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Treasury Department,
U. S. COAST AND GEODETIC SURVEY.

O. H. Tittmann
Superintendent.

State: *N. Y.*

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DESCRIPTIVE REPORT.

Hydrographic Sheet No. *2758*

LOCALITY:

Hudson River,

Chelsea to Milton

Landing

1905

CHIEF OF PARTY:

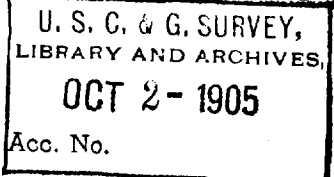
J. B. Miller

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Department of Commerce and Labor

Coast and Geodetic Survey

O. H. Tittmann, Superintendent.



Report on Hydrographic Sheet No. 8, Hudson River, 1905.

1. This sheet extends from Chelsea or Low Point, to Milton Landing, New York; and includes the small towns of Chelsea, Rockton, Wappinger's Falls, New Hamburg, Mariboro, and Milton. It consists of two reaches of the river: from Mud Hole to Danskammer Point, and from Danskammer Point northward; steamers change course at these points.

2. The mean width of the river on the sheet is 0.65 mile, and the mean depth 41 feet; the channel includes the whole width of the river generally, with a least depth of 49 feet, greatest depth of 108 feet, and ^{mid-channel} mean depth of 51 feet. The bottom is hard or rocky, and the shoreline abrupt.

3. There are several dangers to navigation, the most important of which is Diamond Reef, in mid-stream off New Hamburg wharf: having a least depth of $10\frac{1}{2}$ feet in lat. $41^{\circ} 35' 173 \text{ m.}$ (1682 m.) long. $73^{\circ} 57' 417 \text{ m.}$ (975 m.); and an area 75 meters across stream and 40 meters in length, with less

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than 18 feet. It is marked by a red and black spar, and has 72 feet of water on all sides.

There is another reef one-half mile south of Milton Landing, 275 meters off the eastern shore, with a least depth of 19 feet in lat. $41^{\circ}38'1283m(572m)$ long. $73^{\circ}56'1255m(137m)$ It is unmarked and has 50 feet of water on all sides.

4. Danskammer Point, which is dangerous for steamers passing south, is a ~~rocky~~^{rocky} hook extending 250 meters from the western shore, and is marked by a light and bell. The edge of the channel passes 30 meters off the point: there are mud flats north and south of it. At Mud Hole there are narrow flats on the western side of the channel; and south of Low Point on the eastern side: here the channel is in mid-stream and is 0.6 mile wide. South of New Hamburg there are flats occupying the entrance to Wappingers Creek.

5. The town of Wappingers Falls is reached by a dredged channel 2.0 miles long, following the creek. It is 25 meters wide and has a least depth of 8 feet at low water. It is crossed by railway and highway drawbridges at New Hamburg. A small steamer uses it daily: and a number of scows are

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engaged in carrying freight to and from the town. The channel thro the flats at the entrance is marked by buoys maintained by private parties.

6. There are two lines of steamers landing regularly in this vicinity; the Mary Powell twice daily at New Hamburg, and the Central Hudson Steamboat Co. twice daily at New Hamburg, Marlboro and Milton. Two small steamers running between Newburg and Poughkeepsie land at these points and also at Roseton and Chelsea. All these wharves have 15 feet of water. Steamers from New York to Catskill, Albany and Troy pass without landing.

7. The range of tide is 3 feet: the ebb and flood currents are equal, averaging 2 miles per hour; and turn at high and low waters.

Very respectfully,

Jas. B. Miller,

Aid, C. & G. Survey, Chief of Party.

Poughkeepsie, N. Y.

Sept. 15, 1905

To the Superintendent,
Coast and Geodetic Survey,
Washington, D. C.

Department of Commerce and Labor

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The plotting was well done and the records were kept in a satisfactory manner with the exception that bottoms were not recorded often enough.

The crossings are good.

R. L. Simons

Nov. 1, 1905.