

4659

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

B.S. Patton, Director

U. S. COAST & GEODETIC SURVEY  
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State: Alaska

DESCRIPTIVE REPORT

Topographic  
Hydrographic

Sheet No.  
# H

4659

LOCALITY

Behm Canal

Smeaton Bay, Wilson and

Bakewell Arms

1931

CHIEF OF PARTY

E.L. Peacock

GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "H"

SMEATON BAY - BEHM CANAL

S. E. ALASKA

1931.

## DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "H"

SMEATON BAY - BEHM CANAL - S. E. ALASKA.

AUTHORITY: Authority for this survey was the Director's Instructions for Project No. 56, to the Commanding Officer, U.S.C. & G.S. Ship EXPLORER, dated March 7, 1930.

LIMITS: The shoreline extends East from triangulation station "TROL", Latitude  $55^{\circ}18.8'$ , Longitude  $130^{\circ}52.1'$  on the North shore, and from hydrographic signal "QUO", Latitude  $55^{\circ}17.9'$ , Longitude  $130^{\circ}53.7'$  on the South shore of Smeaton Bay to the head of Wilson Arm, Latitude  $55^{\circ}23.8'$ , Longitude  $130^{\circ}36.3'$ .

Junction is made with topographic sheet "G" at triangulation station "TROL" and hydrographic signal "QUO".

T-4651

CONTROL: Control for the survey was furnished by third-order triangulation established by Lieutenant H. C. Warwick, 1931.

SURVEYING METHODS: The shoreline and signals were located by inter-sections cuts and planetable stadia traverse. All traverses run were within the prescribed limits, and were adjusted as directed in the "Topographic Manual". In Bakewell Arm, planetable triangulation was used. Standard practice was followed throughout the sheet.

GENERAL DESCRIPTION: The greater part of the shoreline shown on the sheet is steep and rocky. The entire country is covered with a heavy growth of evergreen timber. Numerous bare rock cliffs and outcrops show on the wooded slopes. The tree line extends to within a few meters of the shoreline. On the North shore of Wilson Arm are several water-falls which are partially hidden by overhanging trees.

LOW WATER: Where low water is not shown on the sheet the distance between low and high water is negligible. At the heads of Wilson and Bakewell Arms low water was not rodded due to limited time. However the approximate location of low water is shown by a dash line in pencil on the sheet. This location may be checked on the hydrographic sheet when the hydrography is finished. The character of the soil in these places is sand and gravel.

ELEVATIONS AND FORM LINES: Due to poor visibility and limited time no elevations were taken on this sheet.

DISTORTION: The present distortion of the sheet was not noticeable until after the sheet was brought into the office. During the last two days of surveying rainy weather prevailed and the sheet was exposed to extreme dampness. It is thought that the change from the damp outside atmosphere to a dry, warm office is responsible for the present distortion.

SNAG: About 375 meters South of triangulation station "EVEN", approximate Latitude  $55^{\circ}19.3'$ , Longitude  $130^{\circ}41.1'$ , 80 meters from the shoreline there is located a snag which is shown on the sheet by a black circle as there seems to be no conventional symbol in the "Manual". The snag is a part of a tree which is lodged in a vertical position and seems to be fairly stable.

MAGNETIC OBSERVATIONS: Magnetic observations were made at triangulation stations, "CARP", "BUOY 2", "TEAM 2", "NET 2", and "FINAL".

Respectfully submitted,

*Kenneth S. Ulm*  
Kenneth S. Ulm,  
Aid, C. & G. S.

APPROVED:

*F. H. Hardy*  
F. H. Hardy,  
Commanding Officer,  
U.S.C. & G.S.S. EXPLORER.

LIST OF TOPOGRAPHIC STATIONS

	<u>Lat.</u>	<u>D.M.</u>	<u>Long.</u>	<u>D.P.</u>
INK	55° 18'	860	130° 41'	112
JAM	55° 18'	1359	130° 40'	42
LIP	55° 18'	918	130° 39'	509
KEN	55° 17'	1813	130° 38'	940
HUP	55° 18'	86	130° 38'	21

The above stations are marked by standard bronze  
discs.

## STATISTICS

### SHEET FIELD LETTER "H"

Statute miles of shore line, high water:	40.7
Statute miles of shore line, low water:	3.0
Number of permanently marked stations determined by planetable	5

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4659

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. "H"

REGISTER NO. 4659

State ~~S. E.~~ Alaska

General locality Behn Canal

Locality Smeaton Bay, Wilson and Bakewell Arms

Scale 1:20,000 Date of survey Aug. Sept. Oct., 1931

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

Chief of Party Fred. L. Peacock

Surveyed by Kenneth S. Ulm

Inked by Kenneth S. Ulm

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated March 7, 1930.

Remarks: