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Diag. Ckt. No. 1209-2 & 1210-2

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SHA  
2852  
1906

Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

*O. Sturmann*  
Superintendent.

State: *Mass.*

DESCRIPTIVE REPORT.

*Hyde* Sheet No. *2852*

LOCALITY:

*Vineyard Sound*

1906

CHIEF OF PARTY:

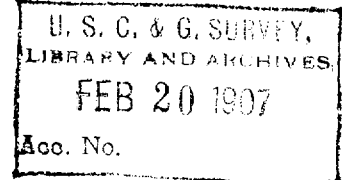
*Walter C. Tibrell*

U. S. C. & G. SURVEY,  
LIBRARY AND ARCHIVES,  
FEB 20 1907  
Doc. No.

2852

# 2852

DEPARTMENT OF COMMERCE AND LABOR



Coast and Geodetic Survey

O. H. Tittmann, Supt.

Hydrographic Sheet No. 14, Field.

Vineyard Sound, Massachusetts

Middle Ground Shoal

Assistant Walter C. Dibrell, Chief of Party.

Steamer "Explorer".

Begun: Aug. 14

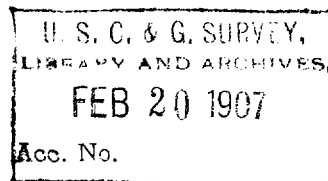
Ended: Aug. 31

1906

Scale: 1-20,000

Observers

- Walter C. Dibrell, Assistant.
- J. B. Miller, Aid.
- Eoline R. Hand, Aid.
- J. R. Hurley, Surgeon.
- B. Ackerman, Mate.
- James H. Simpson, Deck Officer 1cl.



Recorders

- Edward Treffz, Chf. Wr.
- Harold Olsen, Wr. 2cl.

Leadsman

- T. N. Janssen, Q.M. 1cl.
- A. M. Berggren, " 2cl.
- H. W. L. Zall, " "
- E. N. Larsen, " "
- T. K. Janssen, Seaman.
- John Johansen, "
- Olaf Johnson, "
- Emil Walden, "

Tidal observations at Vineyard Haven,  
Massachusetts.

Sounding ~~lines~~ plotted by *F. C. Down*  
Reviewed & Curves by *J. P. [unclear]*

Tide Observers

- W. K. Snock, Seaman.

*9-19-07*

11/1/'06.

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Acc. No.

STATISTICS

Date	Vol.	Let.	Miles	Sdgs.	Angles	Boat
1906						
August 14	1	A	<del>20.0</del>	<del>679</del>	<del>284</del>	Str. "Explorer"
" 15	1&2	B	<del>24.5</del>	<del>1616</del>	<del>372</del>	" "
" 16	2	C	<del>22.0</del>	<del>1219</del>	<del>266</del>	" "
" 17	2&3	D	<del>19.3</del>	<del>1207</del>	<del>276</del>	" "
" 18	3	E	<del>19.3</del>	<del>999</del>	<del>256</del>	" "
" 23	3	F	<del>2.0</del>	<del>101</del>	<del>42</del>	" "
" 25	3&4	G	<del>19.2</del>	<del>1017</del>	<del>268</del>	" "
" 28	4	H	<del>23.7</del>	<del>861</del>	<del>330</del>	" "
Totals	4	8	150.0	7799	2084	" "
August 15	1	a	<del>13.5</del>	<del>556</del>	<del>294</del>	Steam launch
" 16	1	b	<del>5.5</del>	<del>225</del>	<del>112</del>	" "
" 17	1	c	<del>11.0</del>	<del>470</del>	<del>222</del>	Gasoline launch
" 18	1&2	d	<del>12.5</del>	<del>453</del>	<del>182</del>	" "
" 23	2	e	<del>10.5</del>	<del>535</del>	<del>238</del>	Steam Launch
" 25	2	f	<del>12.5</del>	<del>820</del>	<del>264</del>	" "
" 28	2&3	g	<del>20.0</del>	<del>964</del>	<del>432</del>	" "
" 29	3	h	<del>16.0</del>	<del>721</del>	<del>394</del>	" "
" 30	3&4	i	<del>12.0</del>	<del>480</del>	<del>234</del>	" "
" 31	4	k	<del>10.0</del>	<del>517</del>	<del>200</del>	" "
" 25	5	f	Angles			
Totals	5	10	133.5	5741	2572	" "
Grand totals	9	18	273.5	13540	4666	

Square miles: 5.

