DESCRIPTIVE REPORT

Topographic
Hydrographic

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
MAR 3 1941
ACC. NO. ..............

STATE
Alaska

LOCALITY
(SOUTHERN HALF KAGAMIL ISLAND
ISLANDS OF FOUR MOUNTAINS
ALEUTIAN ISLANDS, ALASKA

1940
CHIEF OF PARTY
J. E. Peters

DECLASSIFICATION BY NOAA
PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3.3 (a), EXECUTIVE ORDER 12356
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. B-140

REGISTER NO. T6744

State: Alaska. Alaskan Islands

General locality: Islands of Four Mountains

Locality: Eganil Island (South End)

Scale: 1:20,000. Date of survey: June, July, 1940.

Vessel: EXPLORER

Chief of party: J. H. Paters

Surveyed by: C. J. Wagner

Inked by: C. J. Wagner

Heights in feet above MHW to grade

Contour Approximate contour, Form line interval 100 feet

Instructions dated: February 3, 1938

Remarks:

...
DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET B-40

SOUTHERN HALF KAGAMIL ISLAND

ISLANDS OF FOUR MOUNTAINS

ALSEUTIAN ISLANDS, ALASKA

SEASON OF 1940

- O -

U.S.C. & G.S.S. EXPLORER

J. H. Peters, Comdg.
DESCRIPTIVE REPORT
to accompany
TOPOGRAPHIC SHEET B-40
U.S.C. & G.S.S. EXPLORER
J. H. Peters, H. & G. E.
Chief of Party

INSTRUCTION DATED
February 21, 1940, referring to instructions issued
to Surveyor and Pioneer under date of February 3, 1938, project
H218.

LIMITS
This sheet covers the southern half of Kagamil Island,
Islands of Four Mountains, Aleutian Islands, Alaska.

GENERAL DESCRIPTION OF COAST
This half of Kagamil Island has a large mountain at its
center, with steep upper slopes, the slope near the base making
a somewhat abrupt change to large gently sloping or flat areas.
These lower slopes generally terminate in rock bluffs or grass
covered and dirt bluffs. Lower slopes of the mountain are grass
and tundra covered, while the upper slopes are usually bare rock.

The shore at the south end of the island is very rough
lava and boulders, the lava being most prominent in vicinity of
triangulation station LU 1940.

The cliffs to west and north of triangulation station
PALM 1940 are almost vertical, and extend into the water with no
talus or ledge at the water line.

The cliffs at the southeast end of the island are
broken in many places by caves.

The shoreline from signal Dog to signal Hit is
backed by low dirt bluffs.
The shoreline is generally fringed by kelp, outer limits of which was located by hydrographic party.

LANDMARKS FOR CHARTS

See form 567. (attached)

CHARACTER OF CONTROL

The control is from the 1938 triangulation of the U.S.C. & G.S.S. PIONEER and the 1940 triangulation of the U.S.C. & G.S.M.V. E. LESTER JONES, and is considered adequate to rigidly control the survey.

SURVEY METHODS

Standard survey methods were used. Three point fixes and resection furnished sufficient control to eliminate the necessity for traversing.

AUXILIARY SURVEY METHODS

From northwest limit of the sheet to signal Nee, the cliffs were sheer into the water and planable set-ups were non-existent. Accordingly, sextant fixes and cuts were taken and plotted on the sheet to locate signals Nee, Fo and Cut and the shoreline sketched between these signals from a small boat. Due to the regularity of the shoreline in this vicinity, the shoreline is believed to be shown on the sheet without appreciable error.

MAGNETICS

Declinometer observations were taken at the following stations with the tabulated results:

<table>
<thead>
<tr>
<th>Station</th>
<th>Date</th>
<th>Time</th>
<th>Variation</th>
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<tbody>
<tr>
<td>LU 1940</td>
<td>June 13, 1940</td>
<td>11:15 a.m.</td>
<td>16° 28'</td>
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<tr>
<td>CAP 1940</td>
<td>June 11, 1940</td>
<td>2:30 p.m.</td>
<td>13° 35'</td>
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<tr>
<td>WAL 1940</td>
<td>June 10, 1940</td>
<td>10:00 a.m.</td>
<td>10° 00</td>
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These observations were made with declinometer with alidade no. 254, which was compared with transit declinometer no. 38979 and compass declinometer no. H-11 on April 13, 1940 as follows:

- Variation by transit declinometer no. 38979 = 23° 05.6' E
- Variation by compass declinometer no. H-11 = 23° 14.8' E
- Variation by declinometer no. 254 = 23° 33' E
FORM LINING

The form lining was accomplished mainly from offshore, sextant cuts being taken to supplement the few elevations that could be obtained by the planetable.

