

7076

Diag. Cht. No. 9380

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. EX-B-50 Office No. T-7076

LOCALITY

State Alaska

General locality Norton Sound

Locality Cape Rodney

1945

CHIEF OF PARTY

H. Arnold Karo

LIBRARY & ARCHIVES

DATE JAN 10 1951

7076

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. T-7076

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. EX-B-50

REGISTER NO. T-7076

State Alaska

General Locality Norton Sound

Locality Cape Rodney

Scale 1:20,000 Date of survey July, 1950

Vessel EXPLORER

Chief of party H. Arnold Karo

Surveyed by David E. Romero

Inked by David E. Romero

Heights in feet above MLLW to ground ~~XXXXXXXXXX~~ feet

Contour, Approximate contour, Form line interval - feet

Instructions dated 19 May 1950, 19

Remarks:

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET

Field No. EX-B-50

Norton Sound-Cape Rodney

1950

Ship EXPLORER, H. Arnold Karo, Comdg.

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INSTRUCTIONS:

Instructions for Project CS-341 dated 19 May 1950.

LIMITS OF SURVEY:

This 1:20,000 sheet covers that portion of the shoreline that is south and east of Cape Rodney light and extends to Sinuk River. The information obtained on this section of Seward Peninsula was limited to the location of the signals and the high water line.

CONTROL:

Current unadjusted third order triangulation was used for control. Triangulation stations used were: ROD, 1950, and HUT, 1950 (initial azimuth only). The traverse was closed on topographic station Ace, 1950 which had previously been located by theodolite cuts from triangulation stations. All stations were on the 1927 datum.

SURVEY METHODS:

Standard topographic methods were used throughout. Distances were chained with a 200 meter wire because of poor visibility for stadia readings. Since only one triangulation station fell on the sheet, this traverse was run without the aid of resection. The original closure of this traverse was 196 meters, and after a check in the field, it was found that a 200 meter chain length had been dropped between station ROD, 1950 and station Ivy. This adjustment was made in the office, giving closures in distance and azimuth well within allowable limits.



GENERAL DESCRIPTION:

The coast of this area of Seward Peninsula is sandy beach with some small flat gravel. Beyond the beach are numerous ponds and marshy grassland. It was noted that after a rain or storm, the stream outlets of the ponds changed their courses where they crossed the beach. ✓

COMPARISON WITH PREVIOUS SURVEYS:

There were no topographic surveys of this area available, therefore a comparison could not be made. At this time there are aerial photographs available, although there is probably not adequate control for an accurate compilation. Reference is also made to the work of E. C. Barnard, Topographer U. S. Geological Survey (1900). ✓

COMPARISON WITH HYDROGRAPHIC SURVEYS:

No comparison with the inshore hydrographic sheet can be made until the hydrographic sheet is smooth plotted. *Shoreline applied to H-7835 (1950)  
(No discrepancies found)*

LANDMARKS FOR CHARTS:

There are no features in this area which should be considered as landmarks for charts except the light at Cape Rodney. This has already been charted. ✓

GEOGRAPHIC NAMES:

All names shown on this sheet are already on present Coast Survey charts. No other objects in this area require names. ✓

ADEQUACY OF SURVEY:

The object of this survey was control for hydrography. Since this survey, the area has been covered by aerial photographs. ✓

STATISTICS:

5.4 statute miles of shoreline and signals were located.

Respectfully submitted,

*D. F. Romero*

D. F. Romero

Ensign, USC&GS

Approved and forwarded.

*S. B. Grenell*

S. B. Grenell

Commander, USC&GS

Comdg. Ship EXPLORER

# GEOGRAPHIC NAMES

Survey No. T-7076

Name on Survey	On Chart No.		On previous survey No.		On U. S. quadrangle Maps		From local information		On local Maps		P. O. Guide or Map		Rand McNally Atlas		U. S. Light List	
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DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. T-7076

FIELD NO. EX-B-50

Alaska, Norton Sound, Cape Rodney

Project No. CS-341

Surveyed in July 1950

Scale 1:20,000

Plane Table Survey

Aluminum Mounted

Chief of Party - H. A. Karo

Surveyed by - D. F. Romero

Inked by - D. F. Romero

Reviewed by - T. A. Dinsmore, 17 October 1952

Inspected by - R. H. Carstens

1. The control for this survey is based on triangulation of 1950.
2. The survey junctions adequately with T-7082 (1950) on the east. There is no contemporary survey on the west.
3. There are no prior topographic surveys of the area by this Bureau.
4. Topography charted on 9380 (print date 9/8/52) originates with surveys by the Geological Survey supplemented by partial application of the present survey. The charted shoreline is superseded by the present survey.
5. No observations for magnetic declination were made on this survey.

## NAUTICAL CHARTS BRANCH

SURVEY NO. T-7076

## Record of Application to Charts

[illegible]

M-2168-1

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.