

7997

Diag. Cht. No. 8859

25-344

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. SU-2252 Office No. H-7997

LOCALITY

State Alaska

General locality Southwest Alaska

Locality Alaska Peninsula-East Side Stepovak

Bay

19452-53

CHIEF OF PARTY

J.C. Bose

LIBRARY & ARCHIVES

DATE

7997

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H-7997

Field No. SU-2252

State Alaska

General locality ~~Southwest Alaska~~ - Alaska Peninsula, ~~South Side~~ ^{EAST}

Locality East side Stepovak Bay

Scale 1:20,000 Date of survey 18 & 2 Sept. 1953
24 July - 21 September 1952

Instructions dated 8 March 1951; Supplemental 17 March 1952

Vessel SURVEYOR - ML No. 3 and No. 4

Chief of party J. C. Bose

Surveyed by John C. Bull and William R. Kachel, FX Popper and J. P. Lushene

Soundings taken by fathometer, graphic recorder, ~~hand recorder~~

Fathograms scaled by James D. Hodges, FX Popper

Fathograms checked by Dan L. Wheeler, J.D. Hodges

Protracted by Raymond H. Tryon, Jr. and Steven L. Hollis, Jr. G.T. Thompson

Soundings penciled by Wm. M. Martin, G.T. Thompson

Soundings in fathoms ~~XXX~~ at ~~XXXXX~~ MLLW and are based on a velocity of sound of 800 fms. per sec.

REMARKS: _____

FEB 2 1954

Form 537
(Ed. June 1946)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H-7997

Field No. SU-2252

NOTE:
(Also see 1952 season
Title sheet)

State Alaska

General locality Alaska Peninsula - ~~South Side~~

Locality East side Stepovak Bay

Scale 1:20,000 Date of survey 1 and 2 September 1953

Instructions dated 8 Mar. 1951, Supp. Inst's 17 Mar. 1952 and 8 Apr. 1953

Vessel SURVEYOR and Launch No. 3

Chief of party J. C. Bose

Surveyed by F. X. Popper and J. P. Lushene (also see 1952 Title sheet)

Soundings taken by fathometer, graphic recorder, hand lead, ~~etc~~

Fathograms scaled by F. X. Popper

Fathograms checked by J. D. Hodges

Protracted by Gordon J. Thompson

Soundings penciled by Gordon J. Thompson

Soundings in fathoms ~~MLLW~~ at ~~MLLW~~ MLLW (and are based on a velocity of sound of 800 fms/sec.)

REMARKS: Additional work done in 1953 to be protracted by Washington Office.

SPZ

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC
SURVEY H-7997 (FIELD NO. SU-2252)

Alaska Peninsula, South Side
Southwest Alaska

1952

Scale - 1:20,000

J. C. Bose, Chief of Party

USC&GSS SURVEYOR
Launches No. 3 & 4
John C. Bull & William R. Kachel - Hydrographers

A. PROJECT:

Original instructions for Project CS-344 dated 8 March 1951 and supplemental instructions dated 17 March 1952 to the Commanding Officer, Ship SURVEYOR, were followed.

B. SURVEY LIMITS AND DATES:

This survey covers the inshore areas of the northeast portion of Stepovak Bay on the south side of the Alaskan Peninsula in southwest Alaska. It extends from latitude $55^{\circ} 40.5' N$ to latitude $55^{\circ} 51.5' N$ and longitude $159^{\circ} 37.5' W$ to longitude $159^{\circ} 52.0' W$, except for certain portions in deeper water surveyed on Sheet SU-4152 (H-7999). Field work was started on 24 July 1952 and ended on 21 September 1952.

Junction is made with contemporary surveys H-7996, H-7998, and H-799~~7~~⁴ (1952) (1952-53) (1952-53) (1952)

C. VESSELS AND EQUIPMENT:

The Ship SURVEYOR and motor launches No. 3 and No. 4 operating from the ship were used on this survey.

The SURVEYOR, equipped with Model 808 depth recorder No. 128-S, was used on a few splits west and northwest of Island Bay and near the north end of Stepovak Bay.

Launch No. 3, equipped with Model 808 depth recorder No. 56, was used for the inshore hydrography in Island Bay, Ramsey Bay, and adjacent areas.

