

WIRE DRAG 6860

WIRE DRAG
6860

<small>Form 504</small> U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT	
Type of Survey	Hydrographic
Field No.	WD 4001
Office No.	H-6860
LOCALITY	
State	New York
General locality	Block Island Sound
Locality	East of Gardiners Island Western Part
<u>194 3</u>	
CHIEF OF PARTY L. C. Johnson	
LIBRARY & ARCHIVES	
DATE	

Department of Commerce
U. S. Coast & Geodetic Survey

HYDROGRAPHIC TITLE SHEET

H6860 WIRE DRAG

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when this sheet is forwarded to the Office.

Field No. WD 4001

Register No. H-6860 (W.D.)

State - - - - - New York

General Locality - - - - Block Island Sound

Locality - - - - - ~~Western Part~~ East of Gardiners Island

Scale - - - - - 1/40,000 Date of Survey - - May - June, 1943

Vessel - - - - - Wainwright & Hilgard

Chief of Party - - - - L. C. Johnson

Surveyed by - - - - - L. C. Johnson

Protracted by - - - - - Alfred Kaupa

Soundings penciled by - - - - - Alfred Kaupa

Soundings in - - - feet

Plane of reference - - - - - mean low water

Subdivisions of wire drag areas by - - - -

Inked by - - - - -

Verified by - - - - -

Instructions dated - - - - March 15, 1943

Remarks - - - - - This sheet was processed at the Norfolk Processing Office.

XWW 11/1/41

DESCRIPTIVE REPORT

to accompany

WIRE DRAG SHEET FIELD NO. 4001

H-6860 (1943) W. D.

BLOCK ISLAND SOUND
East of Gardiners Island

SCALE 1/40,000

PROJECT CS-304

1943

L. C. JOHNSON, CHIEF OF PARTY

Launches WAINWRIGHT & HILGARD

INSTRUCTIONS:

Work was accomplished under original instructions dated March 15, 1943. ✓

SURVEY METHODS AND EQUIPMENT:

Standard dual control wire drag methods were used with the Launches WAINWRIGHT and HILGARD as towing vessels. Lift tests were made using a white lead and lubricating oil mixture on a 3/8" iron pipe suspended from a float by a graduated stranded wire. Tender No. 101 was used as a tender. ✓

Wire drag gear furnished by Washington office was used. The 3/8 inch ground wire was satisfactory. The 45 pound intermediate weights proved to be too heavy for the intermediate buoys which were supplied and 36-pound weights were substituted. The intermediate buoys are evidently built of such heavy stock as to not provide sufficient buoyancy for the heavier weight.

Buoys towed under in several cases. ✓

COMPLETION OF WORK INSTRUCTED:

(a) The wreck charted in Lat. 41°04.6', Long. 71°57.9' was dragged to 29.0 feet. Wreck from H.O. N. to M. 35 of 1935. Was removed from chart before this survey was made on authority of Chart Letter 67 of 1943.

AWOLs #1715

(b) The charted 50-foot wreckage in Lat. 41°07.15', Long. 71°58.3' was dragged to 57.0 feet. 50 is from H-3907 (1916) W.D. Chart [57]

AWOLs #1714

(c) The 45-foot sounding in Lat. 41°09.3', Long. 72°06.2' was dragged to 45.5 feet. 45 is from H-1529a (1882). Retain 45 and add 41 ft. grounding, cleared at 35.5 ft., 0.6 mi. east. ✓

14H

(d) The 17-foot charted depth on Constellation Rock was not dragged. ✓

(e) The 40-foot sounding in Lat. 41°09.4', Long. 72°05' was dragged to 35.5 feet. A drag with an effective depth of 35.5 feet hung up for a brief interval and then slipped off. ✓

7912
40 is from H-4042 (1918) W.D. Add 35 ft. grounding. Also cleared at 35 ft. ✓

(f) The 46-foot sounding in Lat. 41°05.9', Long. 72°0.10' was dragged to 43 feet. 46 is from H-3907 (1916) W.D. Chart 43 ft. grounding (Also cleared at 43 ft) ✓

4105 52.2
720105.7

(g) The 14 foot spot on Cerberus Shoal (Lat. 41°10.4', Long. ~~71°57.5'~~ 71°57.5') was dragged to 11½ feet. A 12½ foot sounding and a 14 foot sounding were found 400 meters apart. The 12½ foot spot is about 200 meters south of the charted 14 foot sounding. ^{Charted 14 is from SW} H-1529a (1882).

Retain 14.
Chart 12 and 14.

(h) Valiant Rock was not dragged. ✓

(i) & (j) The Race was not dragged due to the large numbers of lobster pots. ✓

DISCREPENCIES:

On position 3E a drag of 42½ feet ~~was~~ effective depth hung on the shoal listed under (f) above but a large lift had been applied and therefore the shoal should be considered as having been dragged to 43 feet.

Effective depth accepted as 43 ft.

A 15½ foot drag on F day slipped over a 12½ foot sounding on Cerberus Shoal. The rock probably slopes gradually in certain directions. At position 7J day the intermediate buoys sank out of sight after passing this rock. This is believed to have been due to current as the previously located shoals had been passed.

