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

State: S. W. Alaska

DESCRIPTIVE REPORT
Topographic  Hydrographic  Sheet No. 4735

LOCALITY
Atognaq Island
Seal Bay & Perenosse Bay

10.32

CHIEF OF PARTY
H. B. Campbell
DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET "B"

U.S.C.& G.S.S. DISCOVERER

H. B. Campbell, Commanding

Season of 1932.

LOCALITY

This sheet covers Perenosia Bay and Seal Bay, on the north coast of Afognak Island, Southwest Alaska.

It joins with Sheet "A" on the west and Sheet "C" on the east.

AUTHORITY

This survey was made under the Director's instructions dated April 21, 1932.

METHOD OF SURVEY

The plane table and stadia were used. Standard methods of cuts, resections, three-point fixes and short traverses were used throughout. Closures were well within the required limits.

The traverse into the easternmost arm of Perenosia Bay was supplemented by plane-table triangulation as far as the narrow part. Beyond this there was no direct check.

CONTROL

Third order triangulation stations were established in sufficient number to permit quick and accurate location on the plane table.

Valdez datum was used, carried through the chain established in 1931.
GENERAL DESCRIPTION OF COAST

The area covered by this sheet, is in general of rolling contour and thickly wooded to an elevation of about 700 feet. The comparatively high ridge separating Seal Bay from Tomki Bay is bare with rocky outcrops. Tolstoi Point is grass-covered with scattering clumps of trees.

The coast is ragged with kelp general along the shore and on the reefs and shoals.

SEAL BAY is an irregular open body of water lying between Duck Cape and Tolstoi Point.

It is about three miles wide at its mouth and extends in a south-west direction about three miles. It contains three small arms, each about a mile in length.

Its entrance is marked by a large, flat-topped, grass-covered islet, 95 feet high. **ɬan̓ ɬaːq̓ Rock**

The bay is foul and should not be entered except by small vessels, and then only with local knowledge or a chart.

**PERENOVA BAY** is a large, comparatively clear body of water lying between Posludni Cape and Shuya Strait. It is about five miles wide at its mouth and its longest arm extends in a southerly direction about eight miles. It contains three well defined arms.

The entrance to the most easterly arm lies 1/2 mile southwest of Posludni Cape. It extends in a southeasterly direction three miles, the last mile consisting of a narrow finger of water. The arm affords protected anchorage for vessels of all size from all directions except the northwest, and winds from this direction do not strike this locality with much force.
The main and central arm lies due south of the westerly point of
the arm just west of Posliedni Cape. Its head lies seven miles from
this point. It contains two fairly large wooded islands near its head.
The southerly one is connected to the mainland at low water. Excellent
anchorage in all weather is afforded vessels of any size in the basin
east of the most northerly island. This basin and its entrance are
free from visible dangers to within a few meters of the shore.

A stream of considerable size enters at its head. It is important
as a red salmon stream and a watchman is maintained throughout the
spawning season.

The west arm is about a mile wide at its entrance and extends in
a southerly direction about three miles. It contains a fairly large
wooded island about a mile from its head. The area south of this island
is foul and should be avoided.

The continuation of the west side of Perenosa Bay is contained on
Sheet "A".

POSLEDNI CAPE consists of a group of islands, some of which are connec-
ted at low water.

DANGERS TO NAVIGATION

Dangers, which are numerous west of Posliedni Cape, are as shown
and noted.

LANDMARKS

There are none of importance.

NEW NAMES submitted to H.S.B.

Vantage Rock is suggested for the large, flat-topped, grass-covered
prominent rock in the center of the entrance to Seal Bay. //

Bay is better. So submitted to U.S. Board

Discoverer Basin is suggested for the main and central arm of Pare-
Discoverer Island is suggested for the name of the first island in this bay
Perenosna Bay after the U.S. Coast and Geodetic Survey ship of that name.

Submitted to U.S., R.B.

Phoenix Bay is suggested as the name for the most easterly arm of
Perenosna Bay, in commemoration of the first vessel built in Alaska.

Submitted to U.S., R.B.

Shields Point is suggested as the name for the westerly point of
Phoenix Bay. Shields was the builder and first master of the vessel.

(Bancroft's History, Vol. 33, pp. 329-333).

Submitted to U.S., R.B. Delphin Island is suggested for the name of the island near head of bay
Delphin Bay is suggested for the westerly arm of Perenosna Bay.
The name "Olga Bay" in Kodiak is nearly might cause confusion. Delphin Pt. suggested
Olga Cape is suggested for the point separating Discoverer Basin from U.S., R.B.

Delphin Bay. The "Delphin" and the "Olga" were two vessels also built
under Baranof's direction after the successful launching of the "Phoenix".

(Bancroft's History, Vol. 33, p. 333). Notes regarding names by

Harlow Badon; Cartographer.

Dec 23, 1933.

STATISTICS

Shoreline, in statute miles // - - - - - - - - - - - - - - - - - - - 140

Area, in square statute miles // - - - - - - - - - - - - - - - - - - - - - - - - 45

George A. Nelson
Geo. A. Nelson, Jr., H.G.E.,
Topographer.

Approved:

H.B. Campbell, H.G.E.,
Chief of Party.

[name underlined in red, approved by U.S.C.G. 2/1/34]

KTA
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 Letter B

REGISTER NO. 4735

State Alaska

General locality Afognak Island

Locality Perenos - Bay and Seal Baya

Scale 1:20,000 Date of survey June - July, 1932

Vessel DISCOVERER

Chief of Party H. B. Campbell

Surveyed by G. A. Nelson

Inked by G. A. N.

Heights in feet above M. E. W. to ground

Contour Approximate contour Form line interval 100 feet

Instructions dated April 21, 1932

Remarks

U. S. GOVERNMENT PRINTING OFFICE 1931
Title (Par. 56) Perennos and Seal Bays, Afognak, I. Alaska


Ship Discoverer Instructions dated Apr. 21, 1932 Surveyed in June-July 1932

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.

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.) No maps from outside sources were submitted.

7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 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.)

9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) The present survey was the first detailed survey of this coast.

10. The span, draw and clearance of bridges are shown. (Par. 16c.) No bridges exist within the limits of the survey.

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

12. The tree line was shown on mountains. (Par. 16g.) Noted in Desc. Rep.

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.
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 524. (Par. 29, 30, 57, 67 except scaling of BMs and DPs, 68.)

16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) See Desc. Rep. page 3.

17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.)

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

19. Junctions with contemporary surveys are adequate.

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 good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.)

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 R.G. Christiansen, Sept. 22, 1936

Examined and approved:

L. F. Green
Chief, Section of Field Records

Fred L. Peacock
Chief, Section of Field Work

John Robert
Chief, Division of Charts

Henderson
Chief, Division of Hyd. and Top.
NAUTICAL CHARTS BRANCH

SURVEY NO. T-4735

Record of Application to Charts

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A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.