



U.S. COAST SURVEY
 A.D. BACHE Sup't.
 COMPARATIVE CHART
 OF
ST. MARY'S BAR AND FERNANDINA HARBOR
 FLORIDA
 From the Surveys of Capt. J. MACKAY U.S. Top. Engrs. in 1843
 and of the Hydrographic Party under the command of
 Lieut. S. D. TRENCHARD U.S.N. Assist. C.S.
 Scale 1:50,000
 1856

NOTE.
 The soundings are expressed in fathoms, or within the dotted and broken lines, in feet, or in meters, and show the depth of mean low water, the places of reference. The atmospheric soundings only are given on the slope, they are obtained from the aneroid barometer taken in the survey, or to represent the figure of the bottom.
 Figures indicated show depth in fathoms.
 Figures without show depth in feet.

--- Shore line
 --- Curve of 1/2 fathoms
 --- Curve of 1 fathom
 --- Curve of 1 1/2 fathoms
 --- Curve of 2 fathoms
 --- Curve of 3 fathoms
 --- Curve of 4 fathoms
 --- Curve of 5 fathoms
 --- Curve of 6 fathoms
 --- Curve of 7 fathoms
 --- Curve of 8 fathoms
 --- Curve of 9 fathoms
 --- Curve of 10 fathoms
 --- Curve of 11 fathoms
 --- Curve of 12 fathoms

Latitude of Astronomical Station Fernandina 30° 42' 27" N
 Longitude of do. west from Greenwich (Mer. in arc) 82° 52' 30" W
 Longitude of do. do. do. in time 5h 12m 55s
 Variation of the Magnetic Needle 1856 9° 45' E

The Hydrographic Party consisted of Lieut. J. S. Evans, U.S. Navy, Comdr. in 1843
 The Hydrography by Capt. J. Mackay, U.S. Top. Engrs. in 1843
 and by Lieut. S. D. Trenchard, U.S.N. Assist. C.S. in 1856
 The Astronomical observations were made by Lieut. J. S. Evans, U.S. Navy, in 1843

TIDES.
 Current Establishment, New York, Mean time in Nov. 1856 11h 17m
 Rise of Highest Tide observed above the plane of reference 1.5 fms
 Fall of Lowest Tide do. do. 1.5 fms
 Fall of Mean Low Water of Spring Tides above do. 0.5 fms
 Highest Mean Low Water of Spring Tides above do. 0.5 fms
 Mean Rise and Fall of Tides 1.0 fms
 Mean do. of Spring Tides 0.5 fms
 Mean do. of Neap Tides 0.5 fms
 Mean Duration of Rise 1 hour 30 min from the middle of one
 Mean do. of Fall 1 hour 30 min from the middle of the next 07 1/2 h

Comparative Chart of St. Mary's Bar and Fernandina Harbor, circa 1856
 J. Mackay, (Washington, DC: U.S. Coast Survey, 1856)
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