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Form 504 Rev. Dec. 1933	
DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR	
DESCRIPTIVE REPORT	
Topographic <del>Hydrographic</del>	Sheet No. T-6700
U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES MAR 14 1940 Acc. No. _____	
State	ALASKA
LOCALITY	
DEER ISLAND	
S. W. ALASKA	
193 9	
CHIEF OF PARTY	
G. C. Jones	

Apphron to ChA	8703	-	June 1940	-	J.H.B.
"	"	"	8860	July	"
"	"	"	8802	Nov.	"
"	"	"	8705	June 1942	J.P.A.

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. H-39

**T6700**

REGISTER NO. T-6700

State SW Alaska

General locality Deer Island  
Alaska Peninsula (South Side)

Locality S. E. Side of Deer Island vicinity

Scale 1: 20,000 Date of survey August, 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 ~~to tops of trees~~

~~Contours, approximate contours~~ Form line interval 50 feet

Instructions dated March 18, 1938, 19

April 6, 1939

Remarks: \_\_\_\_\_



## DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET H-39 (T-6700)

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

The area covered by the projection on this sheet lies between latitudes  $54^{\circ} 50' N$ , and  $54^{\circ} 56' N$ , and longitudes  $162^{\circ} 08' W$ , and  $162^{\circ} 22' W$ . The sheet includes the shore line of Deer Island from marked hydrographic signal ACE ( $54^{\circ} 50.7' N$ ;  $162^{\circ} 16.5' W$ ) northward to Triangulation Station DOC ( $54^{\circ} 54.9' N$ ;  $162^{\circ} 14.2' W$ ) and the northeastern portion of Midun Island. Triangulation Station PATTON-1911 has been plotted for control, but due to closing of the field work at the end of the season, the topography of the island on which PATTON is located has not been done. As this station will be used for control on the adjoining sheet to the east, the topography of the island should be done on that sheet.

The south end of this sheet joins topographic sheet J-39 (T-6701) at signal ACE on Deer Island, and at signals JAM ( $54^{\circ} 50.7' N$ ;  $162^{\circ} 10.7' W$ ), and ROT ( $54^{\circ} 50.5' N$ ;  $162^{\circ} 10.2' W$ ) on Midun Island.



At the north end of the sheet a junction is made with topographic sheet T-4157 (R. F. Luce, 1925) at Triangulation Station DOC.

Signals were built and located for a distance of one mile north of DOC for the use of hydrographic parties. The shore line was not delineated as it is shown on Sheet T-4157.

#### GENERAL DESCRIPTION

The portion of Deer Island shown on this sheet is covered with a series of conical peaks, all but the highest being covered by grass and vegetation. There are no trees on Deer or Midun Island. The shore of Deer Island is, for the most part, steep and rocky and fringed with rocky ledges. The shore in the vicinity of the streams near signals DROP ( $54^{\circ}52.1'$ ;  $162^{\circ}15.9'$ ) and WAT ( $54^{\circ}52.8'$ ;  $162^{\circ}15.1'$ ) is gentle in slope. Fresh water can be obtained at any of the streams in this area. A fish trap, owned by the Pacific American Fisheries (nearest cannery at King Cove), and operated during the fishing season, is located as shown on sheet. There are no man-made structures on this part of the island.

Midun Island shows as a series of grass covered rounded knolls. The shore on the northeastern portion is very steep, rising almost vertically to heights of 140 feet. Landings can be made on the south side of the island where the land is more gentle in slope. No water is available on this island.

#### LANDMARKS

Although most of the peaks on Deer Island are of nearly equal height, two in the area covered by this sheet are more prominent than the rest. One, peak, SEA, located by triangulation (at end of season this position was found to agree with position obtained by cuts on this topo sheet) is a bare, tilted strata, sharp, pyramidical shaped peak on the northeasterly side of a group of peaks at the south end of Deer Island.

This peak was used as a hydrographic signal for the offshore work done by the DISCOVERER. It shows up well. The second peak ( $54^{\circ}54.6'$ ;  $162^{\circ}16.6'$ ) is a sharp top, uniform, conical-shaped peak showing well from the east. A small slide extends up the east side of this peak. The form lines covering these peaks are to be found on form line sheet FL-1-39.

See T-4954 (1939)

See T-4954

A slide, its base at topo signal SLY ( $54^{\circ}51.6'$ ;  $162^{\circ}16.4'$ ) extends to within a few hundred feet of the summit of peak SEA. This slide is listed as a landmark as it can be used by cannery tenders and small boats running near Deer Island when fog or clouds cover the top of the hills. This condition is often encountered in this vicinity.

