

Original
8337
WIRE DRAG

Diag. Cht. No. 1202-1.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey **WIRE DRAG**
Field No. **WA-HI-1156-WD** Office No. **H-8337**

LOCALITY

State **MAINE**
General locality **COAST OF MAINE**
Locality **MT. DESERT ISLAND**

1956

CHIEF OF PARTY

John C. Ellerbe

LIBRARY & ARCHIVES

DATE **MAR 8 1962**

8337
WIRE DRAG

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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

REGISTER No. H-8337

Field No. WA-HI 1156-WD

State MAINE

General locality COAST OF MAINE - MT. DESERT ISLAND

Locality MT. DESERT ISLAND

Scale 1:10,000 Date of survey 27 April - 1 May 1956

Instructions dated 9 October 1956

Vessel WAINWRIGHT & HILGARD

Chief of party John C. Ellerbe

Surveyed by D.A. Jones WAINWRIGHT & HILGARD J.E. Guth

Soundings taken by ~~fathometer, geographic recorder, hand lead~~ wire drag

Fathograms scaled by Arnold K. Pedersen

Fathograms checked by Jack E. Guth

Protracted by W.W. Feazel (Norfolk Processing Office)

Drag strips inked

~~Soundings provided by~~ by W.W. Feazel

Soundings in ~~XXXXXX~~ feet at MLW ~~MLW~~

REMARKS:

.....
.....
.....
.....
.....

B.L.
1956

DESCRIPTIVE REPORT

WIRE DRAG FIELD SHEET NO. WA-HI 1156-WD

PROJECT 15010

COAST OF MAINE

SCALE - 1:10,000

A. PROJECT

Supplemental Instructions dated 9 October 1956.

B. SURVEY LIMITS AND DATES

Sheet covers Latitude $44^{\circ} 14.0'$ to $44^{\circ} 22.0'$ and Longitude $68^{\circ} 13.0'$. Field work began on 27 April 1956 and was completed on 1 May 1956.

C. VESSELS AND EQUIPMENT

The Ships WAINWRIGHT and HILGARD acted as Guide Launch and End Launch respectively and a hired Maine Lobster boat was used as the tender. Standard wire drag equipment was used throughout. The Ship WAINWRIGHT was equipped with fathometer No. 58S, the HILGARD with an unnumbered fathometer, and the hired launch with fathometer No. 139SP.

D. TIDE STATIONS

Hourly heights for the reduction of soundings and drag depths were obtained from a portable automatic tide gage at Southwest Harbor, Maine.

Reducers entered on the Boat Sheet were taken from the predicted tide table.

See Attachment No. 2

E. SMOOTH SHEET

To be prepared by the Norfolk Processing Office.

F. CONTROL STATIONS

All control stations were located by conventional methods.

See Attachment No. 3

G. SOUNDINGS AND DRAG TESTS

Soundings were obtained using the 808 fathometer. Tests of the drag followed the method outlined in the manual.

H. CONTROL OF WIRE DRAG

Standard dual control methods were used. Cuts to the end buoy and then to the opposite vessel were taken immediately after the fix. The cuts were called plus (+) if the object was to the right of the signal and minus (-) if to the left. Length of tow line was the distance from the center of the wheel-house to the end buoy in each case.

J. ADEQUACY OF THE SURVEY

This survey is considered adequate and no further field work is considered necessary.

K. COMPARISON WITH CHART

In general the wire drag was in good agreement with Chart 306. See Attachment No. 4 for tabulation of hangs and hydrographic development.

L. AIDS TO NAVIGATION

See Attachment No. 5

M. FATHOMETER CORRECTIONS

Fathometer No. 139SP was used on the hired launch throughout this sheet. A constant was assumed for the bar check correction since no bar check was taken before 14 June 1956.

See Attachment No. 6

N. TIME

Standard 60th Meridian time was used throughout the season.

P. LIST OF ATTACHMENTS

1. Statistics
2. Tide Note
3. List of Signals
4. Hang Data
5. Aids to Navigation
6. Fathometer Corrections

Submitted:

Jack E. Guth
Jack E. Guth
Lieutenant, C&GS

Approved and Forwarded:

John C. Ellerbe
John C. Ellerbe, CDR, C&GS
Chief of Party

STATISTICS

<u>Volume Number</u>	<u>Day- Letter</u>	<u>Date</u>	<u>Number of Positions</u>	<u>Statute Miles</u>	<u>Nautical Sq. Mi.</u>
1	A	27 April '56	9 ⁶⁰	0.7	0.3
1	B	30 April '56	60 ¹⁹	2.5	2.3
1	C	1 May '56	19 ⁵⁰	1.0	0.6
TOTALS			88 129	4.2	3.2

TIDE NOTE

A portable automatic tide gage was installed and maintained by this party at Southwest Harbor, Maine, Latitude $44^{\circ} 16.5'$; Longitude $68^{\circ} 18.8'$. *... > off limits of sheet*

The height of Mean Low Water above the zero of the tide staff was 3.9 feet.

