7996

Dizg. Cht. No. 8895

Form 504

es-344

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. SU-2152 *Office No.* H-7996

LOCALITY

State Alaska

General locality Alaska Peninsula

Locality South end of Kupreanof Peninsula

1952 & 1953

CHIEF OF PARTY

J.C. Bose

LIBRARY & ARCHIVES

DATE June 9, 1953

B-1870-1 (1)

7996

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 7996

Field No. Su 2152

State Alaska

General locality ~~South side~~ Alaska Peninsula

Locality South end of Kupreanof Peninsula

Scale 1/ 20 000 Date of survey 19 May - 21 Sept. 1952 & 2-3 Sept. 1953

Instructions dated 8 March 1951, Sup. 17 March 1952 and 8 Apr. 1953

Vessel SURVEYOR, ML Nos. 3 & 4

Chief of party J.C.Bose

Surveyed by John C. Bull & William Kachel & F.X. Popper

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 Dan L. Wheeler & Omar H. Quade, Jr. & G.J. Thompson

Soundings penciled by Clarence R. Lehman & G.J. Thompson

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

REMARKS:

U. S. GOVERNMENT PRINTING OFFICE 693019

182

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.

See Title Sheet
1952 Work

REGISTER No. H-7996

Field No. SU-2152

State Alaska

General locality Alaska Peninsula ~~- South Side~~

Locality South end of ~~and East Side~~ Kupreanof Peninsula

Scale 1:20,000 Date of survey 2 and 3 Sept. 1953

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

Vessel SURVEYOR (Launches No. 3 and No. 4)

Chief of party J. C. Bose

Surveyed by F. X. Popper and J. C. Bull

Soundings taken by fathometer, graphic recorder, hand lead, ~~XXX~~e

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 ~~XXXX~~ MLLW {and are based on a velocity of sound of 800 fms. per sec.

REMARKS: ~~To be~~ protracted by the Washington Office.

U. S. GOVERNMENT PRINTING OFFICE 16—66520-1

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC
SURVEY H-7996 (FIELD NO. SU-2152)

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 and 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 in the vicinity of Kupreanof Point on the south side of the Alaska Peninsula. It extends from latitude 55° 32' N to 55° 41' N and longitude 159° 28' W to 159° 47' W. Field work was started on 19 May and ended 21 September.

This survey makes a junction on the south and east with prior survey H-7927 (1951) 1:40,000 and on the north east with prior survey H-7923 (1951)-53 1:20,000.

Junction is also made with contemporary surveys H-7923 (1951-52-53), H-7997 (1952), H-7999 (1952), and H-8000 (1952-53) and H-7927 (1951). Pt 4 of Review

C. VESSEL AND EQUIPMENT:

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

The SURVEYOR, equipped with Model 808 Depth Recorder No. 128-S, was used on the off-shore lines to the east of Kupreanof Peninsula and on a few splits to the south of Kupreanof Point.

Launch No. 3, equipped with Model 808 Depth Recorder No. 56, was used for the inshore hydrography on the east side of Kupreanof Peninsula and off the southern tip of the peninsula westward to about longitude 159° 40' W. It was also used for some of the work in Boulder Bay on the west side of the peninsula.

Launch No. 4, equipped with Model 808 Depth Recorder No. S-110, was used to the west of longitude 159° 40' W and on the west side of Kupreanof Peninsula with the exception of some of the work in Boulder Bay.

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 Kupreanof Harbor portable tide gage, latitude 55° 47.40' N, longitude 159° 21.05' W, ~~was~~ were used to reduce soundings on the east side of Kupreanof Peninsula. Data obtained from the Fox Bay portable tide gage, latitude 55° 37.95' N, longitude 159° 37.25' W, ~~was~~ were used to reduce soundings on the south and west sides of Kupreanof Point.

Since no time or range corrections ~~was~~ were found necessary between the gages at Kupreanof Harbor and Fox Bay, the data from these gages were used interchangeably where absence of records at either station made this necessary. Reference is made to letter from the Director dated 8 September 1952, subject: Tide Data, Alaska.

No current stations were occupied.

E. SMOOTH SHEET:

The smooth sheet projection was made by the Seattle Processing Office by hand. 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 in 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 Sheet Nos. SU-B, C, D, E, F, and G-52). C & D-52 marked for destruction, All pertinent information has been transferred

The hydrographic signals on the south side of Kupreanof Peninsula were located by a series of sextant cuts from the ship, as it was impractical to do planetable graphic control in this area because of difficult landing conditions.

These cuts were plotted on Topographic Sheet C-1952 and transferred to the smooth hydrographic sheet. In the process of naming hydro signals on the boat sheet, signal ZED was misnamed NAC, and signal XTRA was misnamed ICE. These have been corrected in the record books and on the smooth sheet to the correct names - ZED and XTRA.

For discussion of accuracy of location and comparison 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-8832 and T-8833. Generally the shorline and location of off-lying rocks is very good. (See discussion of shoreline variations in Topographic Descriptive Report, SURVEYOR, 1952).