#### CONTROL

Two good second-order triangulation stations, PATTON and MIDUN, 1936, both in Capt. Senior's 1936 scheme, were recovered, and furnished the basic control for this sheet. These stations were so located on off-lying islands that cuts could be made to all the signals established on the Deer Island shore for hydrographic control. Checks on the positions of these signals were made by direct rod readings from plane table setups made during delineation of the shore line.

No position or description of triangulation station DOC, shown on topographic sheet T-4157 (R. F. Luce, 1925) was available, so its position was scaled from the photostat of T-4157, adjusted for distortion, and plotted on this sheet. The station was recovered and this position was checked in the field and found to agree with the new plane table position.

From the records on the DISCOVERER, it appears that the triangulation is on the Unalaska Datum, field computations, unadjusted.

#### TRAVERSES

No traverses were run, as everything was located by direct



cuts from triangulation stations, resections, and independent plane table setups.

#### AUXILIARY METHODS

Standard methods of cuts, resections, and direct rod readings were used throughout this sheet. Rocks and reefs were located by direct rod readings.

#### FORM LINES

Form lines for Midun Island were drawn on this sheet and verified from off shore. Position and elevation of various peaks, saddles, and points on Deer Island were determined and shown on this sheet. As Deer Island was covered by sheets T-4157 (R. F. Luce, 1925), F-39 (T-6698), J-39 (T-6701), and this sheet, it was thought advisable to make a sheet covering all of Deer Island south of sheet T-~~4175~~<sup>4157</sup> and show the form lines as a coordinated whole. The sheet so made, FL-1-1939, shows the form lines for Deer Island. These lines were verified from off shore.

#### REVISION WORK

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

#### COMPLETENESS

This sheet is complete as it stands. As mentioned under LIMITS, the topography of the island on which station PATTON is located was not done. As PATTON will be one of the control stations for the adjoining sheet <sup>T-6766(1940)</sup> to the east, it is planned to do the topography of the island on that sheet.

#### PROCEDURE

Standard practice was used throughout the sheet.

#### JUNCTION

Proper junctions were made with sheet J-39 (T-6701) to the



south at marked topographic station ACE, Deer Island, and whitewash rocks JAM and ROT, Midun Island.

At the north end of the sheet a proper junction was made with topographic sheet T-4157 (R. F. Luce, 1925) at triangulation station DOC.

#### NAMES

The islands shown on this sheet have their names shown on Coast and Geodetic Survey charts of this vicinity.

#### PLANE TABLE POSITIONS

A list of plane table positions of prominent objects and recoverable stations is furnished.

#### DISTORTION

A 24" x 31" aluminum mounted sheet was used, and no distortion was noted at any time.

#### MAGNETIC OBSERVATIONS

Magnetic observations were made at triangulation station PATTON-1911 with new transit magnetometer No. 38976. The uncorrected value of declination was  $17^{\circ} 16'$  E. 40

#### STATISTICS

Statute Miles of Shore Line- - - - - 6.7

Area Surveyed, Square Statute Miles- - - - - .05\*

\*This is area of section of Midun Island. Area on Deer Id. is covered by <sup>T-4954</sup> FL-1-1939 sheet. The sheet actually covers all the land and visible dangers in an area of about 20 square nautical miles.

Respectfully submitted,

APPROVED AND FORWARDED:

*Geo. L. Bean*

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

*Philip C. Doran*

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



# PLANE TABLE POSITIONS

OBJECT & DESCRIPTION	LAT.	D.M.	LONG.	D.P.	HEIGHT	REMARKS
ACE, Marked Topo signal. Whitewashed ✓	54° 50'	1257	162°16'	530	16'	Described on Form 524
LUG, Whitewashed Rock ✓	54° 51'	1669	162°16'	105	10	" " "
DROP, Water Falls ✓	54° 52'	125	162°15'	1060	15	" " "
CAN, Marked Topo Signal. Tripod.	54° 53'	110	162°14'	199	90	" " "
SPIKE, Whitewashed Rock.	54° 53'	849	162°13'	1059	25	" " " ✓
FAY, Marked Topo Signal. Whitewash	54° 53'	1280	162°13'	980	16' on sheet (12)	" " "
BIG, Whitewash on 25 ft. rock.	54° 54'	1000	162°14'	64	25	" " "
Peak SEA. Sharp pyramidical peak.	54° 51'	1107	162°17'	265	1985	On Landmark Forms
SLY, Bottom of slide on side of Peak SEA	54° 51'	1114	162°16'	420	15	" " "
Conical Peak	54° 54°	1152	162°16'	713	1965	" " "

A position for Triangulation Station "DOC" has been received from the Washington Office since this report was written. The value scaled from the Topp Sheet agrees with this position within 2 meters in Latitude, and 2.8 meters in Longitude. As this is so small on this scale, no adjustment need be made. ✓

o.c.p.



