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Diag. Sht. No. 8860-2

Form 504
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, Director

DESCRIPTIVE REPORT

Topographic } *Sheet No.* X, Y, and Z

Feb. 20, 1942

State Alaska

LOCALITY

Aleutian Islands

Captains Bay, Unalaska Islands

19 41

CHIEF OF PARTY

F. B. T. Siems

U.S. GOVERNMENT PRINTING OFFICE: 1934

Feb. 20, 1942

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

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

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

Field No. X

REGISTER NO. T6863 Confidential

State ~~Alaska~~ Aleutian Islands

General locality ~~Aleutian Islands~~ Unalaska Island

Locality Captains Bay, ~~Unalaska Island~~

Scale 1 : 2,000 Date of survey May 14 & 15, 19 41

Vessel EXPLORER

Chief of party F.R.T.Siems

Surveyed by H.A.Paton

Inked by H.A.Paton

Heights in feet above M.H.W. to ground ~~to tops of trees~~

Contour, Approximate contour, Form line interval ..... feet

Instructions dated May 15,1941, 19.....

Remarks: Request of U.S. Navy

GPO

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

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

Field No. Y

REGISTER NO. T6864 Confidential

State ~~Alaska~~ Aleutian Islands

General locality ~~Aleutian Islands~~ Unalaska Island

Locality Captains Bay, ~~Unalaska~~

Scale 1 : 2,000 Date of survey May 16, 1941, 19

Vessel EXPLORER

Chief of party F.R.T.Siems

Surveyed by E.B.Brown

Inked by E.B.Brown

Heights in feet above M.H.W. to ground ~~to tops of trees~~ ////////////

Contour, Approximate contour, Form line interval ____ feet

Instructions dated May 15, 1941, 19

Remarks: Request of U.S. Navy

GPO

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

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

Field No. Z

REGISTER NO. T6865 Confidential

State ~~Alaska~~ Aleutian Islands

General locality ~~Aleutian Islands~~ Unalaska Island

Locality Captains Bay, ~~Unalaska Island.~~

Scale 1 : 2,000 Date of survey May 16, 1941, 19

Vessel EXPLORER

Chief of party F.B.T.Siems

Surveyed by H.A.Paton

Inked by H.A.Paton

Heights in feet above M.H.W. to ground ~~to tops of trees~~

Contour, Approximate contour, Form line interval ..... feet

Instructions dated May 15,1941, 19

Remarks: Request od U.S. Navy.

GPO

F. B. T. Siems, Commanding

U. S. C. & G. S. SHIP EXPLORER

CONFIDENTIAL

DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEETS X, Y, AND Z

CAPTAINS BAY, UNALASKA ISLAND

ALASKA

INSTRUCTIONS DATED: May, 1941

INSTRUCTIONS: The surveys in Captains Bay were made at the request of the U. S. Navy at Dutch Harbor, Alaska. Authority to do the work was received by radio dated May 15, 1941 from the Inspecter, Seattle Field Station, forwarding a telegram from the Director.

PURPOSE: The Navy desired a preliminary survey of certain areas in Captains Bay for a possible destroyer and submarine base. Since they wished it to be on as large a scale as possible, the sheets were laid out for a scale of 1:2,000. Our surveys were preliminary only, to find if any one of several areas would warrant a thorough survey.

T-6863

LIMITS & CONTROL: Sheet X covers the south east part of Captains Bay. It has only one triangulation station on it: Isle, 1896. It cannot be oriented accurately, and no projection was constructed. An approx. projection was put on by the Washington office by adjustment of shoreline to shoreline of T-6425 (1935)

T-6864

Sheet Y is on the east side of Captains Bay between Stations Ober 2, 1934 and Bluff 2, 1934.

T-6865

Sheet Z is on the north side of Captains Bay between Stations Cap 1934 and Ober 2, 1934.

METHODS: In order to expedite the field work no projections were

made before the surveys were started. On sheets Y & Z (T-6864 & T-6865), each of which had two triangulation stations, the two control points were plotted the correct distance apart. After the field work was finished, the projections were fitted to these two points.

On sheet X (T-6863) only one control point was recovered, and therefor oriented in Washington office no orientation could be obtained.

At first, the intention was to locate a few hydrographic signals and the high water line only. Later the approximate low water line was shown for most of the area surveyed. No attempt was made to obtain formlines or a complete survey in accordance with the topographic manual.

CLOSURES: On sheet X (T-6863), a random stadia traverse was made between Signals Ape and Lew. There was no check on this traverse. The signals on the small islands were located by intersection from the stations on the traverse.

On Sheets Y (T-6864) and Z (T-6865) traverses were run between triangulation stations and the closing errors were negligable.

MAGNETICS: The magnetic meridian is shown on all sheets. Declinitoir No. 252, used on Sheets X and Z, has an index error of plus 4 minutes. Declinitoir No. 254, used on Sheet Y, has an index error of minus 9 minutes.

GENERAL DESCRIPTION OF THE COUNTRY: Along the shore there are narrow gravel beaches bordered by grassy slopes interrupted by intermittent bluffs, with boulder shelves. There are several offshore rocks and small islands.

GENERAL NOTES: Field work was accomplished under unfavorable weather

conditions due to wind, rain and snow.

On Sheet Z (T-6865), two signals, And & Eck, fall outside of the limits of the sheet. Three cuts were taken to each of these, which can be extended on the hydrographic sheet to obtain the location.

