

DECLASSIFIED BY NOAA
PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3.3(a), EXECUTIVE ORDER 12356

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Form 504
Rev. April 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic } Sheet No. 2 M 141 & 2 M 241
Hydrographic } (Field No's.)

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

AUG 26 1942

ACC. No. _____

State ALASKA

LOCALITY

CAPTAINS BAY

UNALASKA ISLAND

1942

CHIEF OF PARTY

F. B. T. SIEMS

U. S. GOVERNMENT PRINTING OFFICE 102221

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

HYDROGRAPHIC TITLE SHEET

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

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3.3(a) EXECUTIVE ORDER 12356

Field No. 2 M 141

REGISTER NO.

State ALASKA

General locality UNALASKA ISLAND

Locality CAPTAINS BAY

Scale 1/2,000 Date of survey MAY, 1941

Vessel EXPLORER

Chief of Party F. B. T. SIEMS

Surveyed by C. A. BURMISTER

Protracted by H. C. PARSONS

Soundings penciled by H. C. PARSONS

Soundings in fathoms feet FATHOMS

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by Robert Goldin

Verified by

Instructions dated May 15, 1941

Remarks: SMOOTH SHEET, PLOTTING AND REPORT BY

SEATTLE PROCESSING OFFICE

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

HYDROGRAPHIC TITLE SHEET

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

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GUIDELINES AS DESCRIBED IN SECTION
10801 EXECUTIVE ORDER 12856.

Field No. 2-M-261

REGISTER NO.

State ALASKA

General locality UNALASKA ISLAND

Locality CAPTAINSBAY

Scale 1/2,000 Date of survey MAY, 1941

Vessel EXPLORER

Chief of Party F. B. T. SIEMS

Surveyed by C. A. BURMISTER

Protracted by R. H. WOODCOCK

Soundings penciled by R. H. WOODCOCK

Soundings in fathoms feet FATHOMS

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by Robert Goldin

Verified by " "

Instructions dated, 19

Remarks: SMOOTH SHEET, PLOTTING, AND REPORT BY

SEATTLE PROCESSING OFFICE.

H6761 a x b

COMBINED REPORT

Field No's. 2 M 141 and 2 M 241

ALASKA

UNALASKA ISLAND

CAPTAIN'S BAY

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Scale 1/2,000

BY THE EXPLORER, 1941

F. B. T. SIEMS, CHIEF OF PARTY

REPORT PREPARED BY SEATTLE PROCESSING OFFICE

AUTHORITY

The following quote is from the season's report - EXPLORER, 1941
Aleutian Islands:

"On May 13th, the Commander, Alaska Sector, U. S. Navy, requested detailed hydrographic information of certain sections along the shore of Unalaska Bay. The necessary surveys required for this purpose were accomplished by the party of the EXPLORER during the period May 13 to 18 under authority from the Director. The results of the surveys were delivered to the Resident Officer in Charge of Construction, U. S. Navy, at Dutch Harbor."

METHOD

Standard. Shore line and signals were located by plane table.

T-6863(1941), T-6864(1941) T-6865(1941)

Three topography sheets, X, Y, and Z, were sent to Washington February 9, 1942.

Soundings, by launches using recording fathometers. ✓

SCALE

The large scale of 1/2,000 was used to conform with other sheets of the military establishment. ✓

TIDES

Reducers from Dutch Harbor Gage furnished by the Washington Office. ~

DISCREPANCIES - 2 M 241

H-6761 6

Lat. & Long.	Line	Depth-Fathoms	Remarks
53° 49'.84 166° 35'.97	18a + 7 to 18a + 9	5 4/6 fms. between a 3 5/6 - 4 fm. 7 1/2 fms between a 5 1/2 - 6 1/2 fm. 8 1/4 fms. between a 6 5/6 - 5 4/6 fm.	The soundings on this section of crossline seem a little too deep or misplaced.
53° 49'.35 166° 36'.00	20 a + 7 174 a + 4	8 fms. 6 4/6 fms.	Fell on same spot. <i>Crossing ok. 165 174a replotted</i>

The following lines were curved according to the soundings. It is obvious the launch did not run from position to position in a straight line although no change of courses was given in the volume. ✓

3a - 7a
9a - 10a
12a - 13a
59a - 60a
169a - 171a
12b - 15b

boat sheet failed to give true path of launch

DISCREPANCIES * 2 M 141

H-6761 a

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3.3(a), EXECUTIVE ORDER 12856.**

Some lines are apparently out of position. No attempt was made to correct them, other than to plot them similar to those on the boat sheet. Lines which are possibly out of position are listed below.

Lines Possibly out of position	Crossing Lines	Location	
85 - 87b	177 - 178b	53° 51'.04 166° 34'.6	Adjust pos 87 to sdgs agree with 2 crosslines
89 - 91b	179 - 180b	53° 51'.11 166° 34'.55	steep slope - positions ok.
167 - 170b	181 - 183b	53° 51'.25 166° 34'.32	ditto
82 - 83b		53° 51'.28 166° 34'.35	Line ok.
133 - 137b	99-100b; 70-72b	53° 51'.9 166° 33'.4	Pos. ok. - rough bottom
62 - 63b	61 - 62a	53° 51'.69 166° 32'.98	pos. 62a probably in error - shoaler sdgs plotted

STATISTICS

	2 M 141	2 M 241
Statute Miles of Sounding Line	14.7	18.4
Positions	282	310
Soundings	1800	1904
Area - Square Statute Miles	0.2	0.1

Edgar E. Smith
Edgar E. Smith
Assoc. Cartographic Engr.
Seattle Processing Office

The processing of these sheets has been inspected and is approved.

E. H. Bernstein
E. H. Bernstein, Lieut. Commander
Officer in Charge
Seattle Processing Office

T-6863 (1941)

The topographic tracing of sheet X 41 lacked a projection. The Washington Office furnished the positions of five points on X 41 which were plotted on the smooth sheet. (See Director's letter of 7/31/42.) The tracing was then fitted to these five points. ✓

LIST OF SIGNALS--

116261240
2 M 141
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3.3(a), EXECUTIVE ORDER 12856.

Triangulation

BLUFF 2 1934

ODER 2 1934

CAP 1934

Topographic T-6864(1941)

"1" 1941 Exp.

BOX
CLIFF
CAR
LED
BUN
NO
FLAG
WET
NOSE

T-6865(1941)

"2" 1941 Exp

PIN
SUMP
MAG
CREEK
BOX
AND
REEF
SMALL (POLE)

LIST OF SIGNALS-- 2 M 241

H-67616

Triangulation

ISLE 1896

Topographic - From Topo Sheet X-41

T-6863(1941)

APE
BOY
CAN
CAT
DOG
FAN
GAB
PIPE

H6761 a + b

TIDAL NOTE

CAPTAIN BAY

UNALASKA ISLAND

ALASKA

SHEETS 2 M 141 and 2 M 241

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Dutch Harbor Standard Gage

Latitude 53° 53'.5

Longitude 166° 32'.2

M.L.L.W. on Staff 4.2 feet

Reducers furnished by Washington Office

BOAT SHEETS -- 2 M 141 and 2 M 241

The boat sheets and sounding volumes were left with the officer in charge at Dutch Harbor, who sent the record books and only one boat sheet to Seattle. A request has been made on him for the other sheet, and if received it will be forwarded to Washington.

*Boat sheet for H-6761 b was
not received by Washington Office*

lac
HLE

TIDE NOTE FOR HYDROGRAPHIC SHEET

November 5, 1942.

~~Division of Hydrography and Topography~~

✓ Division of Charts: Attention: Mr. H. R. Edmonston.

Plane of reference approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 6761 a & b

Locality Captains Bay, Unalaska Island

Chief of Party: F. B. T. Siems in 1941
Plane of reference is mean lower low water reading
4.2 ft. on tide staff at Dutch Harbor
12.5 ft. below B. M. 1

Height of mean high water above plane of reference is 3.4 feet.

Condition of records satisfactory except as noted below:

E. T. Green

Chief, Division of Tides and Currents.

GEOGRAPHIC NAMES

Survey No.

H6761a *6*~~CONFIDENTIAL~~

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A,	B,	C,	D,	E,	F,	G,	H,	K	
Amanak Island									1
Bailey Ledge									2
Captains Bay									3
Obernoi Point									4
Port Levashef									5
South Amanak Islands									6
Unalaska Island									7
									8
									9
									10
									11
									12
									13
									14
									15
									16
									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27
									M 234-

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Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H6761a * b**

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Records accompanying survey:

Boat sheets ~~944~~.; sounding vols. ~~17~~.; wire drag vols. ~~1~~;
 bomb vols.; graphic recorder rolls ~~(1)~~;
 special reports, etc.

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

Number of positions on sheets	.592..	
Number of positions checked	.43..	
Number of positions revised	.4	
Number of soundings recorded	.3704..	
Number of soundings revised (refers to depth only)	...5..	
Number of soundings erroneously spaced	...13.	
Number of signals erroneously plotted or transferred	...0.	
Topographic details	Time ..2.45	
Junctions	Time ..8.45	by reviewer
Verification of soundings from graphic record	Time ..40 hrs.	

Verification by *Robert Goldin*.....Total time ..40 hrs. Date ..11/17/42..

Review by *R. H. Carstew*.....Time ..47^{hrs} Date ..11/20/42

Alaska, Unalaska Island, Captains Bay

Surveyed in May 1941; Scale 1:2,000

Instructions dated May 15, 1941

Soundings: Depth Recorder 808 Control: Visual Fixes on
Shore Signals

Chief of Party - F. B. T. Siems
Surveyed by - C. A. Burmister
Protracted by - H. C. Parsons
Soundings plotted by - H. C. Parsons
Verified and inked by - R. Goldin
Reviewed by - R. H. Carstens
Inspected by - H. R. Edmonston

1. Shoreline and Signals

The shoreline and signals originate with T-6863,
T-6864 and T-6865 of 1941.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Junctions with Contemporary Surveys

A satisfactory junction was made on both sheets of
the present survey with H-5981 (1935). The present
survey should supplement H-5684 (1934) in the area
in Lat. 53°51.9', Long. 166°33.4'. The critical
soundings have been added to this earlier survey and
the adjustment of the depth curves has been made
thereon.

5. Comparison with Prior Surveys

a. T-1950 (1867) 1:40,000

The few soundings on this sheet are of little
value for a comparison.

- b. H-5684 (1934) 1:5,000
H-5981 (1935) 1:5,000

Depth agreement with these surveys is very good, in general. Minor differences between the inshore soundings of H-5981 and of the "a" sheet of the present survey are attributed to differences in control and in the scales of the sheets rather than to changes in the bottom. Soundings from H-5981 in agreement with the present survey have been retained. Because of the closer development the present survey with the retained soundings should supersede the earlier survey within the common area.

The agreement with H-5684 is good except for a small area in Lat. $53^{\circ}51.91'$, Long. $166^{\circ}33.25'$ where soundings of $6-1/2$ to $6-5/6$ fathoms fall in depths of 9 - 11 fathoms on the earlier survey. The bottom is not of a changeable nature and no cause for the discrepancy can be found. The shoaler soundings of the present survey have been added to H-5684 and should be used to supplement this earlier survey within the common area.

6. Comparison with Chart 9008 (Latest print date 2-27-42)
9007 (" " " " 7- 4-42)

a. Hydrography

The charted hydrography within the limits of the present survey originates with the previously discussed surveys which need no further consideration.

b. Aids to Navigation

No aids to navigation fall within the limits of the present survey.

7. Condition of Survey

Satisfactory except that the courses of the sounding launch were not accurately represented on the boat sheet nor completely described in the sounding records. Full notes regarding courses, turns, speed, etc. would be helpful in plotting such a large scale sheet.

The "b" sheet of the survey was plotted and verified without the aid of the boat sheet or fathograms.

8. Compliance with Instructions for the Project

Satisfactory.

9. Additional Field Work Recommended

If a submarine base is built within the limits of H-6761b it would be advisable to develop by drift sounding or other appropriate means the 5-fm. area in Lat. $53^{\circ}49.76'$, Long. $166^{\circ}36.22'$.

10. Superseded Surveys

T-1950 (1867) in part
T-5981 (1935) " "

Examined and approved:



Chief, Surveys Section



Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of Coastal
Surveys

H.6761 a applied to chart 9008 I.M.A. Jan. 22, 1943
H.6761 a & b " " " 9007 I.M.A. " " "
" " " " " 9006 I.M.A. June "