Equipment?
See page 1. ✓

TIDES:

Tides ^{were} used from the portable tide gage at Little Gull Island operated by the personnel of the U.S.C. & G.S.M.V. COWIE. ✓

STATISTICS:

Statute miles of wire drag - - - - - 23.4
Area of wire drag (sq. stat. mi.) - - - - - 4.7
Number of soundings - - - - - 9 ✓

Respectfully submitted,
Clarence R. Reed
Clarence R. Reed
H. & G. Engineer
U.S.C. & G. Survey

Approved and forwarded


L. C. Johnson
L. C. Johnson
Officer in Charge
Launch WAINWRIGHT

A D D E N D U M

WIRE DRAG SURVEY H-6860

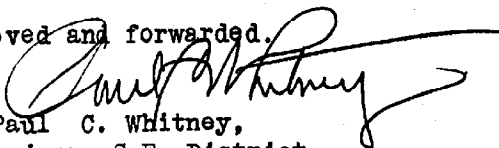
This sheet was processed at the Norfolk Processing Office. ✓

Respectfully submitted,


Isadore M. Zeskind,
Associate Cartographic Engineer

January 12, 1944.
Norfolk Processing Office

Approved and forwarded.


Paul C. Whitney,
Supervisor, S.E. District.

Surveys Section (Chart Division)

H6860 WIRE DRAG

HYDROGRAPHIC SURVEY NO.

Records accompanying survey:

Boat sheets ¹....; sounding vols. ⁵....; wire drag vols. ³....;
bomb vols.; graphic recorder rolls;
special reports, etc. ² sheets Hourly Heights, 1 sheet Tide Graphs.
.....

The following statistics will be submitted with the cartog-
rapher's report on the sheet:

Number of positions on sheet ..126
Number of positions checked ...10.
Number of positions revised0.
Number of soundings recorded ...9.
Number of soundings revised
(refers to depth only) ...0.
Number of soundings erroneously
spaced
Number of signals erroneously
plotted or transferred
Topographic details Time
Junctions Time
Verification of soundings from
graphic record Time

Verification by John A. McCormick Total time 13 hrs. Date 4/21/44.

Review by J.A.M.C. Time 7 hrs. Date 4/22/44.

Remarks

Decisions

1		U.S.G.B
2		
3		
4	Title only	U.S.G.B
5		
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13	Location of tide staff.	
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27		
M 234		

GEOGRAPHIC NAMES

Survey No. **H6860**

WIRE DRAG

Name on Survey	Source of Name										
	A	B	C	D	E	F	G	H	K		
<u>New York</u>											1
<u>Block Island Sound</u>											2
Western Part											3
<u>Gardiners Island</u>											4
											5
											6
											7
											8
											9
											10
											11
											12
<u>Little Gull I</u>											13
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											27
											M 234

Names underlined in red approved
by L. Heck on 4/28/44

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

WIRE DRAG

No. H **H6860**
No. T

received January 17, 1944
registered January 20, 1944
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
✓ 25	<i>Pg 1</i>	<i>R. Comdr. Linn</i>	
26			
30			
40			
62			
63			
82			
✓ 83	<i>Pg 1, 2</i>	<i>W.F. Comdr. Finnegan</i>	
88		<i>W.F.</i>	
90			

RETURN TO

82	Comdr. R. W. Knox
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R.A.C.
HRC

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in
3 volumes of sounding ^{and wire drag} records for

HYDROGRAPHIC SHEET 6860

Locality Block Island Sound, Western Part.

Chief of Party: L. C. Johnson in 1943
Plane of reference is mean low water, reading
1.4ft. on tide staff at Little Gull Island
8.5ft. below B. M. 2

Height of mean high water above plane of reference is
2.2 feet.

Condition of records satisfactory except as noted below:

C. K. Green
Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6860 W.D.

Field No. 4001

New York; Block Island Sound; East of Gardiners Island
Surveyed May - June 1943, Scale 1:40,000
Project C. S. 304

Wire Drag

Dual Control

Chief of Party - L. C. Johnson
Surveyed by - L. C. Johnson
Protracted and inked by - A. Kaupa
Verified and reviewed by - J. A. McCormick
Inspected by - H. R. Edmonston, April 22, 1944

The survey consists of several detached investigations of critical soundings on chart 1211. Results are summarized in the descriptive report.

The lift was excessive on several of the strips. In Lat. $41^{\circ}07'$, Long. $71^{\circ}58'$, strip 1B-7B had a lift of 11 feet; others did not exceed 5 feet. Currents in the areas surveyed will approach 2 knots according to the tables. In the Race, 1943 current observations gave values of as high as 5 knots for spring tides. The sounding volumes frequently mentioned strong currents.

The descriptive report states that 45-pound weights were too heavy for the intermediate buoys. Substitution of lighter weights may have contributed to the lift. It is also noted that in several cases the intermediate buoys towed under, possibly because of insufficient buoyancy.

All of the groundings and soundings obtained are slightly questionable as to depth and position. Soundings of 12 and 14 feet, 400 meters apart on Cerberus Shoal (Lat. $41^{\circ}10.4'$, Long. $71^{\circ}57.5'$) were obtained with the 808 Recorder (fathogram not available) and the positions are only approximate. Hand lead soundings were 32 to 37 feet. H-1529a (1882) shows a single 14-foot pinnacle 200 meters from the nearest of the 1943 shoal depths. The old survey is fairly well developed.


Three 1916-19 wire drag surveys come together in this area. There are large gaps within them and between them. If

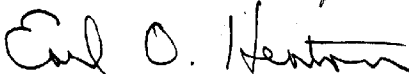
further drag work is to be done in the area, it is recommended that the gaps be systematically covered and that the strips dragged on the present survey be redragged.


I believe further work could be omitted on item (a) page 1 of descriptive report. EOH

Examined and approved:


Chief, Surveys Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of
Coastal Surveys

Applied to Ch. 298, 9/23/40 J. P. S.
Applied to Ch. 1108 July 26, 1944 K. R.
" " " 1211 July 27, 1944 J. P. S.