

6698

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, Director

DESCRIPTIVE REPORT

Topographic }
~~Hydrographic~~ } Sheet No. T-6698

U. S. COAST & GEODETIC SURVEY

LIBRARY AND ARCHIVES

MAR 14 1940

Acc. No. _____

State *S.W.* Alaska

LOCALITY

South West Side Deer Island & Vicinity

1939

CHIEF OF PARTY

G. C. Jones

6698

67

Apples & etc	8703	June	1940	J.S.S.
"	"	"	"	J.S.S.
"	"	"	8860 July	J.S.S.
"	"	"	8802 Nov.	F.M.A.
"	"	"	8705 June	1940 A.F.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. F-1939

T6698

REGISTER NO. T-6698

State S.W. Alaska

General locality Deer Island

Locality S.W. Side of Deer Island and Vicinity

Scale 1:20,000 Date of survey July - August, 1939

Vessel DISCOVERER

Chief of party G. C. Jones

Surveyed by G. W. Moore

Inked by G. W. Moore

Heights in feet above MHW to ground ~~to tops of buildings~~

Contour, Approximate contour, Form line interval _____ feet

Instructions dated March 18, 1938, 19____

April 6, 1939

Remarks: _____

DESCRIPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC SHEET No. T-6698
S. W. SIDE DEER ISLAND

INSTRUCTIONS

This work was executed in accordance with Instructions dated March 18, 1938, and Supplemental Instructions dated April 6, 1939.

DESCRIPTION OF COAST AND LANDMARKS

Deer Island consists of a series of high conical peaks with a very rugged coast line. At the north end of the sheet the slopes leading up from the shore line are quite gentle in comparison with those near the south end of Deer Island. Midway up the west side of Deer Island is an unnamed small peninsula which forms a landmark. It appears as a small sliced-off knoll on a point of land extending out to sea. Close to the southward is a small rocky island and reef which forms ~~a small rocky island and reef which forms~~ the west side of a bay. Two unnamed rivers empty into the bay. The eastern-most one of the rivers is the largest and drains an extensive low lying pocket and swamp to the eastward from the landmark mentioned above. The shore line at the south end of Deer Island around Fawn Pt. is perpendicular, and appears that way from out to sea.

There are three off-lying islands southwest of Deer Island, and all three are almost on a northwest-southeast range. The most northerly one of the three is Sozavarika Island, the other two are unnamed,

✓ also
P4
See firm lines
ONT-4954
(1039)

but for purposes of this report will be referred to as Let Island and Fawn Island since one has Triangulation Station LET-1936 upon it, and the other has Triangulation Station FAWN-1936 on it. Sozavarika Id. has no high points, all of it is quite low with a rock shore line. The top is covered by a heavy growth of grass. It appears flat from a distance, but the top is covered with alternate ridges and gulleys about 4 feet deep, making walking very difficult.

✓ Let Island has one knoll at the north end which is higher than the rest of the island, and upon this knoll is Triangulation Station LET-1936. The knoll is so definite and distinctive that it can be used for an hydrographic signal. The top of the island is similar to Sozavarika Island, but the shore line is steeper, and especially on the west side is cut up by narrow inlets. ✓ South of the island about 400 meters is a round rock baring 8 feet at MHW. (Bun Rock - Page 3)

✓ Fawn Island, the south one of the three has a rough top and a rugged shore line.

HORIZONTAL CONTROL

All the topography, and all the signals on the sheet are controlled by Triangulation Stations REEF-1911, LET-1936, FAWN-1936, and HUNT-1936.

CLOSING ERRORS

Planetable positions were located by resection and three-point fixes.

AUXILIARY SURVEYING METHODS

Standard topographic methods were used, and off lying features were located either by cuts or rod readings.

