6701

Form 504
Rev. Dec. 1933

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

DESCRIPTIVE REPORT

Topographic } *Sheet No.* T-6701
~~*Hydrographic*~~

State S.W. ALASKA

LOCALITY
Deer Island
~~SANDMAN REEFS~~
Sandman Reefs to Midun Island.
~~S. W. ALASKA~~

193 9

CHIEF OF PARTY

G. C. Jones

U. S. GOVERNMENT PRINTING OFFICE: 1934

6701

OS

Applied & Ch'd 8703 - June 1940 - D.S.O.

" " " 8860 July " O.K.D.O. ✓

" " " 8802 Nov. " S.M.A.

" " " 8705 June 1942 A.F.A.

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. J-39

T6701

REGISTER NO. T-6701

State Alaska SW Deer Island

General locality ~~Alaska Peninsula (South Side)~~

Locality Sandman Reefs to Midway Island

Scale 1: 20,000 Date of survey July, 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~~

~~Contour, Approximate contour~~, Form line interval 50 feet

Instructions dated March 18, 1938, 19
April 6, 1939

Remarks:

GPO

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET J-39 (T- 6701)

SANDMAN REEFS, 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° 43' N and 54° 51' N, and longitudes 162° 09' W and 162° 20' W. The sheet includes a portion of the shore of Deer Island extending from the most southerly point of Deer Island, Fawn Point, northeastward for a distance of two miles to marked hydrographic signal ACE (54° 50.7' N 162° 16.5' W); the southwestern section of Midun Island; the island on which triangulation station MAN-1936 (54° 45.5' N- 162° 14.7' W) is located; the group of islands at triangulation station HUNT-1936 (54° 48.7' N 162° 19.4' W) and a group of six small islands to the east and northeast of MAN-1936. Topographic signal BIG (54° 47.8' N - 162° 09.0' W) is located on a large island at the very edge of the sheet. As this signal will appear in the area of the adjoining T-6766 (1940) topo sheet to the east, and be in a better position for delineation of the shore line the topography was

not done, and should be done when the easterly sheet is done.

The north end of this sheet joins sheet H-39 (T-6700) at signals ACE, on Deer Island, and JAM and ROT on Midun Island.

Topo sheet F-39 (T-6698) adjoins this sheet on the west side and makes shore line junction at marked hydrographic signal HORN (54°49.8' N 162° 19.0' W).

At the south end, this sheet joins Sheet K-39 (T-6702) along the 54° 43' parallel.

GENERAL DESCRIPTION

The small portion of Deer Island shown on this sheet is similar to the rest of the island in that it is covered with a series of grassy peaks of nearly equal height, has no trees, and the shore is steep and rocky and fringed with rock ledges. There are no man-made structures on this section of the island. Fresh water can be secured at various streams along the shore.

The southwestern portion of Midun Island shown here is rocky, but not so steep as the section shown on adjoining sheet H-39. No fresh water was found on this island, but a small shack would indicate that some one has inhabited the island for short periods of the year. Future soundings and a close study of the small bight at this shack may show that a camp party for launch hydrography could be located here, good heavy ground tackle and fresh water being supplied by the ship. The topography of these islands and the prevailing southeasterly swell make good camp sites hard to find.

Triangulation Station HUNT-1936 is located on a rough, steep, grass-covered island one mile south of Deer Island. The shore is rocky and very steep in all parts of the island.

MAN-1936 is located on a low, flat grass island extending

in a Northeast-Southwest direction. The shores are steep on the north and west sides and of gentle slope from the south. The cabin of a fox rancher was found as shown, but no water was noticed on this island.

NIP is located on a low, small, grass-covered island steep on the southerly side, but of gentle slope to the north.

NAT is on a small but noticable high, steep island. The top is covered with some grass.

The small islands near MAN-1936 are low, small, bare rock islands.

The water surrounding all the islands shown on this sheet is very deep right up to the shore. When anchoring the HELIANTHUS we noticed that the edge of the kelp which grows close in to most of these islands was in about 8 fathoms of water.

LANDMARKS

There are no objects in this vicinity which should be classed as landmarks for offshore use, but the two peaks shown as 1930 feet and 1750 feet should be shown on large scale chart of Deer Island, such as chart 8703. A list of landmarks is made part of this report.

