7997

Diag. Cht. No. 8859

CS-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

19~~4~~52-53

CHIEF OF PARTY

J.C. Rose

LIBRARY & ARCHIVES

DATE

B-1870-1 (1)

7997

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

State Alaska

General locality ~~Southwest Alaska~~ - Alaska Peninsula, ~~South Side~~ East

Locality East side Stepovak Bay

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

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, F.X. Popper and J.P. Lushene

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

Fathograms scaled by James D. Hodges, F.X. 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 ~~feet~~ at ~~XXXXX~~ MLLW (and are based on a velocity of sound of 800 fms. per sec.

REMARKS:

U. S. GOVERNMENT PRINTING OFFICE 777032

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~~ East

Locality East side Stepovak Bay

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

Instructions dated 8 Mar. 1951, Supp. Inst'ns 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, ~~wire~~

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 ~~feet~~ 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.

U. S. GOVERNMENT PRINTING OFFICE 777032

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° 40.5' N to latitude 55° 51.5' N and longitude 159° 37.5' W to longitude 159° 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-7997.

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° 37.95' N, longitude 159° 37.25' W, and the Dent Point portable tide gage, latitude 55° 46.97' N, longitude 159° 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 T-8469, T-8831, and T-8832. (1941-42) & T-8833 (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 IPI 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 Reconnaisance 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:

	Latitude	Longitude	Least Depth
Shoal	55° 43.20'4 N	159° 41.57' W	0.9 ~~1.3~~ fms.
Shoal	55° 44.56'3 N	159° 40.9A' W	1.~~4~~ 3 fms.
Shoal	55° 47.50'3 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.

O. 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."

Page 306 - Line 10: After "Cape" insert: "A submerged rock covered 2 feet at MLLW is located 0.3 mile southeast of the shore and 1.1 miles northeast of the south tip of Dent Point."

Page 306 - Line 11: Change "1 mile" to read "0.5 mile."

P. AIDS TO NAVIGATION:

There are no aids to navigation, ferry routes, bridges, submarine cables or telegraph or telephone lines in this area.

Q. LANDMARKS FOR CHARTS:

The following landmarks for charts fall on this sheet:

1. Pad Island - A low grass-covered island at latitude 55° 44.1' N, longitude 159° 41.2' W.
2. Gull ~~Island~~ Rock - A small island, which shows light against a darker background when viewed from the south, at latitude 55° 50.6' N, longitude 159° 45.0' W. Rock on chart 8259

A report on "Landmarks for Charts" will be submitted on an area basis.

R. GEOGRAPHIC NAMES:

No new names appear on this sheet.

S. SILTED AREAS:

No silted areas were noted on the fathograms.

T. BY-PRODUCT INFORMATION: None.

U - Y. MISCELLANEOUS: None.

Z. TABULATION OF APPLICABLE DATA:

The following items have been or will be forwarded to the Washington Office:

Fathometer Report	~~Not yet~~ Submitted Nov 1952 (filed with H-7999) (CS-3062)
Coast Pilot Notes	Submitted 5 November 1952.
Landmarks for Charts	Not yet submitted.

Respectfully submitted:

John C. Bull

John C. Bull
Comdr., USC&GS

Forwarded:

J. C. Bose

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

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.

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.

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.

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.

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.

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° 37.95' N, longitude 159° 37.25' W, MLLW on staff 3.6 feet, and the Dent Point portable tide gage located at latitude 55° 46.97'N, longitude 159° 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

STATISTICS FOR HYDROGRAPHIC SURVEY H-7997 (1952)
USC&GSS SURVEYOR

CS-344

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

TOTALS FOR ~~SHEET~~ 1952 . .	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:

Latitude	Longitude
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-7999 (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 whitewash 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	178	38.6

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 without further correction for either time or height of tide.

