4006

Department of Commerce and Labor

COAST AND GEODETIC SURVEY

E. Lester Jones

Superintendent.

State: Rhode Island

DESCRIPTIVE REPORT.

Wire Drag
Hydrographic *Sheet No.* 4006

LOCALITY:

Narragansett Bay & Approaches

Scale 1:20,000

191 7

CHIEF OF PARTY:

R. P. Strough

11—4645

ADDRESS
U. S. COAST AND GEODETIC SURVEY
WASHINGTON, D. C.

REFER TO NO.

5-EMK

CHARTS (H)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

May 25, 1918.

LIBRARY
Place with descriptive report
of hydrographic sheet No 4006
Drawing Section.

Division of Hydrography and Topography:

Division of Charts:

Tidal reductions have been approved in
3 volumes of Wire Drag records for

HYDROGRAPHIC SHEET 4006

Approaches to Narragansett Bay, Rhode Island
R. P. Strough in 1917.

Plane of reference is
Mean low water, reading

0.70 ft. on staff at Sakonnet Harbor,
Rhode Island.

L. P. Shidy

Acting Chief, Section of
Tides and Currents.

DESCRIPTIVE REPORT FOR HYDROGRAPHIC SHEET 4006.

Wire-Drag Field Sheet # 1.

The work shown on this sheet connects on the south with that shown on Field Sheet # 2; on the west the Drag Work extends to within about 1½ miles of the western shore of Narragansett Bay. On the north the limit is about 1½ miles from the northern shore line of the Bay.

The eastern limit extends to longitude 71° 09' W.

No attempt was made to drag to a greater depth than 85 feet. Where it was not possible to drag to this depth, the drag was set at from 10 to 20 feet less than the depths shown on the chart.

A split occurs 3 1/3 miles S W 3/4 W (true) from Sakonnet Light house. This split was due to faulty plotting on the boat sheet, as the latter sheet shows this spot as being covered.

A large split occurs about 2 1/4 miles south (true) of signal Vis. This was not covered due to the fact that it was necessary to do work in other territory.

A split occurs 3 7/8 miles SSW 1/4 W (true) from Lippet's House Tower. This would also have been covered had we not been ordered to do other work.

The drag work on this sheet is about 3/4 finished and would have been completed but for the fact that the party was ordered to discontinue work in this region and proceed to New London, Conn., for work in the neighborhood of the Race.

The following shoal spots were located:

A 69 ft. spot 4.6 miles SSE ½ S (true) from Sakonnet Lighthouse, where the chart shows 78 feet.

A 53 ft. spot, marking also the location of a wreck, 2 miles SSW 3/4 S from Sakonnet Lighthouse. The chart shows 66 feet in this vicinity.

A 58 ft. spot, 5 miles SSE from Sakonnet Lighthouse, where the chart shows 72 feet.

A 44 ft. spot, 2.4 miles ESE from Sakonnet Lighthouse, where the chart shows 57 feet.

A 27½ ft. spot, 15/16 mile S x E from Sakonnet Lighthouse. The chart shows 34 feet here.

A 31 ft. shoal 1 1/16 miles SE x S 1/4 S from Sakonnet Light house, where the chart shows 45 feet.

HYDROGRAPHIC SHEET 4006

A 31½ foot shoal 1 mile S x 3/4 E from Sakonnet Lighthouse, where the chart shows 48 feet.

A 60 foot spot 3 1/4 miles SW x S from Sakonnet Lighthouse. The chart shows 78 feet in this vicinity.

A 56 foot shoal 3 miles SE x S 1/4 S from Sakonnet Lighthouse, where the chart shows 72 feet.

A wreck was located 3½ miles S x W from Sakonnet Lighthouse. Soundings showed 61 feet in this vicinity; but a drag hooked at 55 feet was unable to clear the wreck. With the drag set at 49 feet the wreck was passed over.

A 81 foot spot 3 1/8 miles SW x S 1/4 S from Lippets House Tower. The chart shows 96 feet here.

A 63 foot sounding 1.7 miles SW 3/4 S from Lippets House Tower, where the chart shows 84 feet.

