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U. S. COAST & GEODETIC SURVEY
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Form 504 Rev. April 1935	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Topographic	Registry No. T-6626
Hydrographic	Sheet No. B-1938
State S.E. Alaska	
LOCALITY	
Cross Sound	
Inian Islands	
1938	
CHIEF OF PARTY	
H. Arnold Karp	

U. S. GOVERNMENT PRINTING OFFICE

6626

Applied to drawing of chart 8304 - 12/18/39 - JAW

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form,
filled in as completely as possible, when the sheet is for-
warded to the Office.

Field No. B-1938

REGISTER NO. T-6626

State S.E. Alaska

General locality Cross Sound

Locality Inian Islands

Scale 1:10,000 Date of survey July, 1938

Vessel M.V. Westdahl

Chief of party H. Arnold Karo

Surveyed by D.H. Konichek

Inked by D.H. Konichek

Heights in feet above M.H.W. ~~to ground to tops of trees~~

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

Instructions dated March 10, 1938

Remarks: _____

General Information to Accompany All 1938

Topographic Sheets

Declinatoire and Alidade # 209 were used on all topographic sheets executed in 1938 which includes sheets having field no's, A-38, B-38, C-38, D-38, E-38, F-38, and G-38. Declinatoire # 209 was standardized at the Green Lake Magnetic Station at the beginning and at the end of the 1938 field season. The correction was found to be: $1^{\circ} 07' W$. This value depends upon the standardization of compass declinometer # H-19 using a provisional index correction of $+5.2$ to E declination (see Director's letter 40 - C R S dated Oct. 27, 1938) Standard methods were used for standardization of both the declinometer and compass declinatoire. *Green Lake Magnetic Station unsuitable for standardization. See Instructions 2/21/42 project 11221*

Heights of islands and rocks were obtained as follows: Heights of rocks covered at all stages of the tide were obtained by measuring the depth to which the telemeter rod was covered when held on the rock, and the time noted. Heights of objects bearing at some stages of the tide, but covered at other stages were obtained by estimating the amount bare at the particular time and noting that time. *heights reduced to plane of MLLW in Washington Office* Heights of objects bare at all stages of the tide were obtained by estimating the height above ^MH.W.M.

All estimations of height were made with a direct comparison with the length of the telemeter rod, where practical these heights were checked by depression or elevation angles taken with the alidade by determining the height of instrument from observations on the water surface at the time the other heights were taken.

Approximate elevations were noted in some instances and were specified to be approximate elevations on the sheets concerned.

Descriptive Report to Accompany Topographic

Sheet No. Registry T-6626, Field B-1938

Cross Sound - Inian Islands, Alaska

(a) Date of Instructions:

Work was done under instructions from the Director dated March 10, 1938. Project H T-221

(b) General Description:

The shore in the area covered by sheet is steep and rocky, especially in the vicinity of triangulation stations Ache 1901-1923, and Ex 1901-1923. The coast is typical of the exposed areas in this section. The land is heavily wooded above where erosion has taken place.

(c) Landmarks:

There are no landmarks other than North Inian Pass Lt. (Est. 1928) 1938.

(d) Character of control used:

Triangulation executed in 1901 was used and supplemented by 1938 triangulation. Refer to triangulation and season's reports for 1938.

(e) Closing Errors of Traverse Run:

The control points were numerous enough to eliminate any extensive traverses and the topography is thought to be within the limits of accuracy. No adjustment was necessary.

(f) Description of Auxiliary Survey Methods:

There were none.

(g) Form Lines:

The instructions did not call for form lines on this sheet.

*Instructions called for
plane table survey of West
side of island. Form line
determination on
this survey would
have been useful
since form lines from
earlier surveys are
not in agreement with
present shoreline.*

(h) Changes in Topography:

Topography in the vicinity executed in 1901 does not include the area covered in 1938. We conclude that no topography has been previously done.

*T-2567(1901) 2
T-2619(1902)*

(i) Completeness and Reliability:

The work is complete as called for in the instructions. The work southward from triangulation station Ache 1901-1923 was done with great care as far south as triangulation station Oeste 1938. The topography southward from Oeste 1938 was done with some haste due to the fact that the weather was threatening and it is seldom that work can be done on this particular stretch of shoreline. It was therefore necessary to get the work done while we had the chance. It is thought that, while the work south of station Oeste 1938 is not quite up to the standard the topographer usually attempts to maintain, it will be found of quality sufficiently good to be considered perfectly dependable for charting purposes. The work as ^{to} a traverse needs no adjusting, but some long shots were taken, and it is because of this fact that the possibilities of minor inaccuracies in this part of the work is mentioned at all.

