

4954

4954

Form 504 Rev. Dec. 1933	
DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PAYTON, DIRECTOR	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. FL-1-1939
U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES MAR 28 1940 Acc. No.	
State ALASKA	
LOCALITY	
ALASKA PENINSULA	
DEER ISLAND	
193 9	
CHIEF OF PARTY	
G. C. Jones	

CP

Applied & Pat 8703	June 1940	H.S.D.
" " 8860	July "	H.S.D.
" " 8802	Nov "	E.M.A.
" " 8705	June 1942	A.F.D.

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. FL - 1 - 1939

T4954

REGISTER NO.

State ALASKA

General locality ALASKA PENINSULA

Locality DEER ISLAND

Scale 1: 20,000 Date of survey September, 1939

Vessel DISCOVERER

Chief of party G. C. JONES

Surveyed by P. C. DORAN

Inked by P. C. DORAN

Heights in feet above MHW to ground ~~contours made from~~

~~Contours made from approximate contours~~ Form line interval 100 feet

Instructions dated March 18, 1938; Supp. April 6, 1939 19

Remarks: This sheet is just for Form Lines, the shore line
having been done in 1939 on various regular topographic sheets.

DESCRIPTIVE REPORT
TO ACCOMPANY
FORM LINE SHEET FL-1-1939
DEER ISLAND, S. W. ALASKA

AUTHORITY

Work on this sheet, part of Project HT-219, was done under Instructions dated March 18, 1938, and Supplemental Instructions of April 6, 1939.

LIMITS

Prior to 1939, the topography of the south half of Deer Island had not been delineated. During the past season a complete survey of this section was made. The area was covered by portions of three topographic sheets, F-39 (T-6698), H-39 (T-6700), and J-39 (T-6701). The position and elevation of various peaks, saddles, and points were determined and shown on the individual sheets. In order to show the form lines as a coordinated whole, it was thought advisable to make a projection covering the entire southern section of Deer Island. This projection was made, and used for the delineation of the form lines on Deer Island.

The projection covers the area between Latitudes $54^{\circ} 48'$ N and $54^{\circ} 56'$ N, and between Longitudes $162^{\circ} 08'$ W and $162^{\circ} 28'$ W.

The actual area surveyed for form lines lies between Latitudes $54^{\circ} 49.8'$ N

and $54^{\circ} 55.3'$ N and Longitudes $162^{\circ} 14'$ W and $162^{\circ} 25.5'$ W.

The form lines on the north end of this sheet join those on Topographic Sheet T-⁴¹⁵⁷~~4175~~ (R. F. Luce, 1925).

GENERAL DESCRIPTION

A general description of Deer Island was given on the various topo sheets mentioned under limits. After completion of the form lines it can be seen that the southern section of the island is very much like the northern section as shown on topographic sheet T-4157 (R. F. Luce, 1925), the entire island consisting of "a series of high conical peaks, many of which are so nearly of the same elevation as to be recognized with difficulty from different positions", to quote from the Coast Pilot. The entire area is treeless and grass-covered. Numerous streams of pure water drain this area. During the fishing season, salmon frequent many of the streams in this section. A large wide valley extends northeastward from the southwest side of the island. The east side of this valley gradually rises to the summits and then drops off steeply to the eastern shore. A number of small lakes dot the interior of the island. *Not shown on sheet*

LANDMARKS

The landmarks of this area have been described on the various topographic sheets covering this area, and need not be re-described. A list of landmarks is made part of this report.

CONTROL

Five good second-order triangulation stations (LET, FAWN, HUNT, MIDUN, and PATTON, all 1936 work) furnished control for this area.

Triangulation Stations DOC and DOE, and prominent topographic signals transferred from 1939 topographic sheets furnished additional control.

TRAVERSES

No traverses were run on this sheet, as the prominent peaks were located by cuts from triangulation stations.

REVISION WORK

As this was an original survey of this area, no revision work was done.

COMPLETENESS

This sheet is complete as it stands, and no additional work is needed for Deer Island.

PROCEDURE

Standard practice was used throughout this sheet.