A 58 foot shoal 1 3/4 miles SW x S 1/4 S from Lippets House Tower, where the chart shows 90 feet.

A 74 foot spot 2 1/4 miles SW x S 1/4 S from Lippets House Tower, where the chart shows 90 feet.

A 73 foot spot 3 miles SSW 3/4 S from Cupola T. M. Davis House. The chart shows 102 feet here.

A 25 foot spot 3/4 miles SSW ½ S from T. M. Davis's House Cupola, where the chart shows 33 feet.

A 63 foot spot 2 miles south of T. M. Davis House, where the chart shows 87 feet.

A 76 foot spot 2.2 miles S x 3/4 E from Beaver Tail Lighthouse, where the chart shows 96 feet.

A 73 foot spot 2.2 miles south of Whale Rock Lighthouse, where the chart shows 90 feet.

The control of the Survey was obtained from Signals which in most cases had been located by previous triangulation. Signals Car, Hit & Soc were located by triangulation done by this party.

HYDROGRAPHIC SHEET 4006.

The tidal reducers were obtained from readings on a tide staff erected on the dock at Sakonnet Harbor.

No attempt to study the currents in this vicinity was made due to lack of time to spend from Wire Drag work.

Respectfully submitted,

(Signed) H. W. Hemple

Deck Officer, U.S.C. & G. S.

Approved

Jr. H. & G. Engineer,
Chief of Party.

TABLE OF STATISTICS WIRE DRAG HYDROGRAPHIC SHEET 4006.

Day	Date	Length of Drag	Miles Statute	Positions	Soundings
	1917	Feet			
A	May 3	5000	1.0	10	2
B	May 4	5000	3.0	20	1
C	May 7	6000	1.5	18	2
D	May 8	5000	3.6	28	0
E	May 12	5000	3.1	22	2
F	May 16	5000	2.2	21	0
G	May 18	6000	2.3	19	2
H	May 19	5000	3.3	34	2
J	June 15	6000	5.0	36	1
K	June 19	5000	3.1	25	3
L	June 20	5000	4.6	31	0
M	June 21	6000	8.5	57	0
N	June 23	5000	1.3	11	0
O	July 3	5000	1.0	5	0
P	July 6	5000	3.5	34	0
Q	July 7	5000	5.0	37	0
R	July 13	5000	3.5	35	1
S	July 25	2800	1.5	11	0
T	July 26	4000	7.5	52	3
U	July 31	6000	2.6	31	1
V	Aug. 4	5000	3.6	35	0
W	Aug. 7	5000	7.4	50	4
X	Aug. 8	5000	2.9	26	9
Y	Aug. 9	5000	6.5	39	1
Z	Aug. 13	5000	5.7	37	1
A'	Aug. 20	4500	3.0	24	0
B'	Aug. 23	4000	2.4	22	4
C'	Sept.10	6000	2.0	24	0
D'	Sept.13	9000	3.0	16	0
E'	Sept.15	1800	0.8	4	2
G'	Sept.29	4000	3.7	37	2
H'	Oct. 8	6000	4.5	39	2
J'	Oct. 13	5000	2.0	17	0
K'	Nov. 3	5000	2.1	18	0
L'	Nov. 5	4000	3.5	34	5
M'	Nov. 8	4000	3.5	25	1
N'	Nov. 9	3000	1.0	11	2
O'	Nov. 10	5000	2.0	22	1
		Total	126.7	1017	54

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Form 583

PROGRESS CHART

SHOWING CONDITION OF RECORDS OF

Hydrographic Sheet No. 4006 Field No. 1

Wire drag survey of Narragansett Bay Entrance

Scale 1:20,000 *Date of Survey* 1917

Surveyed by R. P. Strough

Day	DATE	Signaled angles compared	Distances entered	Distances checked	Length of upright entered	Length of upright checked	Correction entered	Correction checked	Drag depth entered	Drag depth checked	Reducers entered	Reducers checked	Effective depth entered	Effective depth checked	Effective depth diagram entered	Effective depth diagram checked	Positions plotted	Dragged strip traced	Tracing checked	Area subdivided	Subdivision checked	Transferred and inked	Compared with chart
A	May 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
B	" 4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
C	" 7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
D	" 8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
E	" 12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
F	" 16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
G	" 18	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
H	" 19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
J	Jun 15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
K	" 19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
L	" 20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
M	" 21	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
N	" 23	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
O	Jul. 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
P	" 6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
Q	" 7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
R	" 13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
S	" 25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
T	" 26	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
U	" 31	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
[illegible]	Aug 4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
W	" 7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
X	" 8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
Y	" 9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
Z	" 13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			

