

steer to pass midway between the western shore of the islands and Casco, Pope, and Indian Islands, taking care on approaching Pope Island to keep White Horse Island open east of Casco Island, in order to avoid Pope Shoal.

Having rounded Cherry Island, steer for a mid-channel course between Deer Point and Dog Island, and after passing Kendall Head, the NE. point of Moose Island, either borrow on the Deer Island shore or bring the English redoubt over Eastport in line with Kendall Head in order to clear Floss Ledge; a closer mark to clear the same ledge is Point Pleasant Church, apparently touching the eastern tangent of Pleasant Island. Beyond this there are no dangers until approaching Navy Island, off Port St. Andrews; and in case of necessity good anchorage may be obtained in any part of Passamaquoddy Bay, in muddy bottom.

The best anchorage outside Port St. Andrews is to the NW. of Navy Island, in about 10 fathoms, clay, with the block house on Joe Point bearing N. 2° W. and the NW. beacon in line with the north end of Navy Island S. 69° E. When approaching the NW. shoal keep the south point of Navy Island well open to the SW. shore of the island until the NW. beacon is in line with the Kirk spire bearing N. 54° E., or do not shoal less than 10 fathoms.

River St. Croix.—Abreast Joe Point the river is nearly a mile across, and thence it runs in a N. 30° W. direction about 7 miles, where it turns abruptly to the westward, leading to Calais.

Dochet Island Shoal extends about a mile to the southward of Dochet Island. Two red-spar beacons mark this danger, the one on its southern extremity and the other off the east end of Dochet Island; both beacons should be left to the westward,

As vessels navigating the river St. Croix should always be in charge of a pilot, it is unnecessary to describe its shores in detail.

Chamcook Harbor lies on the eastern side of the promontory on which the town of St. Andrews stands, and is formed between Minister Island and the mainland. The entrance on the north side of the island, though marked by buoys, is only about 150 yards broad between the rocky ledges on either side of the entrance; and having as little as 9 feet water is only available for vessels of large draft at a certain time of tide, although when inside there is good anchorage in a limited space in 7 to 8 fathoms.

Dock.—At the head of an inlet on the north side of the harbor is a wet dock sufficiently large to admit vessels of 34 feet beam, and a vessel drawing 16 feet may pass over the sill of the dock.

Hardwood and Hospital Islands lie to the eastward of Chamcook Harbor and off the entrance to Bocabec Bay; together they occupy a mile in length nearly east and west, and within them on their northern side good anchorage may be obtained in about 6 fathoms, with the south end of the Minister Island in line with the east end of Hos-