The following discrepancies in the location of off-lying rocks were noted: There is no off-lying rock as shown on T-8823 at latitude 55° 37.4', longitude 159° 38.4'; there is no rock awash at MLLW as shown on T-8833 at latitude 55° 24.17', longitude 159° 42.36'. A further check should be made upon completion of the smooth sheet.

It was impracticable 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 Recorders 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 sounding, obtaining shoal depths and 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 of 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 nine 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; H-3796 (1915), 1:100,000; and H-3722 (1914) Reconnaissance and the boat sheet were satisfactory. | TP-5 of Review

M. COMPARISON WITH CHART:

Comparisons with chart 8859 and the boat sheet were satisfactory. | TP-6 of Review

N. DANGERS AND SHOALS:

There are no newly-found dangers or shoals on this sheet.

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 302 through 304, is satisfactory. The area is generally free of dangers except those noted.

DETAILED COAST PILOT NOTES are as follows:

Page 303 - Lines 11 and 12. Delete sentence beginning "The wreck--".

Page 303 - Line 17. For "650 yards 038°" substitute "690 yards 30°".

Page 304 - Lines 11-14. Delete all. Also delete the addition to line 14 given in the supplement dated January 1952.

Page 304 - Line 29. After "all sizes" add "except in very strong westerly winds".

Page 304 - Lines 32 and 33. Delete all following "dead ahead" and substitute: "When 1.0 mile west of the islet and a low gravel point that begins near the east end of a grass-topped bluff is on the starboard beam, change course to 65° and continue to anchorage in 15 to 18 fathoms, or less if desired, in the largest cove at the head of the bay."

Page 304 - Lines 35-39. Delete all after "cove" and substitute: "When 1.0 mile west of the islet change course to 108° and continue on this course for 0.9 mile until the islet is 0.3 mile on the port beam, thence steer 135° for 0.6 mile to anchorage in 8 or 9 fathoms in sticky mud bottom."

Page 304 - Line 42. For "320" substitute "300" and for "bares 0 to 3 feet" substitute "is awash".

Coast Pilot Notes were submitted as a separate report on an area basis on 5 November 1952.

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. The largest islet off Fox Cape which has numerous large caves at latitude 55° 40' N, longitude 159° 31.4' W.
2. Triangulation station "PINNACLE NO. 8 (Triplet), 1946" latitude 55° 38.75' N, longitude 159° 32.5' W. Large pinnacle rock.
3. Triangulation station PAN 1914 and 1946, highest tip of Kupreanof Point.
4. The patch of white rock half-way up the outer face of Cub Point, latitude 55° 36.01' N, longitude 159° 44.66' W, triangulation station CUB PT 1946.
5. The 90-foot islet located in the southeast part of Fox Bay, latitude 55° 37.64' N, longitude 159° 38.8' W.

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: (see H-7999)

Fathometer Report	~~Not yet~~ Submitted Nov. 1952
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 7996
Su 2152

South part Kupreanof Peninsula.

Processing Office Notes.

The processing office prepared the smooth sheet and plotted the soundings. The field party plotted the positions and reduced the soundings.

Smooth sheet.

The projection was ruled by hand on paper D 117. The shoreline and topography were transferred from film positive copies of T 8832 and T 8833 which were compiled from inspected photographs. Topographic signals are from graphic control sheets Su-B-C-52. GP's for the triangulation are on pages 131,345,346,347,348,351,352, 355,356 and 366 of Vol.5 Lithographed triangulation for Alaska. The smooth sheet has been compared with the boatsheets for rocks,etc., located by the Hydrographer.

Graphic Control sheets are marked for destruction.

Junctions.

On all sides the depth curves have been drawn with consideration for soundings on the adjacent sheets. Along the north line of the soundings west of Kupreanof Peninsula the depths of overlapping soundings on H 7997 are a fathom deeper than H 7996. On the east edge of the sounded area soundings of H 7927 are about a fathom shoaler than H 7996. Note the effect on the 40 fm. curve near ϕ 55 36.5 λ 159.31.

Junctional sdgs in adequate agreement.

Dangers.

Shoal soundings, rocks and reefs have been pointed out with leaders. The following require special mention.

ϕ		λ		Pos.	Fms.	Remarks.
55	34.28	159	35.38	90-d	0.4	Sunken rk. 1/4 mi. offshore.
	38.7		41			Large reef 1/2 mi. long.
	38.50		41.73	161-j	4.1	
	38.68		39.35	9-m	2.3	
	39.08		40.12	9-k	1.7	RK
	37.52		39.20	44-d	3.3	w. end ledge off islet.
	34.12		42.35	59-h	~~2.1~~	Revised to 5.9 fms.

plotted on S/S * covers 2 ft at MLLW

Edgar B. Smith
Cart. Engr.
6/2/53

H 7996
Su 2152

Alaska Peninsula.
South part of Kupreanof Peninsula.

List of geographic names
penciled on smooth sheet.

