

4350 a+b

Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
....., Director

G. & G. SURVEY
L. & A.
MAY 9 - 1928
Acc. No.

State: SE Alaska

DESCRIPTIVE REPORT
Topographic Sheet No. 4350a+b
~~*Hydrographic*~~

LOCALITY

San Alberto Bay
San Fernando I. and San Juan
Bautista I.

1927

CHIEF OF PARTY
H. A. Cotton

GOVERNMENT PRINTING OFFICE

4350 a+b

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET NO. 4350a + b

(Field Letter "H")

URSUA CHANNEL

SAN ALBERTO BAY

SOUTH EAST ALASKA

June, 1927.

Scale 1:10,000

AUTHORITY:

The topography was executed in accordance with instructions of Feb. 18, 1927 to the Commanding Officer of the Steamer EXPLORER.

LIMITS:

The survey extends from station A AGUEDA at AGUEDA POINT to station A MOND just north of DIAMOND POINT on SAN JUAN BAPTISTA ISLAND. On SAN FERNANDO ISLAND the survey extends from signal A DE about one mile north by east of POINT AMARGURA to station A END about one and one half miles north of FERN POINT.

The limits of the sheet are: Latitude $55^{\circ} 24'$ to $55^{\circ} 31'$

Longitude $133^{\circ} 12'$ to $133^{\circ} 23'$

CONTROL :

Control for the survey was furnished by recovered triangulation stations and by station A END which was established by the party during the season's work. Triangulation stations AGUEDA, FOG, MOND, GURA, FERN and CEMENT were recovered. Triangulation stations DUG and NAN were not recovered, but their reference marks were recovered, plotted on the sheet, and used to tie in the traverse lines up to those points.

ELEVATIONS:

The hills on SAN FERNANDO and SAN JUAN BAPTISTA Islands are not visible from positions along the respective shores of those islands and so but few elevations were obtained with the plane table.

On SAN JUAN BAPTISTA Island the elevations of the most important peaks and ridges were determined by the previous survey of that island. The form lines along the north west side of the island were sketched directly onto a copy of chart 8155, which is submitted with this report. The sketching was done from a launch.

Part of the elevations on SAN FERNANDO Island were obtained by

METHODS:

The shore line was surveyed by plane table traverses which were run as follows:

LOCATION	DISTANCE Stat. Mi.	CLOSURE
1. Δ AGUEDA to Δ FOG	2.0	15 M. in dist. Adjusted. Azimuth correct.
2. Δ FOG to ref. mark for Δ DUG	1.3	0
3. Ref. Mark for Δ DUG to Δ MOND	1.1	6 Adjusted.
4. Δ NAN to ○ EFF (○ EFF located by 3 pt. fix on Δ NAN, Δ FOG and Δ DUG)	1.0	2
5. Δ NAN to Δ FERN	2.2	15 in azimuth Adjusted. & distance.
6. Δ FERN to Δ END	1.4	6 in azimuth. dist. corr.

Signals on San Fernando Island from Δ GURA to Δ EFF were located by cuts taken from Δ FOG, Δ DUG and Δ NAN.

The subplan at the upper end of the sheet was used to locate signals for hydrography in that area. The shore line was copied from the original survey and was not re-run.

STATISTICS

Statute miles shore line--high water	14.0
Statute miles shore line--low water	12.6
Area square statute miles	10.0
Number of elevations	11
Number of recoverable stations, Triangulation (Triangulation stations NAN and DUG not recoverable, but reference marks are recoverable.)	7
Plane table positions	0
Number of positions occupied	38

Examined, approved and forwarded.

Respectfully submitted.

Harold A. Cotton
 Harold A. Cotton,
 Commanding Officer,
 U.S.C. & G.S.S. EXPLORER.

B.G. Jones
 B.G. Jones,
 Jr. A. & G. E.,
 C. & G. Survey.

Inspected and found adequate.
E.P. Lee's

July, 1928

Register No. 4350b

STATE S. E. ALASKA

GENERAL LOCALITY SAN ALBERTO BAY

LOCALITY SAN FERNANDO I. & SAN JUAN BAUTISTA I.

Surveyed by B. G. Jones

Chief of Party H. A. Cotton

Date June, 1927.

Scale 1:40,000.

HEIGHTS in feet above H. W.

Form line Interval 100 feet

Inked by B. G. J.

Examined

L. O. Solbert

Chief, Section of Field Records

F. S. Borden

Chief, Section of Field Work

Recommended for approval

L. O. Solbert

Chief, Division of Charts

G. H. Hilde

Chief, Division of Hydrography and Topography

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO.
43502

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. 43502

State S. E. ALASKA

General locality San Alberto Bay

San Fernando I. and San Juan Bautista I.
Locality ~~Ursua Channel~~

Scale 1:10,000 Date of survey June, 1927.

Vessel Steamer EXPLORER

Chief of Party Harold A. Cotton

Surveyed by B. G. Jones

Inked by B. G. Jones

Heights in feet above h. w. to ground to tops of trees

~~Contours: Approximate contours~~ Form line interval 100 feet

Instructions dated February 18, 1927.

Remarks:

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.
4350b

TOPOGRAPHIC TITLE SHEET
Prepared at Office of F.R.

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. 4350b

REGISTER NO.

State SE. Alaska

General locality San Alberto Bay

Locality San Fernando I. and San Juan Bautista I.

Scale 40000 Date of survey June, 1927

Vessel Explorer

Chief of Party H.A. Cotton

Surveyed by B.G. Jones

Inked by " " "

Heights in feet above High Water to ground to tops of trees

~~Contour, Approximate contour~~, Form line interval 100 feet

Instructions dated Feb. 18, 1927

Remarks: Part of Chart 8155 used as Sm. Sh.

See Desc. Rep. 4350.1