JUNCTION

The form lines on the north end of this sheet joined those on Topographic Sheet T-⁴¹⁵⁷~~4175~~ (R. F. Luce, 1925). The form lines shown on this sheet in pencil have been traced from photostats of Sheet ⁴¹⁵⁷T-~~4175~~. Very good agreement was found between the old and the new work, the only noticeable differences being near Station DOE, where the form lines turn back to conform with the bight in the shore line just south of DOE (which was not in the area of the old sheet) and at the pass located at $54^{\circ} 54' N$, and $162^{\circ} 22' W$. This pass was just over 500 feet high, while the old work shows (in dotted lines) a height of about 800 feet. As this was shown in dotted lines, I believe the slight adjustment to the new lines is proper, and will

*Adjustment
made.*

complete the form lines for the entire area of DEER Island. This addition to our inshore Chart No. 8703 will eliminate a large blank area and aid in local navigation.

NAMES

DEER ISLAND is shown as the official name on our charts of this area, and also in the Coast Pilot.

PLANE TABLE POSITIONS

No list of plane table positions is given, as the prominent peaks were cut in by triangulation, and their positions have been given under the individual sheets covering the area, or on the Landmarks form.

DISTORTION

This projection was made in the field under the prevailing conditions in order to eliminate great amounts of distortion. It was found that the distortion was very small, and in no way affected the accuracy of the delineation of the form lines.

STATISTICS

The area covered by this sheet in square statute miles is 24.2.

The length of shore line is covered under the individual sheets on which it was delineated.

APPROVED AND FORWARDED:

Geo. L. Bean
Geo. L. Bean,
H. & G. Engineer,
Commanding DISCOVERER

Respectfully submitted,

Philip C. Doran
Philip C. Doran,
H. & G. Engineer,
Ship DISCOVERER.

Remarks

Decisions

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GEOGRAPHIC NAMES

Survey No.

T4954

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	
<u>Deer Island</u>									1
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Names underlined in red approved

by L. A. Heck on 5/17/46

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

~~No. T~~

No. T **T4954**

received April 18, 1940
registered April 26, 1940
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	T. B. Reed
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DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY

REGISTER NO. 4954

Field No. FL-1

Alaska, Alaska Peninsula, Deer Island
Surveyed September 1939, Scale 1:20,000
Instructions dated March 18, 1938, and April 6, 1939
(DISCOVERER)

Plane Table Survey

Whatman's Paper

Chief of Party - G. C. Jones
Surveyed by - P. C. Doran
Inked by - P. C. Doran
Reviewed by Harold W. Murray, Jan. 6, 1942
Inspected by - H. R. Edmonston

1. Junctions with Surveys

A junction is made with T-4157 (1925) on the north. The form lines on the present survey are continued to the point at which a satisfactory junction is made with this earlier survey. A small adjustment was made by the reviewer in the vicinity of Lat. $54^{\circ}54.5'$, Long. $162^{\circ}22.5'$ as suggested in the Descriptive Report, page 3.

The shoreline shown on the present survey was transferred from the contemporary 1939 surveys: T-6698, T-6700, and T-6701.

2. Comparison with Prior Surveys

H-3306 (1911) shows a reconnaissance shoreline outline of Deer Island but no form lines are indicated.

3. Comparison with Chart 8703 (New Print date Aug. 14, 1940)

The present survey was applied to the chart prior to this review and no details have been retained from earlier sources which need consideration in this review.

Revisions were made by the reviewer in two instances which are not shown on the chart. A small closed 1400-ft. contour was drawn about the 1400-ft. elevation in Lat. $54^{\circ}54'$, Long. $162^{\circ}15'$. Adjustment of form lines with those on T-4157 (1925) in Lat. $54^{\circ}54.5'$, Long. $162^{\circ}22.5'$ is substantially the same as charted except that the form lines are indicated by a broken line whereas the form lines on the chart are solid.

4. Compliance with Project Instructions

Satisfactory.

5. Condition of Survey

The shoreline transferred from the contemporary 1939 surveys (see Par. 1 of this review) was only accurate within 50 m. This shoreline was removed and again transferred correctly.

6. Additional Field Work Recommended


None.

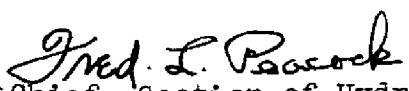
7. Superseded Surveys


No inland formline surveys have been made in this area by this Bureau.

Examined and approved:


Chief, Surveys Section


Chief, Division of Charts


Acting Chief, Section of Hydrography


Chief, Division of
Coastal Surveys