This Progress Chart, checked to show the condition of the office work, should be forwarded to the office with the records.

11—6061

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Form 583

PROGRESS CHART

SHOWING CONDITION OF RECORDS OF

Hydrographic Sheet No. 4006 Field No. 1

Wire drag survey of Narragansett Bay Entrance

Scale 1:20,000 *Date of Survey* 1917

Surveyed by R. P. Strough

Day	DATE	Signaled angles compared	Distances entered	Distances checked	Length of upright entered	Length of upright checked	Correction entered	Correction checked	Drag depth entered	Drag depth checked	Reducers entered	Reducers checked	Effective depth entered	Effective depth checked	Effective depth diagram entered	Effective depth diagram checked	Positions plotted	Dragged strip traced	Tracing checked	Area subdivided	Subdivision checked	Transferred and inked	Compared with chart
A'	Aug 20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
B'	23	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
C'	Sept 10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
D'	13	✓	Long Drag		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
E'	15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
G'	29	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
H'	Oct 8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
J'	13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
K'	Nov 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
L'	5	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓		✓	✓		✓			
M'	8	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓		✓	✓		✓			
N'	9	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			
O'	10	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			

This Progress Chart, checked to show the condition of the office work, should be forwarded to the office with the records.

11—6001

Department of Commerce

Coast & Geodetic Survey

E. Lester Jones, Superintendent.

Rhode Island

Narragansett Bay & approaches

Description to accompany

Wire Drag Sheet Hyd. 4006

Scale 1:20,000

1917

Wire Drag Party #2

R. P. Strough,
Jr. H. & G. Engineer,
Chief of Party.

(41)

Description to accompany
Wire Drag Sheet — 4006 —
Field Sheet #1

The work shown on this sheet connects on the south with that shown on Field sheet #2; on the west the drag work extends to within about 1½ miles of the Western shore of Narragansett Bay. On the north the limit is about 1½ miles from the northern shore-line of the Bay. The eastern limit extends to longitude 71°-09 W.

No attempt was made to drag to a greater depth than 85 feet. Where it was not possible to drag to this depth, the drag was set at from 10 to 20 feet less than the depths shown on the chart.

A split occurs 3⅓ miles SW¾W (true) from Sakonnet Light House. This split was due to faulty plotting on the boat sheet, as the latter sheet shows this spot as being covered.

A large split occurs about 2¼ miles south (true) of signal Tris. This was not covered due to the fact that it was necessary to do work in other territory.

A split occurs 3⅞ miles SSW¼W (true) from Lipitt's House Tower. This would also have been covered had we not been ordered to do other work.

The drag work on this sheet is about 3/4 finished and would have been completed but for the fact that the party was ordered to discontinue work in this region and proceed to New London, Conn. for work in the neighborhood of the Race.

The following shoal spots were located:

a 69 ft spot 4.6 miles SSE ½ S (true) from Sakonnet Light House, where the chart shows 78 feet.

a 53 ft spot, marking also the location of a wreck, 2 miles SSW 3/4 S from Sakonnet Light House. The chart shows 66 feet in this vicinity.

a 58 foot spot 5 miles SSE from Sakonnet Light House, where the chart shows 72 feet.

a 44 foot spot 2.4 miles ESE from Sakonnet Light House, where the chart shows 57 ft.

a 27½ foot spot 15/16 miles SxE from Sakonnet Light House. The chart shows 34 feet here.

a 31 foot shoal 1 1/16 miles SE x S 1/4 S from Sakonnet Light House, where the chart shows 45 feet.

a 31½ foot shoal 1 mile SxE 3/4 E from Sakonnet Light House, where the chart shows 48 feet.

a 60 foot spot 3 1/4 miles SWxS from Sakonnet Light House. The chart shows 78 feet in this vicinity.

a 56 foot shoal 3 miles SExS 1/4 S from Sakonnet Light House, where the chart shows 72 feet.