(j) Methods Used in Surveying:

The method of surveying conformed to standard practices. ✓

(k) Junctions With Previous Work:

~~T-2570~~
The 1:40,000 scale 1901 topography is all the work we have with which to compare our 1938 topography. The junction at triangulation station Ache 1901-1923 is of course in agreement, but we have no junction at the south end to check with. Topography on the sheet was carried to and beyond the southernmost extremity of the island as called for in the instructions.

(l) Geographic Names

No new geographic names were used. All names were taken from chart no. 8304, and are well established. ✓

(m) Comparison With Old Surveys:

Covered in section (h) of this report.

(n) Character of Marshes and Low-lying Ground:

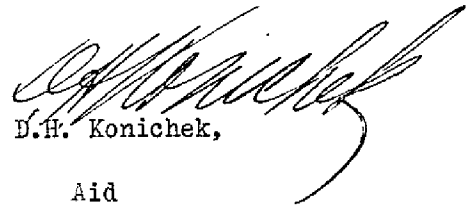
There is no marsh or low ground on this sheet. ✓

(o) Statistics:

Sheet no. Registry T-6626
Field B-1938

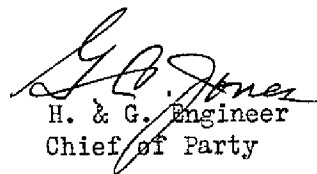
4.8 statute miles of shoreline.

Respectfully Submitted,



D.H. Konichek,
Aid

Approved and forwarded



H. & G. Engineer
Chief of Party

Remarks

Decisions

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GEOGRAPHIC NAMES

Survey No. T-6626

Name on Survey	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
<u>Inian Islands</u>										1
<u>Cross Sound</u>										2
<u>North Inian Pass</u>										3
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Names underlined in red approved
by L. Heck on 6/29/39

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT

~~PROPOSED~~

~~xxxxxx~~

No. T -6626

received **Mar. 18, 1939**
registered **June 15, 1939**
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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RETURN TO

82	T. B. Reed
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✓ JBR

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. T-6626

Field No. B-1938

S. E. Alaska, Cross Sound, Inian Islands
Surveyed July 1938; Scale 1:10,000
Instructions dated March 10, 1938

Plane Table Survey

Aluminum Mounted

Chief of Party - H. Arnold Karo
Surveyed by - D. H. Konichek
Inked by - D. H. Konichek
Reviewed by - R. H. Carstens
Inspected by - H. R. Edmonston, April 6, 1943

1. Junctions with Contemporary Surveys

There are no contemporary adjoining surveys.

2. Comparison with Prior Surveys

T-2569 (1891) 1:20,000

T-2570 (1891) 1:40,000

T-2619 (1892) 1:40,000

Only short sections of the shoreline fall within the limits of these prior surveys. There are differences in the position of the shoreline of 30-50 meters which are probably caused by the greater generalization and sketching on the smaller scaled surveys. The form lines from T-2569 in Lat. $58^{\circ}15.5'$; Long. $136^{\circ}23.4'$ are about 200 meters offshore from the present shoreline and are out of position considerably. The form lines should be made to conform with the present shoreline in charting this area. The present survey is drawn with greater detail than the earlier surveys and should supersede them within the overlap.

3. Comparison with Chart 8304 (latest print date 1-25-43)

a. Topography

The charted topography originates with the present survey and is correctly charted.

b. Aids to Navigation

The survey positions of aids to navigation falling within the limits of the present survey are in agreement with their charted positions.

- c. The magnetic meridians determined by the present survey are in satisfactory agreement with the charted values.

4. Condition of Survey

Satisfactory.

5. Compliance with Instructions for the Project

Satisfactory.

6. Additional Field Work Recommended

At a convenient time it would be desirable to have a determination of the form lines within the limits of the present survey. The form lines from T-2569 (1901) are in disagreement with the shoreline of the present survey.

7. Superseded Surveys

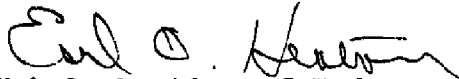
T-2569 (1901)


T-2619 (1902)

Examined and approved:


Chief, Surveys Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of
Coastal Surveys