DESCRIPTIVE REPORT

Topographic Sheet No. T-6701

U.S. COAST & GEODETIC SURVEY
LIBRARY & ARCHIVES

MAR 14 1940

Sec. No. ___

State ___ W. ALASKA

LOCALITY Deer Island
SANDMAN REEF
Sandman Creek to Main Island, ___ W. ALASKA

1939

CHIEF OF PARTY
G. C. Jones

U.S. GOVERNMENT PRINTING OFFICE: 1934
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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

REGISTER NO. T-6701

T6701

State

General locality

Alaska

Alaska Peninsula (South Side)

Locality

Sandman Reef to Michael 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 NAV to ground tent topographic

Contour Approximate contour, Form line interval .50 feet

Instructions dated March 18, 1938 April 6, 1939

Remarks: ____________________________________________

_________________________
DESCRIPTIVE REPORT

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

SANIMAN 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 AGE (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° 49.7' N 162° 14.4' 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 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 bright 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. Senior's 1936 scheme, were recovered and furnished the basic 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 by cuts 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.

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 declinometer No. 161. Towards the end of the season, Station MAN was occupied with the new transit magnetometer No. 39976.

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

Respectfully submitted,

[Signature]
Philip C. Doran,
H. & G. Engineer,
Ship DISCOVERER.

APPROVED AND FORWARDED:

[Signature]
Geo. L. Bean,
H. & G. Engineer,
Commanding DISCOVERER.
<table>
<thead>
<tr>
<th>OBJECT &amp; DESCRIPTION</th>
<th>LAT</th>
<th>D.M.</th>
<th>LONG.</th>
<th>D.P.</th>
<th>HEIGHT</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORN, Disc. Whitewash</td>
<td>54-49</td>
<td>1476</td>
<td>162-19</td>
<td>20</td>
<td>4*</td>
<td>Described on Form 524</td>
</tr>
<tr>
<td>QUE, Whitewash rock on 80 foot rock</td>
<td>54-49</td>
<td>1640</td>
<td>162-18</td>
<td>708</td>
<td>12</td>
<td>&quot;</td>
</tr>
<tr>
<td>EE, Disc. Whitewash</td>
<td>54-44</td>
<td>1443</td>
<td>162-12</td>
<td>462</td>
<td>12</td>
<td>&quot;</td>
</tr>
<tr>
<td>REB, Highest point, pat of cement, crossed banners</td>
<td>54-45</td>
<td>1208</td>
<td>162-13</td>
<td>265</td>
<td>10</td>
<td>&quot;</td>
</tr>
<tr>
<td>BEZL, Highest point, pat of cement, crossed banners</td>
<td>54-45</td>
<td>1364</td>
<td>162-12</td>
<td>396</td>
<td>12</td>
<td>&quot;</td>
</tr>
<tr>
<td>1930, Peak on Deer Id.</td>
<td>54-51</td>
<td>82</td>
<td>162-19</td>
<td>78</td>
<td>1930 ft.</td>
<td>On Landmark Form</td>
</tr>
<tr>
<td>1750, Peak on &quot;</td>
<td>54-50</td>
<td>680</td>
<td>162-18</td>
<td>471</td>
<td>1750 ft.</td>
<td>&quot;</td>
</tr>
</tbody>
</table>
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks, be charted on the charts indicated.

The positions given have been checked after listing.

<table>
<thead>
<tr>
<th>GENERAL LOCALITY</th>
<th>NAME AND DESCRIPTION</th>
<th>POSITION</th>
<th>DATUM</th>
<th>METHOD OF LOCATION</th>
<th>DATE OF LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deer Island, S.W. Alaska</td>
<td>PEAK, the northeasterly of two sharp points of equal height (189 ft.) on Chorn Island. Triangulation Station CHK-1936.</td>
<td>54°37' 1907.5&quot; 163°22' 113.9&quot; Unalaska Tri.</td>
<td>1936</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Deer Island, S.W. Alaska</td>
<td>&quot;PEAK, sharp pyramidal, southerly and Deer Island. Height 1938 feet. Triangulation Station SEA-1936.</td>
<td>54°51' 1107&quot; 162°17' 205&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>1939</td>
</tr>
<tr>
<td>Deer Island, S.W. Alaska</td>
<td>SLIDE, gray landslide extending from SLY(T-8700) up east side of &quot;PEAK above mentioned, to very near the top.</td>
<td>54°51' 1114&quot; 162°16' 420&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Deer Island, S.W. Alaska</td>
<td>Peak &quot;E&quot; -1937</td>
<td>54°54' 1159&quot; 162°16' 692&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Deer Island, S.W. Alaska</td>
<td>Peak &quot;A&quot; -1937</td>
<td>54°54' 88&quot; 162°19' 78&quot;</td>
<td>Tri</td>
<td>&quot;</td>
<td>1939</td>
</tr>
<tr>
<td>Deer Island, S.W. Alaska</td>
<td>PEAK, sharp, &quot; &quot;</td>
<td>54°50' 660&quot; 162°18' 471&quot;</td>
<td>J-10(T-7001) 1939</td>
<td>x</td>
<td>8703</td>
</tr>
<tr>
<td>Deer Island, S.W. Alaska</td>
<td>PEAK, rounded knob, highest point on Goose Island, 121 feet high. (Hi.-Sheet E-39 (T-7002)</td>
<td>54°41' 235&quot; 162°15' 505&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

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.
<table>
<thead>
<tr>
<th>Remarks</th>
<th>Decisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5745620</td>
</tr>
<tr>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td><strong>Submitted to Board: 800 G.N. 43, 1940.</strong></td>
</tr>
<tr>
<td>5</td>
<td><strong>Islet on 8860: near 48.7/19.4</strong></td>
</tr>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td></td>
</tr>
</tbody>
</table>

23°
<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deer Island</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sandman Reefs</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Midun Island</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fawn Pt.</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High I</td>
<td>5</td>
<td></td>
<td></td>
<td>USG. decision 5/27/42</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hunt I</td>
<td>6</td>
<td></td>
<td></td>
<td>Heck 5/16/40</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7</td>
<td></td>
<td></td>
<td>Also 7/9/42</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF
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.

<table>
<thead>
<tr>
<th>ROUTE</th>
<th>Initial</th>
<th>Attention called to</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>V</td>
<td>Page 3</td>
</tr>
<tr>
<td>25</td>
<td></td>
<td>Pages 2 + 3</td>
</tr>
<tr>
<td>26</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>V</td>
<td>Page 6</td>
</tr>
<tr>
<td>62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63</td>
<td></td>
<td></td>
</tr>
<tr>
<td>82</td>
<td></td>
<td></td>
</tr>
<tr>
<td>83</td>
<td></td>
<td></td>
</tr>
<tr>
<td>88</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

RETURN TO

82 T. B. Reed

\[Signature\]
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 dis-
posed 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. King
  Chief, Surveys Section

- Chief, Division of Charts

- Chief, Section of Hydrography

- Chief, Division of Coastal Surveys