

4591

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

4/1/31

L. & A. SEC.

State: Alaska

DESCRIPTIVE REPORT

Topographic
Hydrographic

Sheet No.
Field #E

4591

LOCALITY

Behm Canal

Escape Pt. to Hassler I.

1930

CHIEF OF PARTY

E. W. Eichelberg

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "E"

BEHM CANAL - S. E. ALASKA

AUTHORITY:

Work was done under Director's instructions dated March 7th, 1930.

LIMITS:

The shore line extends along the east side of Behm Canal from triangulation station NOSE, 1930, Latitude $55^{\circ} 39.7'$, Longitude $131^{\circ} 42.5'$ northward along Revillagigedo Island to triangulation station HASSLER, Latitude $55^{\circ} 53.5'$, Longitude $131^{\circ} 36.4'$.

At the south end a junction is made with Field Sheet "B" at station NOSE, 1930.

At the north end a junction is made with Field Sheet "F" at signal TEP, Latitude $55^{\circ} 53'$ (792 m.), Longitude $131^{\circ} 35'$ (340 m.), on Revillagigedo Island and on east shore of Hassler Island at triangulation station HASSLER, Latitude $55^{\circ} 53' 28.2''$ (873.4 m.), Longitude $131^{\circ} 36' 24.3''$ (422.3 m.).

Gedney Island and all the islands in the various coves and bays are included on the sheet.

The eastern end of Shrimp Bay is shown in insert.

A small insert of the east end of Neets Bay is shown.

GENERAL DESCRIPTION:

The greater part of the shore line shown on this sheet is steep and rocky, with rock ledges in the area between low and high water. Mud flats occur at the heads of various bights as shown on the sheet. The entire country is covered with a heavy growth of evergreen timber. The hills rise sharply from the shore to heights up to 3200 feet.

LANDMARKS:

A broad high rock cliff on the east side of Bushy Point Cove is visible from the west. From the north and south this cliff stands out in bold relief, dropping from the green hills to the east vertically to the water. Cliff is in Latitude $55^{\circ} 44'$, Longitude $131^{\circ} 43'$.

CHARACTER OF CONTROL USED:

The control for this survey was based on the scheme of triangulation executed in 1929 by Lieutenant J. M. Smook, supplemented with additional triangulation stations in Traitors Cove, Neets Bay and Gedney Pass to comply with the requirements for control as stated in the Manual.

Most of the signals were located by intersection cuts from triangulation stations and then checked by the occupation of sufficient signals to rod in the shore line. All traverses run, except from triangulation station TRAITOR to station NOSE, which was rerun and adjusted in the field, were within the prescribed limits and were adjusted as suggested in the Manual.

Standard practice was followed throughout the entire sheet.

LOCATION OF OFF-LYING FEATURES:

Reefs and rocks were located by direct rod readings.

FORM LINE VERIFICATION:

Form lines were not checked by off-shore observations, but were checked against the Geological Survey Map of Revillagigedo Island on the scale of 1:80,000. Considering that this topography was based on the present charts of this vicinity, the new form lines checked the older topography. All elevations are to the ground above high water. The heights of the trees were estimated between 40 and 80 feet, depending on the general elevation of the tree in question.

MAGNETIC OBSERVATIONS:

Magnetic observations were made at triangulation stations LEE, VAN2, EAR, CHIN and TRAITOR.

Comparisons with declinometer No. 12 were made at stations LEE and TRAITOR and corrections indicated on sheet. Declinatoire used was No. 2487 (makers number).

Respectfully submitted,

Philip C. Doran.
Hydro. & Geod. Engineer.

Approved and forwarded,

E. W. Eickelberg
E. W. Eickelberg,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.

STATISTICS

TO ACCOMPANY TOPOGRAPHIC SHEET "E"

Statute Miles of shore line - high water:	120.0
Statute Miles of shore line - low water:.	12.0
Area of form lines - square miles:.....	100.6
Number of elevations.....	161

Where low water is not shown, the area between high and low water is rocky and too small to be shown on the sheet.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4591

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 "E"

REGISTER NO. 4591

State ALASKA

General locality BEEM CANAL

Locality Escape Pt. to Hassler I.

Scale 1:20,000 Date of survey June, 1930

Vessel EXPLORER

Chief of Party E. W. EICKELBERG

Surveyed by PHILIP C. DORAN

Inked by PHILIP C. DORAN

Heights in feet above H. W. to ground ~~to top of water~~~~Contours approximately horizontal~~ Form line interval 100 feet

Instructions dated March 7th, 1930

Remarks: