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
DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "D"

NAKAT INLET - S. E. ALASKA

- C -

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° 49.5', Longitude 130° 44.0' at the north end of Nakat Bay, and triangulation station "SIMONTON", 1933, Latitude 54° 49.7', Longitude 130° 42.7' in Nakat Harbor, to the head of Nakat Inlet, Latitude 54° 57.8', Longitude 130° 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° 56.2', Longitude 130° 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 muskæg 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 over-hanging 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
Jr. Hydro. & Geod. Engineer,
U.S.C. & G.S.S. EXPLORER
Approved and forwarded:

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

Statute Miles of Shoreline...................... 37.5
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: DIXON ENTRANCE

Locality: NAKAT INLET

Scale: 1:20,000 Date of survey: JULY 1933

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, 1933

Remarks:

600
Applied to drawing of Chart No 8102. S.B.M. Sept. 1934


Applied to drawing (compilation) of new Chart No 8053; S.B.M. Oct. 1934.
REVIEW OF TOPOGRAPHIC SURVEY No. 4801

Title (Par. 56) Naknek Inlet Alaska

Chief of Party John Senior Surveyed by G.C. Most Inked by G.C. Most.

Ship Explorer Instructions dated March 16, 1933 Surveyed in July 1833

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 T 4801

5. The delineation of -contours-formlines- is satisfactory. (Par. 49, See T 4801 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, 48, 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 T 4801

12. The tree line was shown on mountains. (Par. 16g.) See T 4801

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 aro-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 (Ady) and the reference station is correctly noted. (Par. 34.)

19. Junctions with contemporary surveys are adequate. Details of the junction with T480W (1933) 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 Charles R. Back May 9-1936.

Examined and approved:

C. W. Green.
Chief, Section of Field Records

L. O. Robins.
Chief, Division of Charts

Fred L. Peacock.
Chief, Section of Field Work

Chief, Division of Hyd. and Top.
Applied to Compilation drawings for new Blatt 8/4/9 (1936)

James W. McAuley