FORM LINES

All form lines on the section of Deer Island surveyed in 1939 are combined and shown on Sheet ^{T-4954} FL-1-1939, by Philip C. Doran. ✓

FURTHER EXAMINATION

The sheet is complete and needs no further work. *See Rev., Par. 1+6.* ✓

METHODS AND PROCEDURE

No deviation was made from standard practice. ✓

JUNCTION

Triangulation Station DOE-1925 was recovered, and the position determined from REEF, LET, and FAWN, is Lat. $54^{\circ} 53' + 258$ m., Long. $162^{\circ} 25' + 501$ m. The scaled position of DOE-1925 taken from a photostat of Topo Sheet T-⁴¹⁵⁷~~4175~~ (R. F. Luce, 1925) is Lat. $54^{\circ} 53' + 253$ m., Long. $162^{\circ} 25' + 492$ m. The topography of the shore line joined well. Good junction was made with T-6701 (P.C.D. 1939) at Triangulation Station HORN. Sheet T-6699 (P. C. D. 1939) joins the sheet on south over water. ✓

NAMES

Several local fishermen were interviewed, and they were unable to give any names not shown on the Coast Survey Chart of the area. New names assigned by field officers are penciled in on the sheet. Cape Bent was assigned to the first cape south of the marked Station DOE-1925, and Bent Bay to the small bay to the southeastward of the cape. Cape Paw was so named because it resembles a paw in shape. This cape is the landmark mentioned in this report. Paw Island is the small island about 2 or 3 hundred meters south of the cape. Paw Creek is the first creek east of the cape, and Paw River the next stream on east. Both enter into Paw Bay. ✓
 ✓ Let Island is so named because it has Triangulation Station LET-1936 upon it. ✓ Bun Rock resembles a bun. Mean Rock is named that because the waters surrounding it are generally rough. ✓

LIST OF PLANE TABLE POSITIONS

<u>OBJECT</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>HEIGHT</u>	<u>REMARKS</u>
DOE-1925	54°53' + 258m	162°25' + 501m	26	disk
GLEN-1939	54°51' +1684m	162°23' + 411m	165	"
CALD-1939	54°50' + 437m	162°20' + 471m	105	"
HORN-1939	54°49' +1476m	162°19' + 20m	4	"

PHOTOGRAPHS

There were no pictures taken.

COAST LINE

The coast line is well established, and not subject to change except changes due to volcanic action. There are no active volcanos on Deer Island.

MARSHES

There are no marshes on the sheet.

INSERTS

Two inserts were made upon the sheet, but in each case the shift was only in Longitude, so that no change had to be made in the projection. The insert for Umga Island was made to locate whitewashes on the island for control of close hydrography. Orientation was by laying down the computed azimuth UMGA-1901 to REEF-1911.

LET-1936 plotted 2 minutes east of its true position, was used for orientation on the insert for Sozavarika Island.

CAMP

Our camp was located on Deer Island to the southeastward from Fox Island. Our launch was anchored 300 meters off shore, and was fairly well protected, except from westerly winds. Once, a gale from the west caused the launch to drag two backed-up 90 pound anchors a distance of 300 meters. Fortunately, the dragging was parallel to the shore, and no damage was done. The water in the larger streams on Deer Island

is good until the Salmon start up to spawn, then small streams that Salmon can't get up have to be resorted to for water.

DECLINATION

Alidade and Declinatoire No. 242 were used for this work. Declinatoire was standardized on the line Lincoln Park Magnetic Station to mark Alki Point Lighthouse on 4/27/39 and again on 11/30/39. The value obtained for this line was $23^{\circ} 25'$ E on 4/27/39, and $23^{\circ} 24'$ E on 11/30/39.

See Rev., par. 3b

DATUM

The datum for this sheet is Unalaska Unadjusted.

Respectfully submitted

Glenn W. Moore
Glenn W. Moore
Ensign, C&GS
Ship DISCOVERER

APPROVED and FORWARDED

Geo. L. Bean
Geo. L. Bean
Lieutenant, C&GS
Commanding DISCOVERER

Remarks.

Decisions

	Remarks.	Decisions
1		545620
2	Do not LUK pending Board decision	545620
3	" " " "	
4	" " " "	545620
5	" " " "	
6	" " " "	
7	" " " "	
8		
9		545625
10	" " " "	545620
11	" " " "	"
12		545625
13	" " " "	545620
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27		

GEOGRAPHIC NAMES

Survey No.