Gage was maintained and hourly heights scaled from marigrams by party personnel.

All times noted are 60th Meridian Eastern Standard Time.

see N.P.O.
List.

LIST OF SIGNALS

44 21 14.174 }
68 08 19.157 }
47 19 42.196 }
68 10 30.494 }

<u>Name</u>	<u>Source</u>
BAKER	Triangulation BAKER I. L.H., 1861-1934
EGG	EGG ROCK L.H., 1902-34
HEAD	" " GREAT HEAD OBSY, 1934-44
ACE	Photogrammetry - T-11350
BUD	" " "
COX	" " "
DUB	" " "
EGG	" "
EEK	" " "
FAG	" " "
HIP	" " "
IMP	" " "
JOC	" " "
KER	" " "
LUM	" " "
MIK	" " T-11349
NOB	" " "
NAT	" " T-11350
ONE	" " T-11349
PUB	" " "
RIP	" " "
SAG	" " "
SAY	" " T-11350
TUB	" " T-11349
TAR	" " T-11350

HANG DATA

<u>Latitude</u>	<u>Longitude</u>	<u>Hang- Depth</u>	<u>Position Number</u>	<u>Clear Depth</u>	<u>Position Number</u>	<u>Least Depth Sounding</u>
44° 18.9'	68° 11.1'	54.0 53.5	2-13C 60	46.0'	16-24C 18C	54.0'

AIDS TO NAVIGATION

See N.P.O. List

<u>Object</u>	<u>Recorded</u>	<u>Ship</u>
Great Head Bell Buoy "3"	Vol. 1 P 34	WAINWRIGHT
Otter Point Bell Buoy "1"	Vol. 1 P 27	WAINWRIGHT

FATHOMETER CORRECTIONS

Hired Launch - Fathometer No. 139 SP - Initial Set at ^{0.0}~~1.0~~ feet

a. Bar Check

A Scale (feet) -1.0 ft.
B Scale (feet) ~~2.0~~ ft.

b. Initial

-1.0 ft. initial correction

NORFOLK PROCESSING OFFICE
LIST OF SIGNALS
H-8337

TRIANGULATION STATIONS

BAKER BAKER ISLAND L.H., 1861-1934
EGG EGG ROCK L.H., 1902-34
HEAD GREAT HEAD OBSY., 1934-44

TOPOGRAPHIC STATIONS

SOURCE T-11350

ACE BUD COX DUB EEK FAG HIP IMP JOC KER
LUM NAT SAY TAR

SOURCE T-11349

MIK NOB ONE PUB RIP SAG TUB

NORFOLK PROCESSING OFFICE
FLOATING AIDS TO NAVIGATION

H-8337

<u>BUOY</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>DEPTH</u>	<u>POS. NO.</u>	<u>DATE</u>
Schooner Head L'td. Bell Buoy 3	44-20.08	68-10.12		11c	5/1/58
Otter Cliff Ledge Bell Buoy 1	44-18.50	68-10.98		1c'	"
Egg Rock Whistle Buoy 2ER	44-20.29	68-08.63		12c	"

NORFOLK PROCESSING OFFICE
ADDENDUM
To Accompany

H-8337

GENERAL

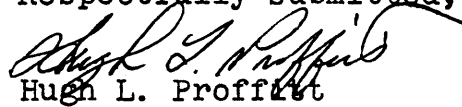
Leadered flags on the smooth sheet give pertinent data concerning the few hangs on this survey.

OVERLAYS

All drag lines were plotted on transparent overlays before transfer to the smooth sheet. These overlays contain the smooth plotter's notes explaining the methods used to resolve the few minor discrepancies encountered.

Norfolk, Va.
March 1, 1962

Respectfully submitted,



Hugh L. Proffitt
Cartographer

GEOGRAPHIC NAMES
Survey No. H-8337

Name on Survey											
	A	B	C	D	E	F	G	H	K		
Great Head	✓										1
Mt. Desert Island	✓										2
Newport Cove	✓										3
											4
											5
											6
											7
											8
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											27

George W. Pace
Geographic Names
3/19/62

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8337.W.D.