Launch No. 4, equipped with Model 808 depth recorder No. S-110, was used for the inshore hydrography in the northeast portion of Stepovak Bay, connecting with the above-mentioned areas worked by Launch No. 3.

The turning radius of the launches is approximately 20 meters at sounding speed and that of the SURVEYOR about 400 meters.

D. TIDE AND CURRENT STATIONS:

Data obtained from the Fox Bay portable tide gage, latitude $55^{\circ} 37.95' N$, longitude $159^{\circ} 37.25' W$, and the Dent Point portable tide gage, latitude $55^{\circ} 46.97' N$, longitude $159^{\circ} 52.78' W$, were used to reduce soundings on this sheet. (*Fox Bay tide does not fall within limits of H-7997*)

Since no time or range correction was found necessary between the gages at Fox Bay and Dent Point, the data from these gages were used interchangeably where absence of records at one gage made it necessary to use the other. Refer to letter from Director (36-rcb) dated 8 September 1952.

E. SMOOTH SHEET:

The smooth sheet projection was made by hand at the Seattle Processing Office. The shoreline and topographic detail were penciled and verified by the Seattle Processing Office in accordance with paragraph 757 of the Hydrographic Manual.

F. CONTROL STATIONS:

The positions of the triangulation stations used for control on this sheet were obtained from the "List to Geographic Positions of Triangulation Stations Anchorage to Attu Island, Alaska, Volume V".

All topographic signals on this survey were located by planetable graphic control. (See Topographic Descriptive Report, SURVEYOR 1952, field sheets Nos. SU-D, E & F). *GC sheets marked for destruction*

For a discussion of accuracy of locations and comparisons with identical points as shown on the film positives of topographic manuscripts, refer to the Topographic Descriptive Report, SURVEYOR 1952.

All locations are considered accurate for good position location of soundings.

G. SHORELINE AND TOPOGRAPHY:

The shoreline and topographic detail were obtained from the photographic compilation sheets ⁽¹⁹⁴¹⁻⁴²⁾ T-8469, T-8831, and T-8832. ⁽¹⁹⁴¹⁻⁴²⁾ Generally the shoreline and location of off-lying rocks is very good. (See discussion of shoreline variations in the Topographic Descriptive Report, SURVEYOR 1952). *See PI of Review*

No discrepancies in the location of off-lying rocks as shown on T-8832 and T-8831 and the boat sheet were noted. This should be checked upon completion of the smooth sheet.

It was impractical to delineate the low water line on this sheet except in the vicinity of the sand beaches because the shoreline is generally littered with boulders and off-lying rocks which could not be approached without danger to life and property.

H. SOUNDINGS:

All soundings were taken with 808J depth recorder equipped with tachometer reeds calibrated for a velocity of 800 fathoms per second. Standard methods to determine initial, index, phase, and tide corrections were followed.

A leadline was used for drift leading, obtaining shoal depths, and for bottom samples. All soundings obtained with the leadline were recorded in fathoms and tenths.

I. CONTROL OF HYDROGRAPHY:

Standard methods for visual controlled hydrography were used throughout the survey of this sheet.

J. ADEQUACY OF SURVEY:

The survey on this sheet is complete and adequate to supersede prior surveys for charting.

The junctions with adjoining surveys are satisfactory and the depth curves can be adequately drawn at the junctions.

No nonstandard depth curves were used on this sheet.

K. CROSSLINES:

Approximately 9 percent of the lines run were crosslines. An examination of the boat sheet indicates that all soundings at crossings are satisfactory and fall within the requirements of Paragraphs 3571 and 7771 of the Hydrographic Manual.

L. COMPARISON WITH PRIOR SURVEYS:

Comparison with prior surveys H-7169 (1946), 1:80,000; and H-3722 (1914), 1:100,000 Reconnaissance and the boat sheet were satisfactory.

M. COMPARISON WITH CHART:

Comparison with chart 8859 and the boat sheet were satisfactory.

N. DANGERS AND SHOALS:

The following are newly found dangers or shoals:

	<u>Latitude</u>	<u>Longitude</u>	<u>Least Depth</u>
Shoal	55° 43.20' N	159° 41.57' W	0.9 fms.
Shoal	55° 44.56' N	159° 40.94' W	1.7 fms.
Shoal	55° 47.50' N	159° 50.75' W	0.3 fms.

