

Also, that the beacon which formerly stood on North Rock has been taken down.

[Variation 1° Easterly in 1892.]

This Notice affects the following Admiralty Charts:—Great Bahama Bank, No. 2077; Ship Channel, No. 1509. Also, List of Lights, Part VII, 1892, page 144; and West India Pilot, Vol. II, 1887, page 512.

No. 487.—ALL STATIONS.

ENGLAND—EAST COAST.

RIVER THAMES ENTRANCE.

DUKE OF EDINBURGH CHANNEL.

*Decreased Depth on Shingles Patch.*

INFORMATION has been received from Staff Commander Maxwell, H.M. surveying-vessel "Triton," that the water on Shingles Patch, Duke of Edinburgh Channel, has decreased to 16 feet.

The outline of the shoal, or the contour line of 5 fathoms, is practically unaltered.

Approximate position of shoalest part, lat. 51° 31' 50" N., long. 1° 17' 35" E.

This Notice affects the following Admiralty Charts:—North Foreland to Orfordness, No. 1610; North Foreland to the Nore, No. 1607. Also, North Sea Pilot, Part III, 1889, pages 340, 344, 345.

No. 488.—CAPE, EAST INDIES, CHINA, AND AUSTRALIA STATIONS.

CHINA SEA.—BORNEO—NORTH-WEST AND NORTH COASTS.

THE following information concerning the existence of a shoal lying off the north-west coast of Borneo; and the buoyage, &c., of Mallawallé Channel, has been received from Commander A. M. Field, Her Majesty's surveying-ship "Egeria":—

(1.) *Shoal North-West of Acis Shoals.*

A shoal (James Shoal), with 12 fathoms water on it, and 22 to 31 fathoms around, lies about 25 miles north-west of Acis Shoals, in approximately lat. 4° 0' N., long. 112° 18' E.

(2.) *Mallawallé Channel—Buoys and Beacons.*

a. *Billean Island.*—A cylindrical buoy, painted red and black in horizontal stripes, and surmounted by a black spherical cage (20 feet above the sea), is moored on the east extreme of the 2½ fathoms shoal lying N.E. by N. from Billean Island, with the north end of that Island in line with the centre of Tagipil Island bearing S. 36° W. in approximately lat. 6° 38' 55" N., long. 117° 47' 50" E.

CAUTION.—A shoal, with three fathoms water on it, lies about one mile N.E. ¼ E. from Billean Buoy, which does not therefore mark the edge of the danger line north-east of Billean.

b. *Leonan Reef.*—A beacon consisting of a framework iron tripod surmounted by a black triangle, has been erected on the south-east extreme of Leonan Reef, with Kalangaan Island bearing N. 74° W., distant 7¾ miles. Approximate position, lat. 6° 44' 30" N., long. 117° 37' 40" E.

A small red buoy, surmounted by a ball (6 feet above the sea), is moored with Leonan Reef Beacon bearing S. 61° W., dista. 2¼ miles.

c. *Sandy Island.*—A beacon, consisting of a framework tripod, painted red and black, and surmounted by a cage 35 feet high, has been erected on Sandy Island, with Sipindung Island bearing N. 59° W., distant 4¼ miles. Approximate position, lat. 6° 49' 30" N., long. 117° 37' 10" E.

d. *Sipindung Island.*—A small red buoy, surmounted by a ball (6 feet above the sea), is moored with Sipindung Island bearing N. 33° E., distant 1½ miles, or in approximately lat. 6° 50' 45" N., long. 117° 32' 35" E.

CAUTION.—A note has been placed on Admiralty Chart, No. 1650, to the effect that "the route marked has been followed with safety, but in such reef-strewn waters other dangers not charted may exist."

[Variation 2° Easterly in 1892.]

This Notice affects the following Admiralty Charts:—China Sea, No. 1263 (1); China Sea, No. 2660b; Paláwan Island, No. 967 (2); Salu Archipelago, and N.E. part of Borneo, No. 2576 (2); Gaya Bay to Sandakan Harbour, No. 287 (2); Mallawallé Island to Lankayan, No. 1650 (2). Also, China Sea Directory, Vol. II, 1889, pages 138, 199, 200; and Sailing Directions for the Eastern Archipelago, Part I, 1890, pages 164, 167–171.

No. 489.—CAPE, EAST INDIES, CHINA, AND AUSTRALIA STATIONS.

CHINA SEA.—BORNEO—NORTH AND EAST COASTS.

*Newly Discovered Dangers.*

THE following information relating to the existence and particulars of the undermentioned dangers and banks lying off the north and east coasts of Borneo, has been received from Commander A. M. Field, Her Majesty's surveying-ship "Egeria":—

1. *Banguay South Channel.*—A coral head (Ten Foot Rock), 70 yards long in an E.N.E. and W.S.W. direction, and 30 yards broad, with a least depth of 10 feet at low water spring tides, and 17 fathoms close around, lies near the fairway of South Banguay Channel, with Petrel Rock bearing N.N.E. ¾ E., distant about seven cables, or in approximately lat. 7° 3' 50" N., long. 117° 6' 10" E.

CAUTION.—As no less than three shoal patches have recently been discovered in the track usually followed in this part of Mallawallé Channel, the utmost caution must be used in navigating this locality, as well as the whole channel to Sandakan, as it is more than probable that others exist as yet undetected.

2. *Lankayan Island.*—A coral patch (Kechi Rock), about three cables in extent, with 4½ fathoms water on it, and 19 to 21 fathoms around, lies with Lankayan Island bearing about S.W. ½ W., distant seven miles. Approximate position, lat. 6° 34' 40" N., long. 118° 1' E.

3. *Langaan Island.*—A coral patch (Johnston Rock), four cables long in an N.N.W. and S.S.E. direction, and two cables broad, with 13 feet on it at low water spring tides, and 18 fathoms around, lies with the south-east extreme of Langaan Island bearing S.W. ¾ W., distant 2¾ miles. Approximate position, lat. 6° 13' 20" N., long. 118° 11' 15" E.

4. *Nymph Reef.*—A coral shoal (Royalist Rock), four cables long in a N.N.E. and S.S.W. direction, with a least depth of six feet at low water spring tides near its south-west end, and 18 fathoms around, lies with Nymph Reef bearing N.N.E., distant about 1¾ miles. Approximate position, lat. 5° 42' 50" N., long. 118° 40' E.

5. *Sunday Bank,* previously known to exist, somewhat circular in shape and about five miles in extent, has depths of nine to 47 fathoms on it, and deep water around. The shoalest part found (nine fathoms over coral) lies near its western edge in approximately lat. 5° 49' 30" N., long. 119° 9' E.

6. *A bank (Normanby Bank),* about five miles long in a N.N.E. and S.S.W. direction, and 2½ miles broad, has depths of six to 50 fathoms on it, and deep water around. The shoalest part found (six fathoms over coral) lies near its south-