DESCRIPTIVE REPORT

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
MAR 3 1941

State
Alaska

LOCALITY
Ynaska Island,
Alaska

1940
CHIEF OF PARTY
J. H. Peters

DECLASSIFICATION BY NOAA
Pursuant to DOC Systematic Review
Guidelines as described in Section
3.3 (a), Executive Order 12356
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-40

REGISTER NO. T6751

State: Aleutian Islands
General locality: Islands of Four Mountains
Locality: Yunaika Island

Scale: 1:20,000 Date of survey: July & September, 1940
Vessel: U.S.C.&G.S.S. EXPLORER
Chief of party: J. H. Peters
Surveyed by: C. J. Wagner, H. A. Paton, John Laskowski
Inked by: C. J. Wagner

Heights in feet above M. H. W. to ground: Art on top of streams

Contour: approximate contour, Form line interval: 100 feet

Instructions dated: February 5, 1938

Remarks: ..............................................................................
DESCRIPTIVE REPORT

to accompany

TOPOGRAPH SHEET H-40

YUNASKA ISLAND, ALASKA

SEASON OF 1940

- o -

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

J. H. Peters, Comdg.
DESCRIPTIVE REPORT

to accompany

TOPOGRAPH SHEET H-40

YUNASKA ISLAND, ALASKA

SEASON OF 1940

INSTRUCTIONS DATED

February 21, 1940 referring to instructions issued to
SURVEYOR and PIONEER under date of February 3, 1938, project H-218.

LIMITS

This sheet covers the central portion of Yunaska Island,
Aleutian Islands, Alaska.

GENERAL DESCRIPTION

The portion of Yunaska Island covered by this sheet is gen-
erally flat to gentle slopes from the bluff backing the shoreline
up to the base of the mountains. These flats are occasionally
broken by hills and knolls. Almost every hill is crescent shaped,
with a sharp curved ridge forming the highest part.

The bluff backing the beach in vicinity of signal "WOE" is
black cinders, as is the bluff to southeast of triang. station
"END" 1939, and the bluff to east & west of triang. sta. "EASY" 1939.

The island is generally grass covered below 1000 ft. elev. and
the grass is so thick and matted on the lower flats, that hiking
across country is difficult.

LANDMARKS FOR CHARTS

See form 567.
CHARACTER OF CONTROL

The control is from the triangulation executed by the U. S. C & G. S. S. PIONEER in 1939 and 1940.

SURVEY METHODS & TRAVERSES

A traverse was run from signal "CYL" east to end of sheet. This traverse was closed on a point located by traverse by H. A. Paton, sheet G-40, and the error between the two points was 5 meters. A mean position was taken, and no adjustment of shoreline and signals made.

Due to heavy swell on the south shore of the island, landings on the beach to accomplish the shoreline could not be made. Therefore the signals were cut in by sextant angles, using triangulation stations for fixes, with launch stopped for each fix. The off-lying rocks and supplemental points along the beach were also cut in. Then the shoreline was sketched from a small boat between the located signals and intermediate points.

The remainder of the shoreline on the sheet was located by using three point fixes and resection for control.

MAGNETICS

Declinometer observations were made at following stations with the following results:

<table>
<thead>
<tr>
<th>Station</th>
<th>Date</th>
<th>Time</th>
<th>Variation</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;END&quot;</td>
<td>July 30, 1940</td>
<td>12:05 p.m.</td>
<td>12°37' E</td>
</tr>
<tr>
<td>&quot;HAM&quot;</td>
<td>Sept. 4, 1940</td>
<td>10:45 a.m.</td>
<td>15°03' E</td>
</tr>
</tbody>
</table>
These observations were made with declinatoire with alidade
A-254, which was compared with transit declinometer no. 38979 and
compass declinometer no. H-11, on April 12, 1940, as follows:

Variation by transit declinometer No. 38979 = 23° 05'.6E
" compass " No. H 11 = 23° 14'.8E
" declinatoire " No. H 254 = 23° 33'.8 E

FORM LINING

The form lining was accomplished mainly from offshore.

JUNCTIONS WITH ADJACENT SHEETS

This sheet joins sheet G-40 along this sheet's eastern limits
and sheet of M. V. E LESTER JONES, along this sheet's western limits
with satisfactory junctions.

COMPARISON WITH PUBLISHED CHART

Due to small scale of Chart 8802, no detailed comparison was
made.