There are no reported uncharted dangers or shoals. There are no charted dangers or shoals on which least depths are less than those found on the new survey.

All charted dangers, shoals, and bare rocks were found as charted, or shoaler depths were found.

0. COAST PILOT INFORMATION:

The general description of this area as given in the Coast Pilot, Part II - Yakutat Bay to Arctic Ocean - page 304-306 is satisfactory. The area is generally free of dangers except those noted.

DETAILED COAST PILOT NOTES ARE AS FOLLOWS:

Page 305 - Lines 7-9 in supplement: Change "6 to 8 fathoms" to read "3 to 6 fathoms". Change "1 fathom" to read "4 feet".

Page 305 - Lines 17-20. Delete all following "island" and substitute: "A submerged pinnacle having a depth of 5 feet lies 0.9 mile 193° true from Pad Island. Another pinnacle having a depth of 1.5 fathoms lies 0.4 mile 017° true from the island. A large shoal having a general least depth of 5 fathoms lies 1.3 miles 354° true from Pad Island."

Page 305 - Lines 33-35. Delete all following "consists of" and substitute: "two barren rocks, the southern of which is about 25 feet high and the northern about 4 feet. From southerly directions they appear light colored against a dark hill background. Reefs join the two rocks. Water inshore from the rocks is shoal and should be avoided."

Page 305 - Lines 39 and 40. Delete remainder of sentence after "is located", and substitute "1.3 miles west of Gull Island."

Page 305 - Lines 46 and 47. Delete all after "ing" and substitute: "Anchorage for small vessels is 0.3 mile south of Bales Landing in 5 to 10 fathoms, green mud bottom. This anchorage is exposed to southerly weather."

Page 306 - Lines 1 and 2: Delete all through "7 fathoms".

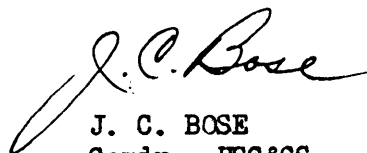
Page 306 - Lines 6-8: Delete paragraph and substitute: "The shore from Ramsey Bay south to Dent Point is steep and rocky. At the north end of this stretch of steep shore is a rocky headland. Three rocks and a reef are bare from 1 to 4 feet at MLLW out to a distance of 0.2 mile southeast of this headland."

APPROVAL SHEET

The smooth sheet, sounding volumes, and fathograms have been given a final inspection of a general nature and are approved.

The boat sheet was inspected at the end of each day's work while the field work was in progress.

I consider the survey adequate and complete.



J. C. BOSE
Comdr., USC&GS
Comdg., USC&GSS SURVEYOR

H 7997
Su 2252
Alaska Peninsula
Stepovak Bay

Processing Office Notes.

The smooth sheet was prepared by the Seattle Processing Office; positions plotted by officers of the SURVEYOR; soundings plotted by Processing Office.

Smooth sheet.

The projection was ruled by hand on a cut sheet of paper, brand not known. T-8832 (1941-42)

Topography is from graphic control sheets, Su-D-E-F-52 and from inspected photo topo T 8831 and T 8832. West of λ 159° 50' part of the shoreline is from the uninspected T 8469 which was fitted to work of graphic control sheet Su-F-52.

All shoreline from photo topo was left in pencil; that from graphic control sheets was inked. (inked in Wash. Office)

At Sin in the northeast part of Stepovak Bay you will observe that the shoreline of the graphic control sheet is slightly out of agreement with the older photo topo. This is due to the changeable character of the beach area. graphic control shoreline shown on smooth sheet

All topographic signals are from the graphic control sheets. GP's are from pages 346, 347, 357, 362 & 366 Adjusted Triangulation, Alaska Vol.5.

Low-water line.

LWL has not been traced on the smooth sheet. Sounding lines did not cross LWL and the line was not sketched by the field party. The line drawn on the photo topo sheets often indicates ledges, reefs and the apparent limits of foul areas. It is suggested that the inspected air photographs be re-examined with the sounding sheet at hand and the LWL be drawn to agree with hydro sheet and photograph.

Photos taken 4-7 ft above MLLW low-water line not visible.