T6698

Name on Survey

	A	B	C	D	E	F	G	H	K
	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	
✓ <u>Deer Island</u>									1
<u>Cape Bent</u> <u>Cape</u>									2
<u>Bent Bay</u> <u>Cove</u>									3
<u>Cape Paw</u> <u>Cape</u>									4
<u>Paw Island</u>									5
<u>Paw Creek</u>									6
<u>Paw Bay</u> <u>Cove</u> ^{2, ill}									7
<u>Paw River</u> ^{let small}									8
✓ <u>Sozavarika Island</u>									9
<u>Let Island</u>									10
<u>Bun Rock</u>									11
✓ <u>Umga Island</u>									12
<u>Fawn Island</u>									13
<u>Mean Rock</u>									14
✓ <u>Fawn Point</u>									15
									16
									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27

Names underlined in red approved
by L. Heck on 5/17/40

Also 7/9/42.

not acted upon by Board; there is no objection to their use if considered important enough to chart

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT } ~~No. H~~
 PHOTOSTAT OF } No. T T6698

{ 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	✓	ABC	Pages 1 & 2
26			
30			
40		swd	PS HH P.W.
62			
63			
82			
83			
88			
90			

RETURN TO

82	T.B. Reed
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✓ TBR

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY

REGISTER NO. 6698
FIELD NO. F

S. W. Alaska, Deer Island,
S. W. Side of Deer Island and Vicinity
Surveyed July - August 1939, Scale 1:20,000
Instructions dated March 18, 1938, and April 6, 1939
(DISCOVERER)

Plane Table Survey

Aluminum Mounted

Chief of Party - G. C. Jones
Surveyed by - G. W. Moore
Inked by - G. W. Moore
Reviewed by - Harold W. Murray, January 2, 1942
Inspected by - H. R. Edmonston

1. Junctions with Adjacent Surveys

The junctions on the ^{T-6499} north with T-4157 (1925), on the south with T-6701 (1939) and with the formline survey T-4954 (1939), covering the mainland of Deer Island, are very satisfactory.

2. Comparison with Prior Surveys

T-2556 (1901) and H-3306 (1911), scales 1:140,000 and 1:40,000

These surveys, respectively, contain a broken line outlining the shoreline of (1) Umga Island and (2) Deer Island. This shoreline is highly generalized, indicates no associated rocks or off-lying islets, and merits no further consideration.

3. Comparison with Chart 8701 (New Print date 10-9-41)

8703	("	"	"	8-14-40)
8860	("	"	"	11-25-40)

a. Topography

The present survey was applied to the chart prior to this review. The few off-lying rock and islet details retained from early reconnaissance sources were considered in relation to the hydrography in the review of H-6487 (1939-40) and H-6488 (1939-40) and need not be reconsidered here.

b. Magnetic Observations

The magnetic meridian determined at triangulation station UMGA (Lat. 54°48', Long. 162°43') with alidade and declinatoire No. 242 measures 19°32' E., which value is approximately 2°17' west of the charted value on Chart 8701. The instrument was standardized at the Seattle Lincoln Park Magnetic Station and has an approximate error of 21' E. This station is now considered unsuitable for reliable observations because of the discovery of a nearby garbage dump containing about 500 tin cans.

4. Compliance with Project Instructions

Satisfactory.

5. Condition of Survey

Satisfactory.

6. Additional Field Work Recommended

Mention is made that the shoreline of Umga Island was not rodded (see insert on sheet). T-2556 (1901) contains a broken line outline of this island on a scale of 1:140,000. This information is not entirely satisfactory for large scale chartings of 1:80,000 or more. The island is approximately 250 feet high, 630 meters long and 280 meters wide. *2/2*

7. Superseded Surveys

T-2556 (1901) in part
H-3306 (1911) " "

Examined and approved:

Robert W. Gray
Chief, Surveys Section

J. S. Borden
Chief, Division of Charts

L. P. Raynor
Chief, Section of Hydrography

G. W. Rude
Chief, Division of Coastal Surveys