

4805

U. S. COAST & GEODETIC SURVEY  
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Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. PATTON, Director

State: ALASKA

DESCRIPTIVE REPORT

Topographic  
Hydrographic

Sheet No. "D" 4805

LOCALITY

Dixon Entrance

NAKAT INLET

S. E. ALASKA

1933

CHIEF OF PARTY

JACK SENIOR

U. S. GOVERNMENT PRINTING OFFICE: 1921

4805

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "D"

NAKAT INLET - S. E. ALASKA

- O -

JACK SENIOR - CHIEF OF PARTY

SEASON OF 1933

DESCRIPTIVE REPORT  
TO ACCOMPANY TOPOGRAPHIC SHEET "D"

NAKAT INLET - S. E. ALASKA

AUTHORITY:

Authority for the survey was the Director's Instructions for Project No. HT-137 to the Commanding Officer, U.S.C. & G.S.S. EXPLORER, dated March 16, 1933.

PURPOSE:

The purpose of the topographic survey was to locate and show the nature of the shoreline, islands, rocks and reefs within the limits of the sheet. Also, to furnish control for the hydrography in this vicinity.

LIMITS:

The survey extends from triangulation station "HARD", 1933, Latitude  $54^{\circ} 49.5'$ , Longitude  $130^{\circ} 44.0'$  at the north end of Nakat Bay, and triangulation station "SIMONTON", 1933, Latitude  $54^{\circ} 49.7'$ , Longitude  $130^{\circ} 42.7'$  in Nakat Harbor, to the head of Nakat Inlet, Latitude  $54^{\circ} 57.8'$ , Longitude  $130^{\circ} 44.0'$ , and includes the islands and rocks.

The sheet joins topographic sheet "C" at triangulation stations "HARD", "MID" and "SIMONTON", and at topographic signal "DIM".

CONTROL:

The control for this sheet was furnished by third order triangulation, executed by the party during the season.

GENERAL DESCRIPTION:

The shoreline is low throughout the sheet and has trees and limbs overhanging the water. The islands are all low and heavily wooded, with the exception of one small islet, in Latitude  $54^{\circ} 56.2'$ , Longitude  $130^{\circ} 44.9'$ . This is the islet that has triangulation station "KEY" on it. The islet is low and covered with grass.

In general the mountains are steep and rough, and are heavily wooded close to the beach. Farther back there are patches of muskeg and the timber thins out near the tops of the mountains.

Some are bare, others covered by scrubby trees.

LANDMARKS:

On the east side of the inlet about the center of the narrowest part, there is a white cliff about seventy-five feet high. ~

SURVEY METHODS:

The most of the signals were located by three or more cuts and resections, from triangulation stations. The signals were used as set-ups; the high and low water lines and rocks located from these set-ups.

Due to the trees and limbs overhanging the water and the steep rounding points, it was impossible to run traverses between most of the triangulation stations. As a result, very little traversing was done on this sheet.

FORM LINES:

The form lines for this sheet were done on Sheet "F", 1933, scale 1:40,000.

COMPARISON WITH PREVIOUS SURVEYS:

The previous survey was on Sheet 1614, scale 1:40,000. The outline is practically the same, but they had no control in Nakat Inlet.

The present survey is well controlled and is more in detail.

DISTORTION:

The sheet was frequently tested, but no appreciable distortion noted at any time.

MAGNETICS:

Magnetic observations were made at triangulation station "NAUT", 1933 and "HEAD", 1933, with the declinometer.

An observation was made at triangulation station "INLET", 1933 with the declinometer.

Respectfully submitted,

*J. C. Mast*  
J. C. Mast,  
Jr. Hydro. & Geod. Engineer,  
U.S.C. & G.S.S. EXPLORER

Approved and forwarded:

A handwritten signature in cursive script that reads "Jack Senior". The signature is written in dark ink and is positioned above the typed name and title.

Jack Senior,  
Commanding Officer,  
U.S.C. & G.S.S. EXPLORER.

STATISTICS

Statute Miles of Shoreline..... 37.5

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

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REG. NO.

4805

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. "D"

REGISTER NO. 4805

State S. E. ALASKA

General locality DLIXON ENTRANCE

Locality NAKAT INLET *Rare*

Scale 1:20,000 Date of survey JULY, 1923

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

Chief of Party JACK SENIOR

Surveyed by G. C. MAST

Inked by G. C. MAST

Heights in feet above M.H.W. to ground ~~to tops of trees~~

Contour, Approximate contour, Form line interval --- feet

Instructions dated MARCH 16, 1923

Remarks:

Applied to drawing of Chart № 8102. S.B.M. Sept. 1934

Applied to new compilation plan of Nakat Harbor  
Chart # 8120 G.H.S. Oct. 12, 1934

Applied to drawing (compilation) of new chart № 8053; S.B.M. Oct. 1934



## REVIEW OF TOPOGRAPHIC SURVEY No. 4805

Title (Par. 56) *Naket, Inlet, Alaska*Chief of Party *Jock Senior* Surveyed by *G.C. Mast* Inked by *G.C. Mast*.Ship *Explorer* Instructions dated *March 16, 1933* Surveyed in *July 1933*

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.) *See T4801*
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, *See T4801* 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. 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.)
10. ~~The span, draw and clearance of bridges are shown. (Par. 16c.)~~
11. Locations and elevations of summits are given. (Par. 19, 51.) *See T4801*
12. The tree line was shown on mountains. (Par. 16g.) *See T4801*

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 DMs and DPs, 68.) *None Submitted*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *None Submitted*
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) ✓ *Declination is apparently 4° less than it should be*
18. The geographic datum of the sheet is *North American 1927 (Adj.)* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. *Details of the junction with T4804 (933) were slightly in error and corrected*
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 *Chas. R. Bush* May 9-1936.

Examined and approved:

*E. H. Green.*  
Chief, Section of Field Records  
*L. O. Polk.*  
Chief, Division of Charts

*Fred. L. Peacock*  
Chief, Section of Field Work  
*W. H. de*  
Chief, Division of Hyd. and Top.

Applied to Compilation drawing for new Chart 8142 (1936).  
James W. McQuire