Rocks along the shore have been added from the boatsheet.

Depth curves.

The depth curves of this sheet are in agreement with those of H 7996 and H 7998. They are also in agreement with soundings of H 7999 but the ends of the curves on H 7999 (now in Washington) will need slight changes to fit H 7997.

Along the southeast limit of H 7997 at the junction with H 7996, the depths of H 7997 are about a fathom deeper.

not Depths in adequate agreement at junctions

Edgar E. Smith
Cart. Engr.

20 May 1953

7997

TIDE NOTE

1952

Two tide gages were used to reduce the soundings on this sheet. The Fox Bay portable tide gage located at latitude $55^{\circ} 37.95'$ N, longitude $159^{\circ} 37.25'$ W, MLLW on staff 3.6 feet, and the Dent Point portable tide gage located at latitude $55^{\circ} 46.97'$ N, longitude $159^{\circ} 52.78'$ W, MLLW on staff No. 1 used until 12 August 1952 2.5 feet; MLLW on staff No. 2 used from 12 August 1952 to end 3.5 feet. (*Fox Bay tide gage does not fall within limits of H-7997*)

No time or range corrections were applied in reducing the soundings and the two gages were used interchangeably where absence of records at either one made this necessary. Refer to Director's letter (36-rcb) dated 8 September 1952, attached.

C O P Y

Refer to No. 36-rcb

AIR MAIL

8 September 1952

To: The Commanding Officer
U.S.C. & G.S. Ship SURVEYOR
705 Federal Office Building
Seattle 4, Washington

Subject: Tide Data, Alaska

Tide data requested in your letter of 27 August 1952 are as follows:

Station	MLLW Feet 1952 staff	MTL Feet 1952 staff	Mean range Feet
Kupreanof Hbr.	4.2	8.3	5.6
Ivanof Bay	5.1	9.2	5.6
Fox Bay	3.6	7.7	5.5
Dent Point (Staff #1)	2.5	6.5	5.4
(Staff #2)	3.5	7.5	

In verification of the preliminary computations referred to in your letter, office computations show little difference in time or range of tide at these stations. Therefore, it will not be necessary to indicate areas to be controlled by the different gages. (Tide reducer may be taken from the nearest gage). In case of missing or defective record at any station the records at the other station may be considered interchangeable without modification in either time or height.

/s/ F. L. Gallen
Acting Director

LAUNCH NO. 3

Day Letter	Volume Number	Date	H.L. or W.S.	Number of Pos'ns	Statute Miles of Sounding
a	1	24 July 1952	0	120	19.4
b	1	25 July 1952	0	149	26.4
c	1 & 2	28 July 1952	0	100	23.2
d	2	29 July 1952	0	171	29.7
e	2 & 3	11 Aug. 1952	1	78	12.9
f	3	12 Aug. 1952	1	180	26.5
g	3 & 4	13 Aug. 1952	1	165	33.1
h	4	14 Aug. 1952	0	105	20.4
j	4 & 5	1 Sept. 1952	0	179	33.3
k	5	2 Sept. 1952	0	164	23.5
l	5	21 Sept. 1952	0	13	0.0
Totals. . .			3	1424	248.4

LAUNCH NO. 4

a	6	29 July 1952	0	205	53.0
b	6 & 7	11 Aug. 1952	0	150	26.6
c	7	12 Aug. 1952	0	214	48.9
d	8	13 Aug. 1952	0	175	37.5
Totals. . .			0	744	166.0

SURVEYOR

A	9	8 Aug. 1952	0	88	23.1
B	9	6 Sept. 1952	0	38	9.8
Totals. . .			0	126	32.9

1952

TOTALS FOR SHEET . . . 6 2294 447.3

Area 40.2 sq. statute miles.

TOTALS FOR 1953	3	178	38.6
TOTAL FOR SURVEY	9	2472	485.9

Supplemental DESCRIPTIVE REPORT to Accompany
HYDROGRAPHIC SURVEY H-7997 (FIELD NO. SU-2252)

Alaska Peninsula, South Side Southwest Alaska

Scale - 1:20,000

1953

J. C. Bose, Chief of Party

USC&GSS SURVEYOR and Launch No. 3

A. PROJECT:

Original instructions for Project No. CS-344 dated 8 March 1951, and supplemental instructions dated 17 March 1952 and 8 April 1953 to the Commanding Officer, Ship SURVEYOR, were followed. Field work done in 1953 is to be protracted by the Washington Office.