(1952-53) (1951-52) (1951-52) (1951-52-53)

/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 (1952-53), H-7996 (1952-53), H-7997 (1952-53) and H-7998 (1952-53) 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, USC&GS
Comdg. USC&GSS SURVEYOR

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. Apr. 1950

RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

Division of Coast and Geodetic 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.

U. S. GOVERNMENT PRINTING OFFICE 877933

RHC

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. Apr. 1950

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coast and 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.

U. S. GOVERNMENT PRINTING OFFICE 877933

GEOGRAPHIC NAMES

Survey No. H-7997

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Alaska										1
Alaska Peninsula									B6X	2
Stepovak Bay									"	3
Island Bay										4
Pad Island										5
Gull Rock										6
Stepanof Flats		(land)								7
Ramsey Bay			(not Ramsay)							8
Dent Point			(tide station)							9
Granville Cove										10
					(Names underlined in red are approved. 6-26-53. L. Heck					11
										12
		(All names except Granville Cove are on chart 8259).								13
										14
										15
										16
										17
Fox Bay			(tide station)							18
										19
										20
										21
										22
										23
										24
										25
										26
										27

M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7997

Records accompanying survey:

Boat sheets 1(1953) 2(1952); sounding vols. 2(1953) 9(1952); wire drag vols. 0;

bomb vols. 0; 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 [signature] Time 30 Date Jan. 3, 1955

M-2232-1

Form 537a

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 / Party or SURVEYOR Chief of party J. C. Bose

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

Final inking by D. H. Konichek

Ground elevations / Treetop elevations in feet above { M. H. W. / or / ---------- }

Contours / Approximate contours / Form lines by { Planetable / Multiplex / ---------- } Interval ---------- ft.

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

Applied to H-7997

See H-7998 for DR

U. S. GOVERNMENT PRINTING OFFICE 16—38129-1

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
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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:

Charted depth	Location		Present Survey
Fathoms	Latitude	Longitude	Depth - fathoms
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:

H. R. Edmonston
Chief, Nautical Chart Branch

E. R. McCarthy
Acting Chief, Chart Division

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Chief, Hydrography Branch

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NAUTICAL CHARTS BRANCH

SURVEY NO. H-7997 (1952-53)

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
2/12/54	8859	SG McGann	Before ~~After~~ Verification and Review
			completely applied before verification and review including additional work. Add'l. work not yet plotted
			Before After Verification and Review
Oct. 1954	930v	G.H.E.	Before ~~After~~ Verification and Review
May 1955	880v	G.H.E.	Before ~~After~~ Verification and Review via 8859
11 July 60	8859	Nichols	~~Before~~ After Verification and Review Complete
30 Dec 60	880v	do	~~Before~~ After Verification and Review
			Thru 8859
3 Jan 61	930v	do	~~Before~~ After Verification and Review
			Thru 880v
2/25/75	16556	Hamilton	~~Before~~ After Verification and Review
5/9/78	16553	Van Zant	~~Before~~ After Verification and Review
			Thru 16556
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