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## LANDMARKS FOR CHARTS

TO BE CHARTED  
~~TO BE CHARTED~~

STRIKE OUT ONE

Aberdeen, Washington

February 15, 1940

I recommend that the following objects which have (~~been~~) been inspected from seaward to determine their value as landmarks, be charted on (~~the chart~~) the charts indicated.

The positions given have been checked after listing.

*Geo. L. Bean*

Geo. L. Bean

Chief of Party.

GENERAL LOCALITY		NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE		LONGITUDE		DATUM (A)							
			° ' "	D. M. METERS	° ' "	D. P. METERS								
Deer Island SW Alaska Sandman Reefs			54 37	1607.5	162 22	113.9	Unalaska Tri.		1936		X	X	8860 8802	
PEAK, the northeasterly of two sharp points of equal height-- (162 ft.) on Cherni Island. Triangulation Station CHER-1936.													8860 8802	
PEAK, sharp pyramidal, southerly end Deer Island. Height 1985 feet. Triangulation Station SEA-1939			54 51	1107	162 17	265	"	"	1939	X	X		8860 8802 8703	
SLIDE, gray landslide extending from SLX(T-6700) up east side of *PEAK above mentioned, to very near the top.			54 51	1114	162 16	420	"	TopoSheet H-39(T-6700)	1939	X			8703	
PEAK, conical, Deer Id. Ht. 1965 ft.		Δ Peak "E"-1939	54 54	1152	162 16	713	"	Triangulation	1939	X	X		8860 8703	
PEAK, sharp, Deer Id., Height 1930'		Δ Peak "A"-1939	54 51	82	162 19	78	"	TopoSheet T-39(T-6701)	1939	X	X		8860 8703	
PEAK, Sharp, " " " 1750'			54 50	680	162 18	471	"	TopoSheet T-39(T-6701)	1939	X	X		8860 8703	
PEAK, rounded knob, highest point on Goose Id., 101 feet high. (HI-Sheet K-39 (T-6702))			54 41	233	162 13	598	"	TopoSheet K-39(T-6702)	1939		X		8802	
(A) Datum is Unalaska, Unadjusted Field Computations														

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.



## Remarks

## Decisions

1		545620
2		"
3	Referred to U.S.G.B. do not int pending decision.	"
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## GEOGRAPHIC NAMES

Survey No.

16700

Name on Survey

	A. On Chart No.	B. On previous survey No.	C. On U. S. quadrangle Maps	D. From local information	E. On local Maps	F. P. O. Guide or Map	G. Rand McNally Atlas	H. U. S. Light List	
<u>Deer Island</u>									1
<u>Midun Island</u>									2
<u>Patton Island</u>	US & B decision								3
									4
									5
	Names underlined in red approved by L. Heck on 5/16/40								6
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# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
PHOTOSTAT OF

~~No. H~~  
No. T

T6700

received March 14, 1940  
registered March 18, 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
20			
22			
24			
25	✓	HLL	Pages 2 and 3
26			
30			
40	✓ OWS	OWS HLL	Page 5- PW.
62			
63			
82			
83			
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90			

RETURN TO

82	T.B.Reed
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✓ TBR

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY

REGISTER NO. 6700

FIELD NO. H-39

S. W. Alaska, Deer Island  
S. E. Side of Deer Island and Vicinity  
Surveyed August 1939, Scale 1:20,000  
Instructions dated March 18, 1939, and April 6, 1939  
(DISCOVERER)

Plane Table Survey

Aluminum Mounted

Chief of Party - G. C. Jones  
Surveyed by - P. C. Doran  
Inked by - P. C. Doran  
Reviewed by - Harold W. Murray, January 4, 1942  
Inspected by - H. R. Edmonston

1. Junctions with Adjacent Surveys

The junctions on the south with T-6701 (1939), on the north with T-4157 (1925) and with the mainland formline survey T-4954 (1939) are very good.

Patton Island on which triangulation station PATTON is established is surveyed on T-6766 (1940).

2. Comparison with Prior Surveys

H-3306 (1911), Scale 1:40,000

This survey contains a highly generalized broken line outline of Deer Island and reveals no information which needs be specifically considered.

3. Comparison with Chart 8703 (New Print date 8-14-40)  
8860 ( " " " 11-25-40)

a. Topography

The present survey was applied to the charts prior to review. There is no information on the charts retained from earlier sources which needs consideration in this review.

b. Magnetic Observations

Magnetic observations made on Patton and Midun Islands are shown on T-6766 (1940) and T-6701 (1939), respectively.

4. Compliance with Project Instructions

Satisfactory.

5. Condition of Survey

Satisfactory.

6. Additional Field Work Recommended

None.

7. Superseded Surveys

H-3306 (1911) in part.

Examined and approved:



Chief, Surveys Section



Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of Coastal  
Surveys