JUNCTIONS WITH ADJACENT SHEETS

This sheet joins sheet A-40 along the north limits satisfactorily.

COMPARISON WITH PUBLISHED CHART

Due to small scale of chart 8802 no detailed comparison is made.

The island is charted about three and one-half miles east of its true position. (Correct chart shows correct position)

See report for sheet A-40 for discussion of hachuring of island as shown on chart 8802.

LIST OF GEOGRAPHIC NAMES

No new names assigned to this area. The name of the island was taken from chart 8802.

GENERAL NOTE

The only stream of fresh water that appears to have continuous flow was near the shack, near northeast end of this sheet. (signal Shack)

Mr. Paul Willis, of Dutch Harbor, who leases Kagamil Island, informs this party that there is a lake on the flat to east of triangulation station MEAL and another lake in latitude 52° 59.5' and longitude 169° 42.6'. These lakes were not seen by the topographic party.

STATISTICS

Statute miles of shoreline = 8.9

Area in square statute miles = 7.8
Respectfully submitted,

Clifton J. Wagner
Jr. E. & G. E.,
U.S.C. & G.S.S. EXPLORER.

APPROVED AND FORWARDED

J. H. Peters,
H. & G. E., Chief of Party,
U.S.C. & G.S.S. EXPLORER.

Approval by Chief of Party

Topographic sheet B-40 has been inspected and approved by me. The field work was done under my supervision. No additional work is considered necessary.

J. H. Peters,
H. & G. E., Chief of Party,
U.S.C. & G.S.S. EXPLORER.

(Handwritten note)

Office in Charge

(Canada Processing Office)
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525248
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Handwritten note: "L. H. com 2/27/42"
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.

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<th>GENERAL LOCALITY</th>
<th>NAME AND DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD OF LOCATION</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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<td>52 59</td>
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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.
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT
PHOTOGRAPH

No. T 6744
(Confidential)

received Mar. 3, 1941
registered Mar. 3, 1941
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.

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RETURN TO

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/ Signature
CONFIDENTIAL

DIVISION OF CHARTS
SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY

Aleutian Islands, Islands of Four Mountains,
Kagamil Island (South End)
Surveyed in June and July 1940; Scale 1:20,000
Instructions dated February 3, 1938

Plane Table Survey
Aluminum Mounted

Chief of Party - J. H. Peters
Surveyed by - C. J. Wagner
Inked by - C. J. Wagner
Reviewed by - R. H. Carstens
Inspected by - H. R. Edmonston

1. Adjoining Surveys
The present survey joins T-6743 (1940) on the north.

2. Comparison with Prior Surveys
There are no prior surveys of the area by this Bureau.

3. Comparison with Chart 8602 (latest print date 1-18-43)
a. Topography
The charted topography originates with the present survey and, because of the small scale of the chart, only the generalized outline of the shore is shown.

b. Aids to Navigation
There are no charted aids to navigation within the limits of the present survey.

c. Magnetic Meridian
A difference of as much as 6-1/2 degrees was observed in the magnetic meridians at three stations. The difference with the charted value was as much as 3-1/2 degrees. This divergence is probably caused by local attraction and is also apparent in the topographic survey to the north.
4. **Condition of Survey**
   Satisfactory.

5. **Compliance with Instructions for the Project**
   Satisfactory.

6. **Additional Field Work Recommended**
   Should the opportunity occur additional magnetic meridian observations, possibly with a declinometer, would be desirable in order to add to the information concerning the local attraction in this area.

7. **Superseded Surveys**
   None.

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**Examined and approved:**

- **Chief, Surveys Branch**: [Signature]
- **Chief, Division of Charts**: [Signature]

- **Chief, Section of Hydrography**: [Signature]
- **Chief, Division of Coastal Surveys**: [Signature]