Records accompanying survey: Smooth sheets **1**...;
 boat sheets **2**...; sounding vols. **2**...; wire drag vols. **2**...;
 Descriptive Reports **1**...; graphic recorder envelopes **1**...;
 special reports, etc. **1**-A&D Sheet, **1**-Roll, Plotting overlays...
 and **1**-Boat sheet overlay.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	.....	<i>145</i>	<i>140</i>
Number of positions checked	.....	<i>15</i>	<i>37</i>
Number of positions revised	.....		<i>0</i>
Number of soundings revised (refers to depth only)	.....	<i>2</i>	<i>1</i>
Number of soundings erroneously spaced	.....	
Number of signals erroneously plotted or transferred	.....	<i>0</i>	<i>0</i>
Topographic details	Time	<i>1</i>	
Junctions	Time	<i>1</i>	
Verification of soundings from graphic record	Time	<i>3</i>	<i>21</i>
Special adjustments	Time	<i>0</i>	

* *Faxme B Powers* - - - - - *57 hrs* - - *Sept 15, 1970*
Partially Verified by J. D. McEvoy
 Verification by *A. J. Lunday*.. Total time **22** Date **Mar. 10, 1966**

Reviewed by Time Date

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H-8337 W. D.

The verifier should deal with the present hydrographic survey only, as the reviewer considers its relation to previous surveys and published charts. He should be thoroughly familiar with Chapters 3, 7 and 9 of the Hydrographic Manual.

1. The descriptive report was consulted and appropriate notes were made in soft pencil regarding action taken. ✓
2. Soundings originating with the survey and mentioned in the descriptive report have been verified, including latitude and longitude. ✓
3. All reference to survey sheets mentioned in the descriptive report include the registry number and year. ✓
4. Geographic names of hydrographic features if on sheet are in slanting lettering and of topographic features in vertical lettering. ✓
5. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken. ✓
6. All positions verified instrumentally were check marked in the sounding records. ✓
7. All critical soundings are clear and legible and are a little larger than the adjacent soundings. ✓
8. The metal protractor has been checked within the last three months.
9. The protracting and plotting of all bad crossings were verified.
10. All detached positions locating critical soundings, rocks or buoys were verified.
11. The boat sheet was compared with the smooth sheet. ✓

12. The spacing of soundings as recorded in the records was closely followed.
13. The bottom characteristics were shown on outstanding shoals.
14. The reduction and plotting of doubtful soundings were checked.
15. The transfer of contemporary topographic information was carefully examined. ✓
16. All junctions were transferred and overlapping curves made identical. ✓
17. The notation "JOINS H- (19--)" was added in ink for all contemporary adjoining or overlapping sheets now registered. Those not verified are shown in pencil. ✓
18. The depth curves have been inspected before inking.
19. All triangulation stations and transfer of topographic and hydrographic signals were checked. ✓
20. Heights of rocks were checked against range of tide.
21. Rocks transferred from topographic surveys have a dotted curve where shown thereon. Rocks located accurately by hydrographer are encircled by dotted red curve.
22. Unnecessary pencil notes have been removed. ✓
23. Objects on which signals are located and which fall outside of the low water line have been described on the sheet. ✓
24. The low water line and delineation of shoal areas have been properly shown.
25. Degree and minutes values and symbols have been checked. ✓
26. Questionable soundings have been checked on the fathograms. ✓

27. Source of shoreline and signals (when not given in report).

T-11350, T-11349

28. All notes on sheet are in accordance with figure 171 in the Hydrographic Manual. ✓

29. All aids located, with those on contemporary topographic sheets, have been shown on survey. ✓

30. Depth curves were satisfactory except as follows:

31. Sounding line crossings were satisfactory except as follows:

32. Junctions with contemporary surveys were satisfactory except as follows:

33. Condition of sounding records was satisfactory except as follows:

From Tender 109. P.P.s. 7c - 10c were changed due to error in Echo correction.

34. The protracting was satisfactory except as follows:

35. The field plotting of soundings was satisfactory except as follows:

36. Notes to reviewer:

Fully *Jessie B. Powers* — — — *9-15-70*
Partially Verified by J.D. McEvoy
 Verified by *A.F. Lunday* Date *3/10/66*

RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coastal Surveys~~

May 7, 1962

Division of Charts: R. H. Carstens

Plane of reference approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 8337

Locality Mt. Desert Island, Maine

Chief of Party: J. C. Ellerbe (1956)
Plane of reference is mean low water reading
3.9ft. on tide staff at Southwest Harbor
18.3ft. below B. M. 6 (1953)

Height of mean high water above plane of reference is: 10.2 feet.

Condition of records satisfactory except as noted below:

J. M. Symons
Chief, Tides and Currents Branch
~~Chief, Division of Tides and Currents~~

