DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

State: SE. Alaska

DESCRIPTIVE REPORT
Sheet No. 4350a+b

LOCALITY
San Alberto Bay
San Fernando L and San Juan
Bautista L

1927

CHIEF OF PARTY
H.A. Cotton
DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET NO. 3502 + 4

(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 BAUTISTA 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° 24' to 55° 31'
Longitude 133° 12' to 133° 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 BAUTISTA 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 BAUTISTA 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:

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>DISTANCE</th>
<th>CLOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stat. Mi.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. AGUEDA to A FOG</td>
<td>2.0</td>
<td>15 M. in dist. Adjusted.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Azimuth correct.</td>
</tr>
<tr>
<td>2. A FOG to ref. mark for A DUG</td>
<td>1.3</td>
<td>0</td>
</tr>
<tr>
<td>3. Ref. Mark for A DUG to A MOND</td>
<td>1.1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adjusted.</td>
</tr>
<tr>
<td>4. A NAN to E FF</td>
<td>1.0</td>
<td>2</td>
</tr>
<tr>
<td>(E FF located by 3 pt. fix</td>
<td></td>
<td></td>
</tr>
<tr>
<td>on A NAN, A FOG and A DUG)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. A NAN to A FERN</td>
<td>2.2</td>
<td>15 in azimuth &amp; distance.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adjusted.</td>
</tr>
<tr>
<td>6. A FERN to A END</td>
<td>1.4</td>
<td>6 in azimuth. dist. corr.</td>
</tr>
</tbody>
</table>

Signals on San Fernando Island from A GURA to A EFF were located by outs taken from A FOG, A DUG and A 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.
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  7
(Triangulation stations NAM and DUG not recoverable, but reference
marks are recoverable.)
Plane table positions  0
Number of positions occupied  33

Examined, approved and forwarded. Respectfully submitted.

Harold L. Cotton,  B. G. Jones,
Commanding Officer,  Jr. A. & G. E.,

Inspired and signed as you, C. E. Daves
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
Chief, Section of Field Records

Chief, Section of Field Work

Recommended for approval
Chief, Division of Charts

Chief, Division of Hydrography and Topography
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

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. 4350A

State. S.E. ALASKA

General locality. San Alberto Bay

San Fernando I. and San Juan Bautista I.

Locality. Green 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 tops of trees

Form line interval 100 feet

Instructions dated. February 19, 1927.

Remarks:

OPQ
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETC SURVEY

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... S.E. Alaska

General locality... San Alberto Bay

Locality... San Fernando I. and San Juan Bautista I.

Scale... 40,000...... 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 and tops of trees

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

Instructions dated... Feb. 10...... 1927

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

See Desc. Rep. 4350a