

6625

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-6625
Hydrographic } Sheet No. Field No. A-1938

State S.E. Alaska

LOCALITY

Chichagof Island

Elfin Cove

1938

CHIEF OF PARTY

H. Arnold Karo

U. S. GOVERNMENT PRINTING OFFICE

6625

Applied to Insert (El Fin Core.) Chrt. 8304 Rec. 11/39 &K

Applied to Chart 8304 (main chart) 12/19/39 - JFW

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 forwarded to the Office.

Field No. A-1938

REGISTER NO. T-6625 **T6625**

State S.E. Alaska

General locality ~~Icy Strait - Port Althorp~~ Chichagof Island

Locality Elfin Cove

Scale 1-5,000 Date of survey May, 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 H.W.L. ~~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 was used on all topographic sheets executed in 1938 which includes sheets having field no's, ^{T-6625} 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 the compass declinatoire.

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 of objects bare at all stages of the tide were obtained by estimating the height above H.W.L.

All estimations of height were made with a direct comparison with the length of the telemeter rod, and 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-6625, Field A-1938

Port Althorp - Elfin Cove, 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 land in the vicinity of Elfin Cove is rather low but the shore line is rather steep and cut-up. The cliffs just to the north of the entrance to the cove, indicated on the topographic sheet can be readily indentified from off shore. The island at the entrance to the cove, as well as Elfin Cove Light (Est. 1933) mark the channel well enough so that strangers should experience no difficulty in locating the approach to the entrance.

(c) Landmarks:

There are no landmarks other than Elfin Cove Light (Est. 1933). Since leaving the field, the Lighthouse Dept. has established two day beacons marking the entrance channel.

(d) Character of Control Used:

Triangulation was continued from stations located in 1901, and control was established in the cove and vicinity, as described in the 1938 triangulation and season reports.

(e) Closing Errors of Traverse Run:

The control points were numerous enough to eliminate any extensive traverses, and there are no errors in the topog-

raphy. No adjustment was necessary. ✓

(f) Description of Auxiliary Survey Methods: ✓

There were none.

(g) Form Lines:

The instructions did not require form lines on this sheet. ✓

(h) Changes in Topography:

The 1:20,000 topographic survey executed in 1901 ✓
seems to agree with the 1938 topography in essentials, but *See par. 3 of Review.*
the lack of necessary detail on the old survey precludes any
comprehensive comparison with the work done in 1938 on a
1:5,000 scale.

(i) Completeness and Reliability:

All topography is complete and reliable. No attempt
was made to join with the old work. The 1938 work ended so close
to the control points that any failure to join must necessarily
be regarded as an inaccuracy in the 1901 topography due to the
lack of control and the scale used.

(j) Methods used in Surveying:

The methods of surveying conformed to standard
practice.

(k) Junctions with Previous Work:

See section (i) of this report.

(l) Geographic Names:

All charted names were taken from Chart # 8304, and
the name of Elfin Cove is well established.

(m) Comparisons With the Old Surveys:

Covered in section (h) of this report.

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

There is none within the area of the sheet.

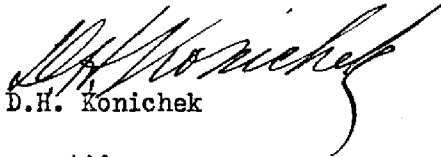
(o) Statistics:

Sheet No. Registry T-6625

Field A-1938

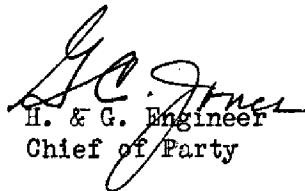
4.8 statute miles of shore line.

Respectfully Submitted,


D.H. Konichek

Aid

Approved and Forwarded:


H. & G. Engineer
Chief of Party

GEOGRAPHIC NAMES

Survey No. T-6625

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>Chichagof Island</u>										1
<u>Port Althorp</u>										2
<u>Elfin Cove</u>										3
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Names underlined in red approved
by L. Heck on 7/5/39

T-6625

Remarks

Decisions

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MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT } ~~NOTED~~
~~PHOTO STATION~~ } No. T-6625

{ 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

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6625 (1938) FIELD NO. A-38

Elfin Cove, Chichagof Island, Southeast Alaska
Surveyed in May, 1938, Scale 1:5,000
Instructions dated March 10, 1938 (WESTDAHL)

Plane Table Survey

Aluminum Mounted

Chief of Party - H. A. Karo
Surveyed by - D. H. Konichek
Inked by - D. H. Konichek

1. Junctions with Contemporary Surveys

There are no contemporary surveys which join the present survey.

2. Junction with Prior Survey

No difficulty in charting will be encountered in making the junction of the present survey and T-2569 (1901).

3. Comparison with Prior Surveys

T-2569 (1901) Scale 1:20,000

The present survey falls entirely within the limits of T-2569 (1901).

The general shoreline features are borne out in greater detail by the present survey.

The rock awash in Lat. $58^{\circ}11.84'$, Long. $136^{\circ}20.75'$ originates with T-2569 (1901) and is not shown on the present survey. Because of the small scale the rock, as charted (chart 8304), appears to be in the middle of the channel east of the largest of the two heavily wooded islands at the entrance to Elfin Cove. There is no evidence in the hydrographic records (H-6336-1938) that this rock was searched for. The stage of the tide was from 7 to 8 feet at the time the soundings were taken in this location, and a rock awash at a low stage of the tide would not have been visible. In view of these circumstances and the rocky character of this area the rock is carried forward to the present survey.

No works of man appear on the old survey in the vicinity of Elfin Cove, whereas several docks, buildings and roads are located by the present work.

Form lines on T-2569 (1901) fall outside of the area covered by the present survey.

Many more rocks and reefs are located on the present survey and because of its greater detail on a much larger scale, except for the rock awash mentioned above, should supersede T-2569 (1901) for charting the common area.

4. Comparison with Chart No. 8304 (New Print dated Dec. 1, 1938)

(a) Topography

Within the area of the present survey the chart is based on T-2569 (1901), discussed in paragraph 3 of this review and contains no additional information which needs consideration.

(b) Aids to Navigation

In paragraph "c" of the descriptive report it is stated that two day beacons were established by the Lighthouse Service after the party left the field, (L.H.N. to M. No. 41 1938) consequently no day beacons are shown on the survey, and due to the small scale of the chart only one is shown thereon. The location of Elfin Cove lighted beacon is the same as the charted position and satisfactorily marks the feature intended.

5. Condition of Survey

(a) The descriptive report is satisfactory.

(b) The field drafting is very good.

6. Compliance with Instructions for the Project

The survey satisfies the instructions for the project.

7. Additional Field Work Recommended

No additional field work is required.

8. Superseded Prior Surveys


In so far as the topography included on the present survey is concerned, the present survey supersedes the following survey for charting purposes:


T-2569 (1901) in part

9. Reviewed by Leo S. Straw, June 22, 1939.


Inspected by - H. R. Edmonston

Examined and approved:


T. B. Reed,
Chief, Section of Field Records


Fred. L. Peacock
Chief, Section of Field Work

K.T. Adams
Chief, Division of Charts


Chief, Division of H. & T.