A wreck was located 3½ miles SxW from Sakonnet Light House. Soundings showed 61 feet in this vicinity, but a drag hooked at 55 feet was made to clear the wreck. With the drag set at 49 feet the wreck was passed over.

an 81 foot spot 3 1/8 miles SW x S 1/4 S from Lippets House Tower. The chart shows 96 feet here.
a 63 foot sounding 1.7 miles SW 3/4 S from Lippets House Tower, where the chart shows 84 feet.
a 58 foot shoal 1 3/4 miles SW x S 1/4 S from Lippets House Tower, where the chart shows 90 ft.
a 74 foot spot 2 1/4 miles SW x S 1/4 S from Lippets House Tower where the chart shows 90 feet.
a 73 foot spot 3 miles SSW 3/4 S from cupola J. M. Davis house. The chart shows 102 feet here.
a 25 foot spot 3/4 miles SSW 1/2 S from J M Davis' House cupola, where the chart shows 33 feet.
a 63 foot spot 2 miles South of J M Davis House where the chart shows 87 feet.
a 76 foot spot 2.2 miles S x 3/4 E from Beaver Tail Light House, where the chart shows 96 feet.
a 73 foot spot 2.2 miles south of Whale Rock Light House where the chart shows 90 feet.

The control of the survey was obtained from signals which in most cases had been located by previous triangulation. Signals Car, Hil & Doc were located by triangulation, done by this party.

The tide reducers were obtained from readings on a tide staff erected on the dock at Sakonnet Harbor.

No attempt to study the currents in this vicinity was made due to lack of time to spend from drag work.

(over)

Respectfully submitted,

H. W. Hemple

Desk Officer

U. S. C. & G. S.

Approved:

_____

J. H. & G. Engineer

Chief of Party.

Table of Statistics Wire Drag Sheet _ 4006

Day	Date	Length of drag	Mile Statute	Positions	Soundings
A	May 3	5000 ft.	1.0	10	2
B	May 4	5000	3.0	20	1
C	May 7	6000	1.5	18	2
D	May 8	5000	3.6	28	0
E	May 12	5000	3.1	22	2
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G	May 18	6000	2.3	19	2
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M	June 21	6000	8.5	57	0
N	June 23	5000	1.3	11	0
O	July 3	5000	1.0	5	0
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T	July 26	4000	7.5	52	3
U	July 31	6000	2.6	31	1
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W	Aug. 7	5000	7.4	50	4
X	Aug. 8	5000	2.9	26	9
Y	Aug. 9	5000	6.5	39	1
Z	Aug. 13	5000	5.7	37	1
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C'	Sept. 10	6000	2.0	24	0
D'	Sept. 13	9000	3.0	16	0
E'	Sept. 15	1800	0.8	4	2
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K'	Nov. 3	5000	2.1	18	0
L'	Nov. 5	4000	3.5	34	5
M'	Nov. 8	4000	3.5	25	1
N'	Nov. 9	3000	1.0	11	2
O'	Nov. 10	5000	2.0	22	1
		Total	126.7	1017	54

LIBRARY
Place with descriptive report
of hydrographic sheet No. 4006

ADDRESS
U. S. COAST AND GEODETIC SURVEY
WASHINGTON, D. C.

REFER TO No.

5-EMK

CHARTS (H)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

Drawing Section.

May 23, 1918.

Division of Hydrography and Topography:

Division of Charts:

Tidal reductions have been approved in
1 volume of Sounding Records for

HYDROGRAPHIC SHEET 4006

Approaches to Narragansett Bay, Rhode Island
R. P. Strough in 1917.

Plane of reference is
Mean low water, reading

0.70 ft. on staff at Sakonnet Harbor,
Rhode Island.

L. P. Shidy
Acting Chief, Section of
Tides and Currents.