CONTROL

Three good second-order triangulation stations, MIDUN-1936, HUNT-1936 and MAN-1936, all in ~~Capt~~ Jack. Senior's 1936 scheme, were recovered and furnished the basis control for this sheet. I would like to state that this scheme of triangulation covering the Sandman Reef area was well laid out, and furnished excellent control for the five sheets of topography done this year in this vicinity. Recovery of the triangulation stations was rather easy, as most of the signals were still standing, and were in good condition, needing only a little signal cloth for use as hydrographic signals.

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

TRAVERSES

No traverses were run on this sheet as everything was located by direct cuts from triangulation stations, resections, and independent plane table setups.

AUXILIARY METHODS

Standard plane table methods of cuts, resections and three-point fixes were used throughout this sheet. Rocks near shore were located by direct rod readings, while the reefs on the eastern part of the sheet were located bycuts from triangulation stations with check cuts from numerous other setups.

FORM LINES

Form lines were drawn and checked from off shore for all the islands on the sheet with the exception of the small section of Deer Island. 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), H-39 (T-6700), and this sheet, it was thought advisable to make a sheet covering all of the Island south of sheet T-4157 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 checked 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, covering the entire area of the projection. As mentioned under LIMITS, the topography of the island

on which topographic signal BIG is located was not done. This island, of fair size, lies at the edge of this sheet in a poor position for accurate delineation of the shore line. As the adjoining sheet of topography to the east will overlap this sheet for control signals, it is planned to do the topography of this island on that sheet. T-6766 (1940)

PROCEDURE

Standard practice was used throughout this sheet.

JUNCTION

At the north end of the sheet, proper junctions were made with sheet H-39 (T-6700) at stations JAM and ROT on Midun Island and marked topo signal ACE on Deer Island.

Sheet F-39 (T-6698) adjoins this sheet to the west, and makes a shore line junction at marked signal HORN on Fawn Point, Deer Island.

This sheet joins sheet K-39 (T-6702) along the 54-43 parallel. There is no shore line junction along that line.

NAMES

MIDUN and DEER Islands are named as such on the present Coast and Geodetic Survey charts of this vicinity.

This year there were five topographic sheets made in this Sandman Reef area. All of these islands are small, and although some of them (GOOSE, MIDUN and the island on which MAN-1936 is located) show signs of former inhabitants, none except Chernabura, are now inhabited. Axel Bendixen, lessee of Chernabura, lives at King Cove and makes infrequent trips to the island. During the field season, very few contacts were made with people familiar with these islands. I had planned to combine all the sheets on a sketch at smaller scale towards the end of the season, and then interview Bendixen and various fishermen and cannery boats basing at King Cove to obtain names and information about this area.

This plan was not accomplished this year so I plan to make the sketch before sending in these sheets to the Washington Office and obtain the desired information next season. As the DISCOVERER will work in this area, and have numerous parties on these islands, the information can readily be obtained.

PLANE TABLE POSITIONS

A list of plane table positions of prominent objects and recoverable stations is furnished. Although most of these objects are described on regular form 524, it was thought that a grouping in a list would not be amiss.

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 Stations MIDUN, MAN and HUNT with declinatoire No. 161. Towards the end of the season, Station MAN was occupied with the new transit magnetometer No. 38976.

The scaled values of declination were:

MIDUN	-1936	16-41 E
HUNT	-1936	17-06 E
MAN	-1936	17-02 E

The uncorrected value at MAN as determined with the transit magnetometer was 17° 16' 56.3" E.

STATISTICS

Statute Miles of Shore Line- - - - - - - - - - - - -6.7

Area Surveyed in Square Statute Miles- - - - - - -.22*

*This covers the land area only of the islands. The section of Deer Island is covered on Form Line Sheet FL-1-1939. The sheet in its

T-4954

entirety covers all the land and visible dangers in an area of about 48 square nautical miles.

Respectfully submitted,

Philip C. Doran.

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

APPROVED AND FORWARDED:

Geo. L. Bean

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

PLANE TABLE POSITIONS

OBJECT & DESCRIPTION	LAT.	D.M.	LONG.	D.P.	HEIGHT	REMARKS
HORN, Disc.Whitewash	54-49	1476	162-19	20	4	Described on Form 524
QUE, Whitewash rock on 80 foot rock	54-49	1640	162-18	708	12	" " "
BE, Disc, Whitewash	54-44	1443	162-12	462	12	" " "
REB, Highest point, pat of cement, crossed banners	54-45	1208	162-13	265	10	"" " "
BEL, Highest point, pat of cement, crossed banners	54-45	1364	162-12	396	12	" " "
1930, Peak on Deer Id.	54-51	82	162-19	78	1930 ft.	On Landmark Form
1750, Peak on "	54-50	680	162-18	471	1750 ft.	" " "

Form 567
Rev. March 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

TO BE CHARTED / ~~NO BE CHARTED~~ } STRIKE OUT ONE

Aberdeen, Washington February 15, 1940

I recommend that the following objects which have (~~have not~~) been inspected from seaward to determine their value as landmarks, be charted on (~~deleted from~~) the charts indicated.