The soundings are expressed in feet and refer to Meander Water  
 The color of the sand is shown in Green  
 Red  
 Blue  
 Yellow

V.E.C.  
Nov. 30, 1907.

HYDROGRAPHIC SHEET NO. 2852.

Vineyard Sound, Massachusetts, Middle Ground and  
Lucas Shoal by Assistant W.C. Dibrell in 1906.

TIDES

	Vineyard Haven ft.
Mean low water, or plane of reference on staff	4.2
Lowest tide observed " "	3.2
Highest " " " "	7.1
Mean rise and fall of tides	1.7

Coast and Geodetic Survey  
NOV 30 1907  
TIDAL DIVISION.

*Applied 12/17-07 by A. E. G.*

TITLE

2852

Department of Commerce and Labor

Coast and Geodetic Survey,

O.H. Tittmann, Supt.

U. S. C. & G. SURVEY,  
LIBRARY AND ARCHIVES,  
FEB 16 1907  
Acc. No.

HYDROGRAPHIC SHEET # 14.

Vineyard Sound, Massachusetts.

*Middle Ground and Lucas Shoal*

Begun August 14, 1906.

Ended August 31, 1906.

STEAMER EXPLORER.

Walter C. Dibrell, Ass't., C. & G. S., Commanding.

Scale, 1--20 000.

Sheet 2852 Middle Ground Shoal Mass

The work on this sheet is well done and the ground is well covered.

The Eastern end of the shoal agrees in position very nearly with same shoal on sheet 1832 Survey of 1887, but is deeper by two feet. North from Norton Point the shoal has moved to the Southward.

N.W. from Norton Point the shoal has shifted to the Northward, decreased in depth and increased in width.

Lucas shoal has changed a very little in position or depth.

May 10 1907

J. C. Down

# 2852

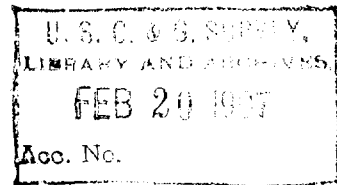
10/23/'06.

Descriptive Report

to Accompany Hydrographic Sheet No. (Field No. 14),

Vineyard Sound, Mass.

Scale: 1-20,000



This sheet shows the re-survey of what is known as the "Middle Ground" in Vineyard Sound, Mass. The area developed is 9 miles (nautical) long and it has an average breadth of about 1000 meters. Where the water was not too shoal the hydrography was done with the ship, using two leadsmen at the same time. A little more than half the shoal was covered in this manner with the ship; the remainder was developed with the launch. The launch lines are transverse to the length of the shoal, but the ship lines necessarily were run in the direction of its length. The survey is quite close, but owing to strong and variable tidal currents and to tide rips, some of the lines are very crooked.

The positions depend for the most part upon points previously determined by triangulation. Signals on both sides of the Sound were used, but, the greater part of the work depends upon those on Marthas Vineyard. Very little signal building was necessary for the reason that many of the old signals were still standing. A few new hydrographic stations were established and the signals cut in by means of sextant angles.



These sextant angles will be found recorded in the sounding books.

The position of the "Middle Ground" has not changed very greatly, but the changes in its configuration amply justify the re-survey. In some places there is less water than shown on the chart, and in others more. The most important change has taken place in the vicinity of buoy c. 25-1/2. The shoal has built on beyond this buoy in a southwesterly direction, and its shape in this vicinity is quite different even from that shown on the latest corrected charts. The most important changes found within the area investigated are noted in my Special Report of September 1, 1906.

The tidal reductions for this work depend upon readings made in Vineyard Haven Harbor. The plane of reference is mean low water derived from the tidal observations made by the party of C.P. Perkins, U.S.N., Assistant, C. & G. Survey, in 1887.

Respectfully submitted:



Assistant, C. & G. Survey,  
Chief of Party.

St 1210 Reconstr. 11-10-01. Appld thru chrt 249 71Q