft. high, with a disk 10 ft. in diameter placed in a northwest-southeast direction below the upper platform.

Approx. position: Lat. 35° 26′ 52″ S., long. 57° 8′ 55″ W.

#### SOUTH AFRICA.

CAPE OF GOOD HOPE.—TABLE BAY.—PROHIBITED ANCHORAGE.

Position.—Somerset Hospital, lat. 33° 54½′ S., long. 18° 25' E.

Details.—Anchorage is prohibited between two lines drawn for a distance of 2½ miles respectively, from Somerset Hospital flagstaff, in the following directions: (a) 356° (N. 23° E. mag.); (b) 346° (N. 13° E. mag.).

Note.—The prohibited anchorage is to be placed on the charts.

Remarks.—The cable buoy formerly situated about 5 cables north-eastward of Fort Knockle has been withdrawn. Variation .- 27° W.

#### RED SEA, ETC.

RED SEA, GULF OF ADEN, PERSIAN GULF, ARABIAN SEA, BAY OF BENGAL, AND MALACCA STRAIT.—CAUTION WITH REGARD TO EXTINCTION OF LIGHTS.

Former Notice.—No. 359 of 1917; hereby cancelled.

1. The lights at the following places have been extinguished: Massawa and approaches (except Shab Shakhs), Aden, Jibuti and vicinity (except Ras al Bir), Cope Monze, Karachi, Bombay and vicinity, Colombo, Barberyn, Madras, Calcutta and Hugli River approaches, Rangoon River approaches, Paramy Simpopers

Proaches, Penang, Singapore.

Vessels are prohibited from entering the Port of Massawa between sunset and 6.0 a.m., and they should not approach

the Port between these hours.

2. All lights in the Persian Gulf and on the coasts of India, Ceylon, and the Bay of Bengal are liable to be extinguished without notice. Vessels should arrange to arrive at their destinations during daylight hours.

Note.—This notice is a republication of the former notice

quoted above, with additional information.

## INDIA.

#### BOMBAY HARBOUR. - APPROACHES.

Vessels engaged in sweeping the approaches to the port will work in pairs, and will show the following sigs: A black ball at the masthead and a black ball at the yardarm or where it can best be seen on that side on which it is dangerous for vessels to pass. No vessel is ever to attempt to pass between a pair of vessels engaged in sweeping. Vessels engaged in sweeping and showing the above sigs. are unable to follow the rule of the road, and therefore all other vessels are to keep out of the way. May.

## JAPAN.

Inland Sea.--Shimonoseki Strait.-Eastern Entrance. -NAKANO SU.-LIGHT-BUOY ESTABLISHED.

Nakano Su North light-buoy, red, conical, showing 10 ft. above the water, a fixed red light, visible 4 miles, has been established on the northern edge of Nakano Su, 2,840 yards  $355^{\circ}$  from He Saki Lighthouse

Approx. position: Lat. 33° 59' N., long. 131° 1' 15" E.

## CHINA.

Hong Kong Harbour.—Lights extinguished.—Port CLOSED AT NIGHT.

All lights at Hong Kong are extinguished and the port is closed at night. No vessels are allowed to enter the harbour before 7.30 a.m., and any vessel anchoring outside the harbour to await daylight will be viewed with suspicion.

# HAWAIIAN ISLANDS.

OAHU ISLAND .- HONOLULU HARBOUR .- LIGHTS EXTINGUISHED

Until further notice the following lights in Honolulu Harbour will be extinguished:

Honolulu temporary range-light. Entrance gas-buoy No. 1. Honolulu Channel buoy-light No. 3.

Honolulu Channel light No. 4. Honolulu Channel light No. 5. Honolulu Channel buoy-light No. 6.

Honolulu Channel light No. 7.

Honolulu Channel gas-buoy No. 9.

# CLOSED BY NIGHT.

Mariners are hereby warned that Honolulu Harbour is closed from sunset to sunrise, and all lights are extinguished.

closed from sunset to sunrise, and all lights are extinguished. 24th April, 1917.

1. A F. red lt., clev. 60 ft., R. 5 miles, is exh. from a red frame lt.-h.. in 21° 18¾ N.. 157° 52′ W., on Stevenson's wharf, 5 cables 145 yds. 22° (N. 12° E. mag.) from Honolulu Lt.-h. near the ern. end of Sand Isl. This lt., which is knwon as Honolulu temp. leading-lt., when in line with Honolulu lt,. 22° (N. 12° E. mag.), marks the centre of the outer reach of the entr. chan. 2. The F. red lt. on coal-shed at end of