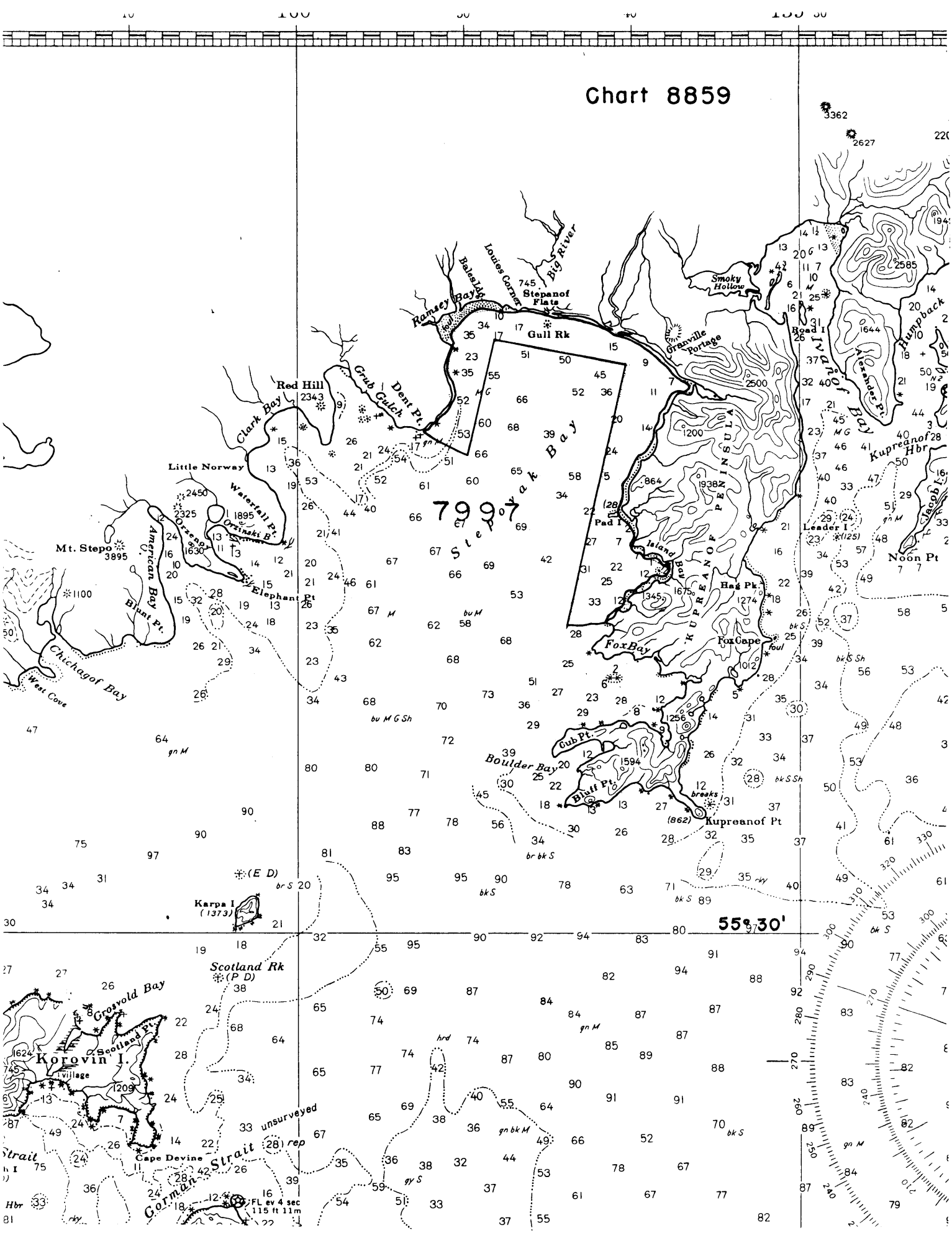
Chart 8859
Stepovak Bay
Kupreanof Peninsula
Ramsey Bay
Louies Corner
Big River
Stepanof Flats
Gull Rk
Granville Portage
Smoky Hollow
Ivanof Bay
Alexander Pt
Humpback
Kupreanof Hbr
Jacob I
Noon Pt
Leader I
Pad I
Island Bay
Hag Pk
Fox Bay
Fox Cape
Kupreanof Pt
Cub Pt
Boulder Bay
Bluff Pt
Red Hill
Clark Bay
Grub Gulch
Dent Pt
Little Norway
Waterfall Pt
Orzenoi
Orzinski Pt
Mt. Stepo
American Bay
Blunt Pt
Elephant Pt
Chichagof Bay
West Cove
Karpa I
(1373)
Scotland Rk
(P D)
Grosvold Bay
Scotland Pt
Korovin I.
village
Cape Devine
Gorman Strait
unsurveyed
rep
FL ev 4 sec
115 ft 11m
55° 30'
7997