LIST OF GEOGRAPHIC NAMES

The bight on the north shore to southwest of station "END", 1939
was called "CRATER ANCHORAGE" by all survey parties working in vic-
inity.

The bight on the south shore between triang. stations "SEAL", 1940
and "OUTER", 1940 was referred to as "SOUTH ANCHORAGE" by this party.

GENERAL

There was no water noticed in any of the drainage lines on north
shore of the island, except for a water fall about 75 meters west of
signal "COW", which was noted only after a rain.
On the south side only one water fall, signal "WATER FALL", was noted. Just west of this water fall, seepage of water from the bluff was noted, and there was a thin water fall just west of "JUN", but it probably is dry except after a rain. The triang. party of the U. S. C. & G. S. S. PIONEER that established station "POND" 1939 informed this party that there is a large, shallow lake in approximate position as indicated on the sheet.

STATISTICS

Statute miles of shoreline = 15.0

Area in sq. statute miles = 22.6

Respectfully submitted,

Clifton J. Wagner
Jr. H. & G. Engr.,

APPROVED AND FORWARDED:

J. H. Peters
Commanding Officer
U.S.C. & G.S.S. EXPLORER
APPROVAL BY CHIEF OF PARTY

Sheet H-40 has been inspected and approved by me. The field work was done under my supervision, and no additional work is considered necessary.

J. R. Peters, H. & G. E.,
Chief of Party.

Forwarded

Officer in Charge,
Seattle Processing Office.
<table>
<thead>
<tr>
<th>Remarks</th>
<th>Decisions</th>
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<td>Submitted to U.S.G.B. on to use pending its decision.</td>
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<td>Name on Survey</td>
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<td>-------------------------</td>
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<tr>
<td>Crater Anchorage</td>
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<tr>
<td>South Anchorage</td>
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<tr>
<td>Yunaska Island</td>
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L. Heck 3/20/44
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.

<table>
<thead>
<tr>
<th>GENERAL LOCALITY</th>
<th>NAME AND DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
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<tbody>
<tr>
<td>Aleutian Islands</td>
<td>&quot;SHARP HILL&quot; - Signal From 1939</td>
<td>52 37</td>
<td>1363.2 170 43 644.4</td>
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<tr>
<td>Yunaska Island</td>
<td>&quot;CABIN&quot; - Signal Cabin, Sheet H-1052</td>
<td>40 1456 170 42 655</td>
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<tr>
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<td>&quot;PINNACLE-Triang. Pinn 1940&quot;</td>
<td>52 34</td>
<td>695.2 170 44 745.4</td>
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<td>&quot;ROCK CHIMNEY&quot; - Signal Pizza S.H-4082</td>
<td>35 1575 170 42 780</td>
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</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.
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOGRAPH

No. T

T6751
(Confidential)

received Mar. 3, 1941
registered Mar. 5, 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

82 T. B. Reed

✓ 9030
Aleutian Islands; Island of Four Mountains, Yunaska Island
Surveyed July - September 1940; Scale 1:20,000
Instructions dated February 3, 1938

Plane Table Survey

Chief of Party - J. H. Peters
Surveyed by - C. J. Wagner, H. A. Paton, John Laskowski
Inked by - C. J. Wagner
Reviewed by - R. H. Carstens
Inspected by - H. R. Edmonston

1. Junctions with Contemporary Surveys
   A satisfactory junction was effected with T-6752 (1940)
   on the west and T-6750 (1940) on the east.

2. Comparison with Prior Surveys
   No prior surveys of the area have been made by this Bureau.

3. Comparison with Chart 8802 (Latest print date 1-29-42)
   The generalized topography shown on the chart originates
   with miscellaneous sources, possibly old Russian surveys,
   and should be superseded by the present survey.

4. Condition of Survey
   a. Topography.
      The inking of the shoreline and other topographic
      features was well done.
   b. Magnetic Meridians.
      Satisfactory declinatoire observations at two
      stations were obtained.

5. Compliance with Instructions
   Satisfactory.

6. Additional Field Work Recommended
   None.
7. Superseded Surveys

None.

Examined and approved:

[Signatures]

Robert W. Knox
Chief, Surveys Section

J. Borden
Chief, Division of Charts

Fred. L. Peacock
Chief, Section of Hydrography

[Signatures]

Chief, Division of Coastal Surveys