STATISTIC: Statute miles of shore line; Sheet X (T-6863)--2.4
" Y (T-6864)--0.9
" Z (T-6865)--1.0

DESCRIPTION OF H. & T. STATIONS: Descriptions of all signals on sheets Y & Z (T-6864 T-6865) used by the hydrographic party are furnished on Form 524 (old form) for the information of the U. S. Navy. Since the DMs & DPs could not be scaled on Sheet X (T-6865), the type of station mark is indicated on the sheet itself, and no cards are furnished.

Retained by Navy. Adequate notes on topo sheets

COMPARISON WITH PREVIOUS SURVEYS: Copies of the original surveys are not available and a comparison with the small scale chart, No. 9007, would serve no desirable purpose.

GEOGRAPHIC NAMES: All names shown were obtained from Chart No. 9007. No attempt was made to verify these nor to obtain addidional names.

Respectfully submitted,

Hubert A. Paton
Hubert A. Paton
Topographic Sheets X & Z

Edward B. Brown
Edwin B. Brown
Topographic Sheet Y

Forwarded
F. B. T. Siems, Comdr.
U.S.C. & G.S.S. EXPLORER
approved
F B T Siems

	Remarks	Decisions
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M 234		

GEOGRAPHIC NAMES

Survey No. T6863

Name on Survey	On Chart No. A,	On previous survey No. B,	On U. S. quadrangle Maps C,	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Captains Bay										1
Port Levashef										2
Unalaska Island										3
										4
				names underlined in red approved						5
				by L. Heck		on 6/18/42				6
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M 234

GEOGRAPHIC NAMES

Survey No. T6864

Confidential

Name on Survey	On Chart No. A,	On previous survey No. B,	On U. S. quadrangle Maps C,	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Captains Bay										1
Obernoi Point										2
Unalaska Island										3
										4
			[names underlined in red approved							5
			by L. Heck on 6/18/42]							6
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M 234

	Remarks.	Decisions
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M 234

GEOGRAPHIC NAMES

Survey No. T6865

[redacted]

Name on Survey	On Chart No. A,	On previous survey No. B,	On U. S. quadrangle Maps C,	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Amaknak Island										1
Bailey Ledge										2
Captains Bay										3
Obernoi Point										4
South Amaknak Rocks Islands										5
Unalaska Island										6
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Names underlined in red approved by L. Heck on 6/18/42

M 234

FORM M-238

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

~~No.~~ T6863
No. T T6864
T6865

received February 17, 1942
registered February 20, 1942
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
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RETURN TO

82	R. W. Knox

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEYS — REGISTRY NOS. T-6863, T-6864, T-6865
Field Nos. X,Y,Z

Aleutian Islands; Unalaska Island; Captains Bay
Surveyed in May 1941; Scale 1:2,000
Instructions dated May 15, 1941

Plane Table Survey — Aluminum Mounted

Chief of Party - F. B. T. Siems
Surveyed by - H. A. Paton; E. J. Brown
Inked by - H. A. Paton; E. J. Brown
Reviewed by - R. H. Carstens
Inspected by - H. R. Edmonston

1. Adjoining Surveys

T-6865 joins T-4889 (1934) on the east and T-6864 of the present survey on the west. T-6864 joins T-6425 (1935) on the southwest. T-6863 falls within the limits of T-6425 (1935).

2. Comparison with Prior Surveys

a. T-1950 (1867) 1:40,000
T-2135 (1871-72) 1: 5,000
T-2236 (1896) 1:10,000

Because of the difference in scales there is only general agreement with the small scale survey. Agreement with the large scale surveys is fairly good. There are differences in position amounting to about 20 meters in certain portions of the shoreline. The present survey is adequate to supersede these earlier surveys within the common area.

b. T-6425 (1935) 1:5,000
T-6426 (1935) 1:5,000

The agreement with these surveys is, in general, good. In spots the highwater line differs by as much as 15 meters, as in Lat. 53°51.5'; Long. 166°33.8'. The position of the low water line

differs by as much as 25 meters and is probably more accurately located on the present survey. A number of rocks baring at MLLW which were not located, probably because of the preliminary nature of the present survey, have been transferred to it. The present survey sheets T-6864 and T-6865 are considered adequate to supersede the earlier surveys within the common area.

T-6863 is not considered so accurately surveyed as the 1935 survey because of the large amount of sketching between rodded shots and the fact that only one triangulation station was recovered.

There are numerous differences of 15-20 meters in the position of the high water line. T-6863 of the present survey is considered satisfactory for the location of hydrographic signals but it should not supersede the 1935 survey for charting topographic features.

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

a. Topography

The charted topography originates with the previously discussed surveys and needs no further consideration.

b. Aids to Navigation

No aids to navigation are charted within the limits of the present survey.

c. Magnetic Meridian

The magnetic meridian determined on each sheet is in satisfactory agreement with the charted value.

4. Projection

The projection on T-6863 has been added in the Washington Office and should be considered as approximate. Only one triangulation station on the sheet was recovered. The projection was fitted to this station and oriented by an adjustment of the shoreline to the shoreline of T-6425 (1935).

5. Superseded Surveys

T-1950 (1867)	in	part
T-2135 (1871-72)	"	"
T-2236 (1896)	"	"
T-6425 (1935)	"	"
T-6426 (1935)	"	"

Examined and approved:

Robert W Knox
Chief, Surveys Section

J S Bowden
Chief, Division of Charts

L R Raynor
Chief, Section of Hydrography

G Rude
Chief, Division of Coastal Surveys