B. SURVEY LIMITS AND DATES:

This survey covers the development of shoals along the north and east sides of Stepovak Bay and the running of split lines of soundings in the center of Stepovak Bay, as required in the supplemental instructions dated 8 April 1953, listed as follows:

<u>Latitude</u>	<u>Longitude</u>
55° - 44.35'	159° - 41.5'
44.49'	41.3'
42.8'	39.8'
46.55'	39.85'
50.6'	43.95'
46.4'	44.1'

The work done at the last of the above positions was listed in the supplemental instructions to be done on Sheet No. H-7997 (SU-4152), but to give a better scale in a congested area and to eliminate another boat sheet the work was done on this sheet.

C. VESSELS AND EQUIPMENT:

Field work was done on 1 and 2 September 1953 from the Ship SURVEYOR and from Launch No. 3 with Lt. Comdr. F. X. Popper in charge.

Model 808 depth recorders were used; No. 128-S on the Ship SURVEYOR, and No. 47-S on Launch No. 3.

Fathometer data and corrections for this work will be found in the Fathometer Report, Ship SURVEYOR, Project CS-344. *SHS 948 (S-3062) Library*

D. TIDE AND CURRENT STATIONS:

Reference is made to the Director's letter, file number 36-rjb, dated 24 September 1953, which stated that the observed tides from the Sand Point, Alaska, gage were to be used, and that no corrections were necessary for height or time differences. Hourly heights were supplied by the Washington Office.

E. SMOOTH SHEET: ✓

The development done in 1953 is to be plotted by the Washington Office. Reference Director's letter, file No. 22/MEK, S-1-SU, dated 12 January 1954. ✓

1953 work plotted in Wash. Office.

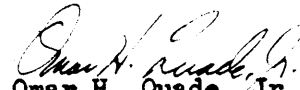
F. CONTROL STATIONS: ✓

All stations used for hydrography were 1952 stations recovered in 1953, except for existing triangulation of an earlier date. Only three signals were visited and rebuilt, the remainder of the signals were whitewashed and enough of the white-wash was visible to use as a signal. ✓


A list of signals used and their source will be found in Vol. No. 10. ✓

G through Z. Not applicable or no change. ✓

Respectfully submitted:


Omar H. Quade, Jr.
Lieut. (j.g.), USC&GS

Forwarded:


Henry J. Healy
Commander, USC&GS
Comdg., USC&GSS SURVEYOR

STATISTICS FOR HYDROGRAPHIC SURVEY H-7997 (1953)
 USC&GSS SURVEYOR

CS-344

Vessel	Day Letter	Volume Number	Date	HL or W.S.	Number of Positions	Statute Miles of Sounding
SURVEYOR	C	10	1 Sept. 1953	0	60	18.7
SURVEYOR	D	10	2 Sept. 1953	0	1	0.0
Launch No. 3	m	11	1 Sept. 1953	3	73	13.0
Launch No. 3	n	11	2 Sept. 1953	0	44	6.9
				3	<u>178</u>	<u>38.6</u>

c o p y

36-rjb

24 September 1953

To: The Commanding Officer
U.S.C.&G. S. Ship SURVEYOR
705 Federal Office Building
Seattle 4, Washington

Subject: Tide data, Alaska

With further reference to your letter of 10
September 1953 there are enclosed for the periods
listed hourly heights for the reduction of soundings
in the area of Sheets H-7998, H-7997, H-7996 and
H-7923. These heights are based on observed tides
at Sand Point and can be used as tide reducers with-
out further correction for either time or height of
tide.

/s/ Robert W. Knox

Acting Director

Enclosures

c o p y

22/MEK
S-1-SU

12 January 1954

To: Commanding Officer
USC&GS Ship SURVEYOR
705 Federal Office Building
Seattle 4, Washington

Via: Supervisor, Northwestern District

Subject: Plotting 1953 Field Work on Hydrographic
Sheets Completed in Previous Years

In reply to your letter of 8 January 1954 the 1953 field
work accomplished on hydrographic sheets H-7923, H-7996, H-7997
(1951-53) (1952-53) (1952-53)
(1952-53)
and H-7998 will be plotted by the Washington Office. The field
records for the work on these sheets shall be sent to the
Washington Office.

/s/ Robert W. Knox
Acting Director

cc. Supervisor, Northwestern District
Chief, Nautical Chart Br., Chart Div.

APPROVAL SHEET

The additional work on this sheet was accomplished under the direction of CDR. J. C. Bose. The records for this additional work are complete. The additional work adequately covers the instructions and should be considered complete.



HENRY J. HEALY
Commander, USCGS
Comdg. USC&GSS SURVEYOR

RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

Division of ~~Coastal~~ ~~Surveys~~

17 June 1953

Division of Charts: R. H. Carstens

Plane of reference approved in 9
volumes of sounding records for

HYDROGRAPHIC SHEET 7997

Locality Alaska Peninsula, Alaska

Chief of Party: J. C. Bose in 1952
Plane of reference is mean lower low water, reading
3.6 ft. on tide staff at Fox Bay
12.6 ft. below B. M. 1 (1952)

2.5 ft. on tide staff at Dent Point
11.0 ft. below B. M. 1 (1952)

Height of mean high water above plane of reference is as follows:

Fox Bay = 6.9 feet
Dent Point = 6.8 feet

Condition of records satisfactory except as noted below:

E. C. McKay
Section of Tides
Chief, Division of Tides and Currents.

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coastal Surveys:~~

10 February 1954

Division of Charts: R. H. Carstens

Plane of reference approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 7997 Add. Wk.

Locality South Side of Alaska Peninsula

Chief of Party: J. C. Bose in 1953
Plane of reference is mean lower low water, reading
4.0 ft. on tide staff at Sand Point
18.5 ft. below B. M. 5 (1943)

Height of mean high water above plane of reference is 6.5 feet.

Condition of records satisfactory except as noted below:

E. C. McKay
Section of Tides
Chief, Division of Tides and Currents.

GEOGRAPHIC NAMES

Survey No. H-7997

Name on Survey	Source										
	A	B	C	D	E	F	G	H	K		
<u>Alaska</u>											1
<u>Alaska Peninsula</u>										B6X	2
<u>Stepovak Bay</u>										"	3
<u>Island Bay</u>											4
<u>Pad Island</u>											5
<u>Gull Rock</u>											6
<u>Stepanof Flats</u>				(land)							7
<u>Ramsey Bay</u>				(not Ramsay)							8
<u>Dent Point</u>				(tide station)							9
<u>Granville Cove</u>											10
										(Names underlined in red are approved.)	11
										6-26-53. h. Heck	12
										(All names except Granville Cove are on chart 8259).	13
											14
											15
											16
											17
<u>Fox Bay</u>				(tide station)							18
											19
											20
											21
											22
											23
											24
											25
											26
											27

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7997....

Records accompanying survey:

1 (1953) ✓ 2 (1953)
 Boat sheets; sounding vols.; wire drag vols.;
 bomb vols.; graphic recorder rolls ✓ 1 Env. (1953) ✓ 3 Env. (1952)
 special reports, etc. 1 Smooth Sheet; 1 Descriptive Report, 1952 & 1 Descriptive
 Report-1953 filed together;

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	2472
Number of positions checked	34 (178 plotted)
Number of positions revised	0
Number of soundings revised (refers to depth only)	51
Number of soundings erroneously spaced	6
Number of signals erroneously plotted or transferred	0
Topographic details	Time 15 hrs
Junctions	Time 10½ hrs
Verification of soundings from graphic record	Time 4 hrs

Verification by *Gordon J. Thompson* Total time 140 hrs. Date 9 Dec. 54

Reviewed by *A. Jeskind* Time 30 Date Jan. 3, 1955

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

REGISTRY No. *Applied to H-7997*

Field No. *SU-E-52*

Scale *1:20,000*

State *Alaska* General locality *Alaska Peninsula - South Side*

Specific locality *Stepovak Bay*

Dates: Survey began *July 1952* Completed *August 1952*

Photography _____, Supplemented by ground surveys to _____

Project No. *CS-344* Instructions dated *8 March 1952*

Vessel } or *SURVEYOR* Chief of party *J. C. Bose*
Party }

Field work by *D. H. Konichek* Office work by *D. H. Konichek*

Final inking by *D. H. Konichek*

Ground elevations } in feet above { *M. H. W.*
Treetop elevations } or { _____

Contours } by { *Planetable* } Interval _____ ft.
Approximate contours } { *Multiplex* }
Form lines } { _____ }

