DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: S. W. ALASKA

DESCRIPTIVE REPORT
Topographic Sheet No. "B"

LOCALITY
W. E. SIDE OF KAGUSHIN BAY,
PORTAGE BAY & CANNERY BAYS
UNALASKA ISLAND, S. W. ALASKA

1935

CHIEF OF PARTY
H. R. Campbell
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.  
REGISTER NO. T6424  

State: S. W. Alaska  

General locality: Unalaska Island  

Locality: N.E. Side of Hakushin Bay, Portage & Cannery Bays  

Scale: 1:20,000  
Date of survey: May & June 1935  


Chief of party: H. B. Campbell  

Surveyed by: E. B. Lewey  

Inked by: E. B. Lewey  

Heights in feet above M.E.W. to ground: approx. 100 feet  

Form line interval: 100 feet  

Instructions dated: April 1934  

Remarks:  

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DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "B"

N. E. SIDE OF MAKUSHIN BAY, PORTAGE BAY

And CANNERY BAY

UNALASKA ISLAND, S. W. ALASKA

- O -

H. B. CAMPBELL, CHIEF OF PARTY

SEASON OF 1935
DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "B"

N. E. SIDE OF MAKUSHIN BAY, PORTAGE BAY

And CANNERY BAY

UNALASKA ISLAND, S. W. ALASKA

INSTRUCTIONS:

The work done on this sheet was authorized by the Director's Instructions for Project H.T. - 177, dated April 13, 1934.

LIMITS:

The area included on this sheet lies between Latitudes 53° 40.0' North and 53° 46.0' North; and between Longitudes 166° 40.0' West and 166° 54.0' West. Exception: It does not include any part of Anderson Bay.

A junction is made with Topographic Sheet "D", 1934, at triangulation station "Flat, 1934", in Latitude 53° 42.58' North and Longitude 166° 49.97' West.

A junction is made with Topographic Sheet "A", 1935, at topographic station "Yah" in Latitude 53° 45.33' North and Longitude 166° 53.84' West.

CONTROL:

The topography was controlled by second and third order schemes of triangulation executed by the party in 1934 and 1935.

All triangulation is based on the Dutch Harbor Datum.
SURVEY METHODS:

The usual planetable survey methods were used. A combination traverse and resection method was used in locating topographic signals, shoreline and other topographic details. When possible, signals were verified by cuts from triangulation stations.

All traverses closed satisfactorily.

FORM LINES:

All elevations for the control of form lines and the heights of the higher offshore rocks were determined by standard planetable methods. The heights of the smaller and lower rocks offshore were estimated by comparing their heights with the telemeter rod.

COMPARISON WITH PREVIOUS SURVEYS:

There are no previous detailed surveys of this area.

GENERAL DESCRIPTION:

The shores within the limits of this sheet are generally marked with rocky or grassy bluffs varying in height from a few feet to 450 feet. In general, the beaches are rocky with occasional stretches of gravel. The only sand beach of any size is on the east side of Humpback Bay. The inshore area covered by the sheet is steep and rough. The valleys and slopes up to a height of approximately 750 feet are grass covered. The higher land is bare.
The northern portion of the sheet is characterized by alternating high ridges and deep valleys running in a north-east, south-west direction.

Point Bluff is marked by dark rocky cliffs 450 feet in height and is prominent from the westward.

Point Cathedral is prominent from the north or south and from a distance appears as an island. It is 316 feet high and has dark and steep rocky cliffs.

Cathedral Rocks are prominent from all directions and consist of several sharp pointed peaks, the highest being 175 feet.

Portage Bay makes off from the north-east corner of Makushin Bay and extends 4 miles in an easterly direction. It averages 3/4 mile in width. A foot trail from Unalaska comes into the north-east corner of Portage Bay at topographic station "Spud", Latitude 53° 43.7' North and Longitude 166° 42.6' West.

Cannery Bay makes off from the south-east corner of Makushin Bay for a distance of 3 miles in a south-easterly and easterly direction and averages 1/2 mile in width. Small craft drawing up to 4 feet of water may be moored in the lagoon 1/4 mile north-east of the cannery in Latitude 53° 41.67' North and Longitude 166° 44.81' West. The entrance is from the east and bares at low water.

The Pacific American Fisheries cannery at the head of Cannery Bay has been abandoned. The wharf is in fair shape and
has a frontage of 80 feet. At the present time fresh water may
be obtained at the wharf, but the pipe line is rapidly deterior-
ating.

DISTORTION:

A 24" x 31" aluminum mounted sheet was used. The sheet was
frequently tested, but no distortion was noted at any time.

