

1882.]

LIGHT HOUSES.

23

feet above high water. Latitude N., 44d. 28m. 27s. Longitude W., 67d. 31m. 55s.

Petit Manan.—South side of Island. Fixed white, varied by white flashes. Time between flashes, two minutes. Visible 17 miles. Tower, gray granite, natural color. Latitude N. 44d. 22m. 28s. Longitude W. 67d. 5m. 51s.

A Fog Whistle giving two blasts of five seconds each per minute. Interval between blasts, 8 minutes and 42 seconds.

Little River.—On an Island at the entrance of the river. A fixed white light varied by flashes every 90 seconds, 40 feet above high water, visible 11 miles.

Richibucto Head Light.—This is a fixed white light, situated on Richibucto Head, Northumberland Strait, in the Gulf of Saint Lawrence. The light is placed at an elevation of 70 feet above high water, and should be seen in clear weather from a distance of 14 miles. The illuminating apparatus is dioptric or by lenses of the fourth order. The tower is square, about 50 feet from base to vane, painted white, and stands in lat. 46 deg. 39m. 40s. N.; long. 64 deg. 43m. 30s. W. of Greenwich.

Richibucto Harbor Range Lights.—Two range light towers, erected by the Government of Canada close to the present day beacons upon the South Beach, at the entrance to the Richibucto River, Kent County, N. B. The front building is on the outside of the bank. It is of wood, painted white, and consists of a square tower, 33 feet high to vane on lantern, with dwelling attached. Latitude N., 46d. 42m. 45s. Longitude W., 64d. 46m. 10s. The light is fixed white catoptric, elevated 40 feet above high water mark, and should be visible 12 miles. The back tower is distant W. by S. $\frac{1}{2}$ S. 300 feet from the front one. It is an open framed square tower, 43 feet high to vane on lantern, and is also painted white. The light is fixed red catoptric, elevated 44 feet above high water mark, and should be visible 12 miles. These two lights are intended to replace the day beacons, and in one lead through the channel over the bar at the mouth of the river.

Restigouche River Range Lights.—The buildings are all square towers, built of wood, painted white; they are 22 feet in height from base to top of ventilator, and shows fixed white catoptric lights.

1. *Dalhousie Range Lights, Restigouche County, New Brunswick.*—The Front Tower is placed on the public wharf. The light is elevated 24 feet above high water mark. Latitude N., 48d. 4m. 40s. Longitude W., 66d. 22m. 30s. The Back Tower is placed on Montgomery Island. The light is elevated 27 feet above high water mark.

2. *Oak Point Range Lights, County of Bonaventure, Province of Quebec.*—The Front Tower shows two lights, one east and the other west, elevated 40 feet above high water mark. Latitude N., 48d. 2m. 40s. Long. W., 66d. 36m. 30s. The Back Tower shows light elevated 45 feet above high water mark, and ranges with the Front Tower as a guide to vessels crossing the Traverse.

3. *Campbellton Range Lights, Restigouche County, New Brunswick.*—The Front Tower is placed on a pier beside the railway wharf; the light is elevated 24 feet above high water mark. Latitude N., 48d. 0m. 50s. Longitude W., 66d. 39m. 40s. The Back Tower is placed on Mr. Moffat's wharf. The light is elevated 24 feet above high water mark.

Hay Island Range Lights.—Two Range Lights have been erected upon Hay Island, Miramichi Bay, Northumberland County, N. B., to enable vessels, in seeking shelter, to clear the point of the shoal off the east end of the island. Latitude N., 47d. 14m. 10s. Longitude W., 65d. 3m. 40s. The front light is fixed white catoptric, exhibited from a lantern hoisted on a mast 15 feet high. It is elevated 23 feet above high water, and should be visible 10 miles. At the base of the mast is a small shed painted red.

The back light is distant 210 feet from the front one. It is fixed white catoptric, elevated 30 feet above high water, and should be visible 11 miles. The building is a square wooden tower, 21 feet high from base to vane, and is painted white.

Buctouche Range Lights.—Two Range Lights, erected upon Dixon's Point, on the South side of Buctouche Harbour, Kent County, N. B., to guide vessels into Buctouche Harbor. The front building is situated on the Point near the water's edge, and close to the previously existing front beacon. Latitude N., 46d. 27m. 40s. Longitude W., 64d. 38m. 50s. The

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