The positions given have been checked after listing.

Geo. L. Bean
Geo. L. Bean *Chief of Party.*

GENERAL LOCALITY Deer Island Sandman Reefs SW Alaska

NAME AND DESCRIPTION	POSITION					METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	LATITUDE ° '	LATITUDE D. M. METERS	LONGITUDE ° '	LONGITUDE D. P. METERS	DATUM (A)						
PEAK, the northeasterly of two sharp points of equal height--(162 ft.) on Cherni Island, Triangulation Station CHER-1936.	54 37	1607.5	162 22	115.9	Unalaska	Tri.	1936		x	x	~~8860~~ 8802
*PEAK, sharp pyramidal, southerly end Deer Island. Height 1985 feet. Triangulation Station SEA-1939.	54 51	1107	162 17	865	"	"	1939	x	x	x	~~8860~~ 8802 8703
SLIDE, gray landslide extending from SLY(T-6700) up east side of *PEAK above mentioned, to very near the top.	54 51	1114	162 16	420	"	Topo Sheet K-39(T-6700)	1939	x			8703
PEAK, conical, Deer Id. Ht. 1968ft. (Peak "E"-1939)	54 54	1135 ~~1152~~	162 16	692 ~~715~~	"	Tri.	1939	x	x		~~8860~~ 8703
PEAK, sharp, Deer Id., Height 1930' (Peak "A"-1939)	54 51	82	162 19	55 ~~76~~	" Tri.	Topo Sheet K-39(T6701)	1939	x	x		~~8860~~ 8703
PEAK, sharp, " " " 1750'	54 50	880	162 18	471	"	Topo Sheet K-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	335	162 15	598	"	Topo Sheet K-39(T6702)	1939		x	x	~~8860~~ 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.

U. S. GOVERNMENT PRINTING OFFICE

	Remarks	Decisions
1		545620
2		"
3		"
4		"
5	Submitted to Board. see G.N. 43, 1940. Islet on 8860 : near 48·7/19·4'	"
6		"
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M 234

GEOGRAPHIC NAMES

Survey No.

T6701

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	K	
Deer Island										1
Sandman Reefs										2
Midun Island										3
Fawn Pt.										4
High I.		USHB. decision			5/27/42					5
Hunt I		"		"	"	"				6
										7
		L. Heck		5/16/40						8
			Also	7/9/42						9
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M 234

FORM M-238

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

~~No. H~~
No. T T6701

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	✓ Comdr. Senior		Page 3
25	✓	[illegible]	Pages 2 + 3
26			
30			
40	✓ OWS	[illegible]	Page 6 P.W.
62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed

✓ JBC

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY — REGISTER NO. 6701
Field NO. J

S. W. Alaska, Deer Island, Sandman Reefs to Midun Island
Surveyed July 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 - P. C. Doran
Inked by - P. C. Doran
Reviewed by - Harold W. Murray, January 3, 1942
Inspected by - H. R. Edmonston

1. Junctions with Adjacent Surveys

The junctions on the southwest with T-6698 (1939), on the north with T-6700 (1939) and on the mainland of Deer Island with the formline survey T-4954 (1939) are very good.

The shoreline of the island at signal BIG in Lat. 54°48', Long. 162°09' is surveyed on T-6766 (1940)

2. Comparison with Prior Surveys

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

This hydrographic sheet contains a highly generalized outline of Deer Island and reveals no information which merits specific consideration in this review.

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

a. Topography

The present survey was applied to the chart in advance of the review. The remaining details consisting of the two isolated sunken rocks in Lat. 54°49', Long. 162°14' which originate with miscellaneous sources prior to 1901 were disposed of in the review of H-6487 (1939-40).

b. Magnetic Observations

The magnetic observations agree closely with the charted value. (See Descriptive Report, page 6)

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:

Robert W. Knapp
Chief, Surveys Section

F. B. Bowman
Chief, Division of Charts

J. P. Rayner
Chief, Section of Hydrography

G. S. Rude
Chief, Division of Coastal Surveys