MAGNETIC OBSERVATIONS:

Observation were made at triangulation stations "Tin, 1934";
"Near, 1934"; "Oval, 1934"; "Rock, 1934"; "Gravel, 1934"; "Flat,
1934"; and "Spit, 1934", with the declinometer.

NEW NAMES:

Well established Local Names:

HUMPHREY BAY, the small bay in Latitude 53° 45.0' North
and Longitude 166° 52.6' West.

CATHEDRAL ROCKS, the prominent sharp pointed rocks in
Latitude 53° 44.36' North and Longitude 166° 53.15' West.

PORTAGE BAY, the long narrow bay making off to the east-
ward from the north-east corner of Makushin Bay.

CANNERY BAY, the narrow curving bay making off to the
south-east from the south-east corner of Makushin Bay.

Names Assigned by the Topographer:

POINT CATHEDRAL, the prominent point just eastward of
Cathedral Rocks in Latitude 53° 44.4' North and Longitude
166° 52.7' West.
POINT BLUFF, the prominent rocky point separating the entrance to Portage and Cannery Bays in Latitude 53° 43.0' North and Longitude 166° 47.8' West.

POINT LOW, the comparatively low point at the east side of the entrance to Anderson Bay. Latitude 53° 42.55' North and Longitude 166° 50.0' West.

Respectfully submitted,

Ernest B. Lewey
Ernest B. Lewey,
Jr. H. & G. Engineer,
U.S.C. & G.S.S. DISCOVERER.

Approved and forwarded,

J.B. Campbell
Commanding Officer,
U.S.C. & G.S.S. DISCOVERER.
STATISTICS

TO ACCOMPANY TOPOGRAPHIC SHEET "B"

Number of Statute Miles of Shoreline ....................... 38.0
Number of square Statute Miles of Area Surveyed ............. 44.0
Number of Elevations Determined ............................. 154
The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

**CATHEDRAL ROCKS**

(Center & highest of a group of prominent rocks 175 ft. high. Ø "S. Peak")

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<th>POSITION</th>
<th>METHOD OF DETERMINATION</th>
<th>CHARTS AFFECTED</th>
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Sealed from Topographic Sheet "E", 1935.
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Survey No. 0444
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT
PHOTOSTAT OF No. H
No. T 6424

received April 9, 1936
registered April 14, 1936
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

C. K. Green April 18 - 36
REVIEW OF TOPOGRAPHIC SURVEY No. 6424

Title (Par. 58) Portage & Cannery Bays, S.W. Alaska

Chief of Party H.B. Campbell Surveyed by E.B. Lowey Inked by E.B. Lowey

Ship Discovery Instructions dated April 12, 1934 Surveyed in May-June 1935

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.)

2. The character and scope of the survey satisfy the instructions. Insufficient number of recoverable stations for resurvey.

3. The control and closures of traverses were adequate. (Par. 12, 29.)

4. The amount of vertical control that the Manual specifies for contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)

5. The delineation of contours-formlines- is satisfactory. (Par. 49, 50.)

6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) None Submitted.

7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 18a, 43, 44.)

8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) Rock symbols are entirely too small.

9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)

See reverse side.

10. The span, draft and clearance of bridges are shown. (Par. 16c.)

11. Locations and elevations of summits are given. (Par. 19, 51.)

12. The tree line was shown on mountains. (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.
Paragraph 9

There are no previous detailed surveys of this area. The chart therefore does not show as much detail as shown on the present survey. Since the chart is on such a small scale it cannot be compared with the present survey to any advantage.
13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)

14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.

15. The descriptions of recoverable stations and references to shore line were accomplished on Form 554. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) 3 Cards submitted.

16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.)

17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) Declination taken at seven stations all checking within 26.3 degrees.

18. The geographic datum of the sheet is Unalaska (Unadjusted) and the reference station is correctly noted. (Par. 34.)

19. Junctions with contemporary surveys are adequate.

   Jumps T 6228 (1934) on the S.W.
   Jumps T 6423 (1935) on the N.W.

20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.)

21. The quality of the drafting is Fair. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) Heights of bare rocks are too small. Rock symbols are entirely too small. Lettering not placed properly on form lines.

22. No additional surveying is recommended.

23. The Chief of Party inspected and approved the sheet and the descriptive report after review by.

24. Remarks:

Reviewed in office by Charles R. Burch June 6, 1936.

Examined and approved:

E. W. Green
Chief, Section of Field Records

Fred L. Peacock
Chief, Section of Field Work

L. O. Rollins
Chief, Division of Charts

Chief, Division of Hyd. and Top.
Paragraph 19

There is a holiday between the form lines on the eastern side of this survey and the next survey East (T6432-1938).

At the junction of form lines with T6228 inadequate and since the present survey contains additional elevations over T6228, form lines should be charted from T6434. The representation as shown on T6424 should be used where difference occurs.