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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *N. J.*

DESCRIPTIVE REPORT.

Hyd. & Sheet No. 3255

LOCALITY:

*Five Fathom Bank Delaware
Entrance*

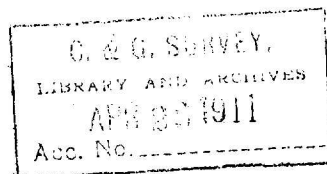
1900

CHIEF OF PARTY:

H. C. Hodgkins

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COAST AND
GEODETIC SURVEY
APR 20 1911
RECEIVED BY
Assistant in Charge.

DEPARTMENT OF COMMERCE AND LABOR.

COAST AND GEODETIC SURVEY.

O. H. TITTMANN, SUPERINTENDENT.

Hydrographic survey of
FIVE FATHOM BANK, OFF CAPE MAY, NEW JERSEY.

Coast and Geodetic Survey Steamer BACHE.

W. C. HODGKINS, Chief of Party.

Began November 14, 1910.

Ended December 20, 1910.

Scale 1:40000

Positions and Soundings platted by F. B. T. Siems.

COAST AND
GEODETIC SURVEY

APR 20 1911

REFERENCE 12

DESCRIPTIVE REPORT

to accompany Hydrographic Sheet No. 3255

Scale 1:40000.

C. & G. SURVEY, LIBRARY AND ARCHIVES APR 22 1911 Acc. No. 3255

FIVE FATHOM BANK, DELAWARE ENTRANCE.

This survey was undertaken in pursuance of instructions dated October 5, 1910.

The BACHE arrived at Delaware Breakwater on November 11, 1910, and preparations for the work were begun by establishing a tide staff on the Government pier at Cape Henlopen.

The examination of the shoal was taken up on the first favorable day and was continued until December 20.

Owing to very unfavorable weather conditions, work could be done on only seven days in that interval and generally under great disadvantages.

The air was generally too dense to permit objects on shore to be seen from the ship, the wind blew a gale from the northwest for days at a time and the strong currents made it difficult to do reliable work without objects in sight from which to locate the position of the ship. The examination made cannot, therefore, be considered exhaustive.

An auxiliary sheet used in the location of some of the floating marks accompanies the sounding sheet.

In pursuance of instructions dated December 14, 1910, work on Five Fathom Bank was closed on December 20, and on December 22 the BACHE sailed for Baltimore to outfit for a southern cruise.

Respectfully submitted,

W. C. Hodgkins

Assistant Coast and Geodetic Survey,
Commanding BACHE.

April 15, 1911

To the Superintendent,

Coast and Geodetic Survey,

Washington, D. C.

Statistics for Hydrographic Sheet No.

Scale 1:40000.

Five Fathom Bank, Off Cape May, New Jersey.

3255

Date 1910.	Letter	Volume	Positions	Soundings	Miles	Vessel.
November 14	A	1	20	102	10.9	BACHE
" 19	B	1	83	349	34.3	"
" 21	C	1	84	365	40.00	"
* " 22	D	1	146	871	88.3	"
*December 15	E	2	89	307	30.9	"
* " 17	F	2	24	90	23.0	"
* " 20	G	2	89	425	42.0	"
TOTAL	7	2	505	2509	239.4	"

The tides for the first three days were taken from observations of tides at Government Pier, Lewes, Delaware, reduced to tidal plane of mean low water determined from B.M.No. 7, (described in Tide Record.).

The unit depth of sounding as platted on sheet was taken as the fathom, and fractions in fourths of fathoms, in one instance, the least obtained is marked -16 feet on sheet surrounded by dotted lines.

The tides for the last four days, marked with stars(*), were taken from Tide Tables (U.S.Coast Survey) for Sandy Hook, N. J., 1910. The tide reducers as gotten from the tables reckoned from mean low water were inserted in the sounding records at their respective dates on first page of day's work.

Plane of reference reading on gauge	6.1 ft
Lowest tide observed " " "	* 3.8 " Dec. 15.
Highest " " " " "	11.5

*Reading on auxiliary tide gauge set to same level as former on Delaware Breakwater.

A discrepancy of an average of 2 feet was noted in the observed tides and computed tides from tables for December 15, showing an abnormal low tide for that day.

VEC
May 11, 1911.

HYDROGRAPHIC SHEET 3255.

Five Fathom Bank, off Cape May, N.J., by
Asst. W.C.Hodgkins in 1910.

TIDES.

	Delaware Breakwater Harbor Gov't Pier: Front Range L.H	
	ft.	ft.
Mean low water, or plane of reference on staff	6.1	6.1
Lowest tide observed " "	3.1	3.1
Highest " " " "	14.6	14.6
Mean range of tide	4.4	4.4

Coast and Geodetic Survey
MAY 13 1911
TIDAL DIVISION

Sept 6, 1911

Hydrographic Sheet # 3255

Positions ^{and} soundings plotted in field.

Positions badly marked ^{and} hard to locate.

Many soundings changed in records necessitating
re plotting.

Area surveyed does not seem to be well
covered.

Curves developed in comparison with sheets
#s 1533-1633-1696 see tracing.

J. W. Towner