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Diag. Cht. No. 281-1 & 282

<small>Form 504 Rev. Dec. 1933</small>	
DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR	
DESCRIPTIVE REPORT	
<i>Topographic</i> <i>Hydrographic</i>	} Sheet No. <u>458</u>
State	NEW YORK
LOCALITY	
HUDSON RIVER	
From Teller's Pt. to Peekskill Caldwell's	
#1854 1854	
CHIEF OF PARTY	
Lt. Comdr. R. Weinwright	

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Dr Eng Div

Department of Commerce and Labor
COAST AND GEODETIC SURVEY
Washington

November 1, 1905.

Mr. Andrew Braid,
Assistant in charge of Office.

Sir:

In reply to the verbal request of Mr. C.H.Deetz, of the 30th ultimo, in regard to the plane of reference used by Lieut. R.Wainwright, U.S.N., for reduction of soundings in the Hudson River, N.Y., in 1854, I have to report as follows:

Two tide gauges were established by Lieut.Wainwright in the Hudson River in 1854, the lower one being at Crugers Ferry, and the upper gauge at Peekskill.

The direct mean of the low waters observed at Peekskill was 1.9 feet on the gauge at that station, while the corresponding reading of mean low water on the Crugers Ferry was 1.0 foot; yet it appears from an examination of the soundings that the reading of 1.9 ft. was used for reducing both gauges. This makes all soundings referred to the Crugers Ferry gauge 0.9 ft. too great.

There appears to have been other mistakes made in the sounding records, a few of which were noted as follows: The soundings along line E, 131 to 141, were reduced to a plane of 2.9 feet on the Crugers Ferry gauge. In line F, 113 to 141, the corrections for tides were subtracted when they should have been added.

Respectfully yours,

W. P. Smith
Chief of Tidal Division.

*See also 16h to 17h
for further errors
C.H.D*

*VEC
Hyd. Sheet 458*

D. E. King

Department of Commerce and Labor
COAST AND GEODETIC SURVEY
Washington

REFERRED TO
DRAWING SECTION.

WWD
12-6-05

VEC

December 5, 1905.

Mr. Andrew Braid,
Assistant in charge of Office.

Sir:

In accordance with the memorandum request of the 28th ultimo, from C.H. Deetz, the reductions for tides for portions of the work of Lieutenant R. Wainwright in the Hudson River, New York, in 1854, have been examined.

The revision covered the following positions:
14 A, 24 A, 38 A, 44 A, 53 A, 8 B, 15 C, 26 C, 37 C,
and 9 K. It was found that the reducers, which are given in the sounding record, were nearly a foot too small, as explained in my letter to you of November 1, 1905. Hence when the new corrections for tide are applied, the old soundings will be about a foot less than they were.

Respectfully yours,

L. P. Shidy
Chief of Tidal Division.