

3693

C. & G. SURVEY,
LIBRARY AND ARCHIVES
NOV 28 1914
ACC. NO. 11-464

Diag. Cht No. 1218-R

3693

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

W. Tittmann
Superintendent.

State: *Del.*

DESCRIPTIVE REPORT.

Sy d. Sheet No. **3693**

LOCALITY:

Crow Shoal
To Deadman Shoal

1914

CHIEF OF PARTY:

J. B. Boutelle

11-464

U.S.S. ENDEAVOR, Baltimore, Md.,

November 20, 1914.

D E S C R I P T I V E R E P O R T

to Accompany Hydrographic Sheet No. 3693

DELAWARE BAY, Deadman Shoal

and Vicinity.

1 9 1 4

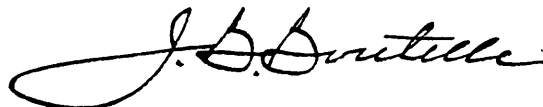
Method of Survey: The new five pile beacon light on Deadman Shoal was determined by triangulation. Stations Fan and Del were two large spar buoys placed by the Lighthouse Department with black targets and determined by sextant angles. Stations North, South, East and West were water signals with black targets determined by sextant angles. Stations Mast, Ship and Fore were the Steamer ENDEAVOR at anchor with position of foremast determined by sextant angles.

The Deadman Shoal and vicinity were sounded out with the Launch No. 44 as also the shoals to the southwest and the sounding lines carried out far enough to connect with the old work as shown by the chart; the work was continued with the ship down along the western edge of Crow Shoal to connect with the sheet of Delaware Bay Entrance. In crossing this shoal in various places with the ship while under way from place to place no appreciable ^{change} was noticed to the eastward of the area sounded.

Positions and soundings have been plotted by Mr. Spenser Danby, Deck Officer.

A tabular list of records and list of geographic positions of stations is attached to this report.

Respectfully submitted,



Assistant, U.S.C. & G.S.,
Chief of Party,
Comdg. U.S.S. ENDEAVOR.

U.S.C. & G.S. Steamer ENDEAVOR,

Baltimore, Maryland, Oct. 19, 1914.

NOV 28 1914

TABLE OF STATISTICS TO ACCOMPANY HYDROG. SHEET No. 3693

DELAWARE BAY, Deadman Shoal

1914

C. & G. SURVEY,
LIBRARY AND ARCHIVES
NOV 28 1914
Acc. No.

Date	Vol.	Letter	Pos.	Soundings	Miles	Boat
Sept. 12	1	a	10	73	1.5	Launch 44
15	1	b	143	1098	22.0	"
16	1	c	137	1097	19.5	"
16	2	c	77	643	12.5	"
16	3	a	76	534	11.0	Launch 48
29	2	d	141	998	24.3	Launch 44
30	2	e	45	389	9.2	"
30	4	A	80	602	18.5	Endeavor
Oct. 1	2	f	39	279	6.5	Launch 44
1	5	f	53	400	12.0	"
1	4	B	47	330	10.2	Endeavor
Total	-----		848 ✓	6443 ✓	147.2 ✓	

Area: 17 sq.miles.

GEOGRAPHIC

Locality DELAWARE BAY -- Deadman Shoal & Vicinity

Datum.

11-76

STATIONS.	Name used in Hydrog. Record	LATITUDE.			Seconds in Meters.	LONGITUDE.			Seconds in Meters.
		°	'	"		°	'	"	
Cape May Lighthouse 1859-96	Light	38	55	58.755	1811.7	74	57	38.565	928.9
Sand, west gable 1914	—	38	56	49.96	1540.5	74	58	11.99	288.7
Fly 1914	—	38	58	24.89	767.5	74	57	42.42	1021.3
Brandywine Shoal, new light-house of 1914 finial of	Light ^{Four} Lantern	38	59	10.406	320.8	75	06	48.630	1170.6
Fourteen Foot Bank L.H. 1896	Four	39	02	53.683	1655.4	75	10	57.077	1372.5
Egg Island L.H. 1881-96	—	39	10	43.771	1349.9	75	08	13.213	317.1
East Point L.H. 1877-96	Point	39	11	24.23	1394.9	75	01	39.45	946.7
Hotel, cupola 1914 Cape May Pt.	Cup	38	56	03.69	113.8	74	58	06.70	161.4
Del		39	05		1745	75	05		1267
Fan		39	01		1433	75	03		303
North		39	06		1660	75	01		428
East		39	05		1625	74	59		8 30
South		39	04		730	75	00		1250
West		39	05		1284	75	02		921
East		39	05		1440	74	59		1408
Fore		39	02		1814	75	00		1228

Do not write in this margin.

POSITIONS.

State

AZIMUTH.

BACK AZIMUTH.

TO STATIONS.

DISTANCE.

LOGARITHMS.

Meters.

Do not write in this margin.

GEOGRAPHIC

Locality DELAWARE BAY -- Deadman Shoal & Vicinity

Datum.

676

STATIONS.	LATITUDE. ° ' ''	Seconds in Meters.	LONGITUDE. ° ' ''	Seconds in Meters.
. Ship	39 03	123	75 01	258
R.B.H.S. Can Buoy (Buoy)	39 06	810	75 01	1265
Rio - B.W.P.S. Nun Buoy (Rio)	38 56	1730	75 01	175

Do not write in this margin.

POSITIONS.

State

AZIMUTH. ° ' ''	BACK AZIMUTH. ° ' ''	TO STATIONS.	DISTANCE. Meters.	LOGARITHMS.
------------------------	-----------------------------	--------------	----------------------	-------------

Do not write in this margin.

VEC

Feb. 27, 1915.

L. P. S.

HYDROGRAPHIC SHEET 3693.

Delaware Bay vicinity of Deadman Shoal, Delaware, by

Assistant J. B. Boutelle in 1914.

TIDES.

	Brandywine Shoal Light ft.
Mean low water, or plane of reference on staff	0.0
Lowest tide observed " "	0.1
Highest " " " "	7.2
Mean range of tide	5.1

Hyd. Sheet No. 3693

This survey was compared with the old surveys (of 1884 and 1885) and considerable change was found to have occurred. The change seems to be a general movement southward.

Lyman C. Bolinger

Plotted by Field Party

Verified & Inked by L.E.B.

Soundings in Feet.