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U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 1604b
Hydrographic }

State Florida

LOCALITY

Lake Worth

~~Year~~
1884

CHIEF OF PARTY

R.A. Colonna

U. S. GOVERNMENT PRINTING OFFICE: 1934

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IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

DEPARTMENT OF COMMERCE

AND REFER TO No. 34-EG

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

July 19, 1934.

To: Chief, Division of Charts.

From: Chief, Division of Tides and Currents.

Subject: Mean range of tide at Lone Cabbage I., Lake Worth, Florida.

When the survey was made for H. S. 1604-b in 1884 a short series of tides was observed at Dimick's Wharf which was located about 2/3-mile north of Lone Cabbage I., on the eastern shore of Lake Worth. Based on 36 high waters and 31 low waters from this series, a mean range of 0.3 foot was obtained. At that time fluctuations of the water were influenced more by the winds than by the tide, the inlet being too small for much of the ocean tide to flow in and out of the lake. Since that time, however, many changes, both artificial and natural, have occurred. At the north end of Lake Worth there is a dredged channel through Lake Worth Inlet to Riviera Docks with an effective depth of 13 feet. At the south end of the lake a cut 200 feet wide and 5 feet deep at low water has been cut through to the ocean. Since the channels to the ocean have been opened, it is reported that the range of tide in Lake Worth has increased considerably. Four months of automatic tide gage records, March 1 to June 29, 1929, at Riviera Dock give a mean range of 1.8 feet. No recent observations have been made in the vicinity of Lone Cabbage I., but the range of tide would undoubtedly be less than at Riviera Dock. At the same time it is reasonable to suppose that at the present time the range of tide at Lone Cabbage I. would be more than it was in 1884. A few days of staff observations at this place would determine the approximate range of the tide.

Hammann
Acting Chief, Division of Tides and Currents.