REMARKS *The magnetic variation at A Step, 1946, at 1526,
July 23, 1952, is 17°06'E.*

Applied to H-7997

See H-7998 for DR

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7997

FIELD NO. SU-2252

Alaska, Alaska Peninsula, East Side Stepovak Bay

Project CS-344

Surveyed - July, 1952 - Sept., 1953

Scale 1:20,000

Soundings:

Control:

808 Fathometer
Leadline

Sextant fixes on
shore signals

Chief of Party - J. C. Bose

Surveyed by - J. C. Bull, J. P. Lushene, F. X. Popper and
W. R. Kachel

Protracted by - R. H. Tryon, Jr., S. L. Hollis, Jr., and
G. J. Thompson

Soundings plotted by - W. M. Martin and G. J. Thompson

Verified and inked by - G. J. Thompson

Reviewed by - I. M. Zeskind 1/3/55

Inspected by - R. H. Carstens

1. Shoreline and Control

The shoreline originates with unreviewed air-photographic surveys T-8831, T-8832 and T-8833 of 1941-42 and T-8469 of 1942, supplemented by shoreline in red from graphic control surveys SU-D, E and F-52. The photographs of T-8469 were not field inspected. Graphic control surveys SU-D, E and F-52 have been entirely applied to the present survey and adjoining survey H-7996 (1952) and are marked for destruction.

The source of the control is given in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated except close inshore where the foul area and inshore dangers prevented

development to the low-water line.

The bottom is very irregular and generally slopes abruptly from shore to 10-fm. depths. Submarine features such as ledges, reefs, shoals, pinnacles and deeps contribute to the bottom irregularity.

4. Junctions with Contemporary Surveys

An adequate junction was effected with H-7996 (1952-53) on the southeast. The junctions with H-7999 (1952) covering the central portion of Stepovak Bay and with H-7998 (1952-53) on the southwest will be considered in the reviews of those surveys.

5. Comparison with Contemporary Surveys

H-3722 (1914), 1:100,000
H-7169 (1946), 1:80,000

These small-scale reconnaissance surveys only cover portions of the present survey. A comparison between the prior and present surveys reveals only minor differences in depths.

The present survey is adequate to supersede the prior surveys within the common area.

6. Comparison with Chart 8859 (Latest print date 5/31/54)

A. Hydrography

The charted hydrography originates with the present survey prior to verification and review. Except for the following charted soundings which were revised during verification and review no discrepancies between depths on the chart and the present survey were noted:

<u>Charted depth</u>	<u>Location</u>		<u>Present Survey</u>
<u>Fathoms</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Depth - fathoms</u>
38	55°48.68'	159°44.55'	36 ✓
2-3/4	55°45.40'	159°41.25'	4.8 ✓
31	55°46.9'	159°43.2'	29 ✓

B. Aids to Navigation

There are no aids to navigation within the limits of the present survey.

7. Condition of Survey

- a. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done.
- c. The high-water line from unregistered contemporary graphic control surveys which are subsequently to be destroyed was erroneously inked in black instead of red ink. The necessary revisions have been made in the Washington Office.

8. Compliance with Project Instructions

The present survey adequately complies with the Project Instructions.

9. Additional Field Work Recommended

This is a very good basic survey and no additional field work is recommended.

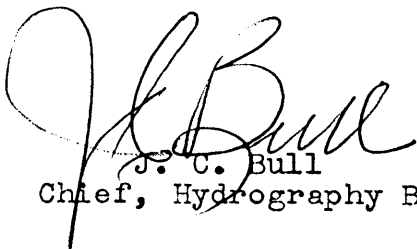
Examined and Approved:



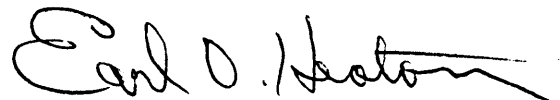
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Chart 8859