ALASKA PENINSULA

BOULDER BAY

BLUFF POINT

CUB POINT

FOX BAY

FOX CAPE

ISLAND BAY

KUPREANOF PENINSULA

KUPREANOF POINT

STEPOVAK BAY

7996

COPY

Refer to No. 36-rcb

AIR MAIL

8 September 1952

To: 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	7.6	

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 reducers may be taken from the nearest gage. In case of missing or defective record at any station the records at the other stations may be considered interchangeable without modification in either time or height.

/s/ F. L. Gallen
Acting Director

7996

TIDE NOTE

1952

Two tide gages were used to reduce the soundings on this sheet. The Kupreanof Harbor portable tide gage was used on all work on the east side of Kupreanof Peninsula. This gage was located at latitude 55° 47.40' N, longitude 159° 21.05' W. MLLW as furnished by the Washington Office is 4.2 ft. on the staff. The Fox Bay portable tide gage was used on all work to the south and west of Kupreanof Peninsula. This gage was located at latitude 55° 37.95' N, longitude 159° 37.25' W. MLLW was 3.6 feet on the tide staff.

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.

STATISTICS FOR HYDROGRAPHIC SURVEY H-7996 (1952)

USC&GSS SURVEYOR

CS-344

Day Letter	Volume Number	Date	H.L. or W.S.	Number of Positions	Statute Miles of Sounding
LAUNCH NO. 3					
a	1	12 June 1952	0	186	39.1
b	1 & 2	13 June 1952	0	176	36.5
c	2	14 June 1952	0	163	29.3
d	2 & 3	16 June 1952	0	182	32.5
e	3	19 June 1952	0	158	36.2
f	4	1 July 1952	0	151	21.0
g	4	17 July 1952	0	126	23.9
h	4 & 5	18 July 1952	0	145	25.1
		Totals.		1287	243.6
LAUNCH NO. 4					
a	6	18 June 1952	0	131	33.5
b	6 & 7	19 June 1952	0	206	45.6
c	7	25 June 1952	0	79	18.6
d	8	26 June 1952	0	188	43.7
e	8 & 9	1 July 1952	0	158	36.7
f	9	3 July 1952	0	124	25.7
g	9 & 10	14 July 1952	0	124	24.5
h	10	17 July 1952	0	166	36.5
j	10 & 11	18 July 1952	0	176	40.0
k	11	23 July 1952	0	118	29.6
l	12	24 July 1952	0	105	18.0
m	12	25 July 1952	0	87	15.0
n	12 & 13	28 July 1952	0	109	20.0
p	13	21 Sept. 1952	0	12	0.0
		Totals.		1783	387.4
SURVEYOR					
A	14	19 May 1952	0	27	0
B	14	29 May 1952	0	116	55.1
C	14	1 June 1952	0	33	17.5
D	14 & 15	17 July 1952	0	145	54.6
E	15	18 July 1952	0	24	4.4
F	15	20 Aug. 1952	0	25	5.8
		Totals.		370	137.4
		TOTAL FOR SHEET		3440	768.4

Total Area - 59.8 sq. statute miles

Supplemental DESCRIPTIVE REPORT to Accompany
HYDROGRAPHIC SURVEY H-7996 (FIELD NO. SU-2152)

Alaska Peninsula, South Side Southwest Alaska

Scale - 1:20,000 1953 J. C. Bose, Chief of Party

USC&GSS SURVEYOR Launches No. 3 & 4
F. X. Popper and J. C. Bull, Hydrographers

A. PROJECT:

Instructions for Project No. CS-344, 8 March 1951, supplemental instructions 17 March 1952 and 8 April 1953. Work done in 1953 to be protracted in the Washington Office.

B. SURVEY LIMITS AND DATES:

This survey covers development of shoals along the east and south side of the Kupreanof Peninsula as required in supplemental instructions dated 8 April 1953, listed as follows:

Latitude	Longitude
55° - 40'.20	159° - 31'.1
39'.95	31'.2
39'.75	31'.67
38'.12	33'.50
38'.11	33'.70
39'.0	32'.0
33'.73	35'.57

C. VESSELS AND EQUIPMENT:

Field work was done on 2 and 3 September 1953 from Launch No. 3 with Lt. Cdr. F. X. Popper in charge and Launch No. 4 with Cdr. J. C. Bull in charge.

Model 808 depth recorders were used on both launches, No. 47-S on Launch No. 3 and No. S-110 on Launch No. 4.

Fathometer data and corrections for this work will be found in the Fathometer Report, Ship SURVEYOR, 1953, Project CS-344. With H-8045

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~~ was plotted by the Washington Office. Reference Director's letter, file No. 22/MEK, S-1-SU, dated 12 January 1954.

F. CONTROL STATIONS:

All stations used for hydrography were 1952 stations recovered in 1953, except for existing triangulation of an earlier date. No stations were visited.

A list of signals used and their source will be found in Vol. No. 16.

G through Z. Not applicable or no change.

Respectfully submitted:

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

Forwarded:

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

STATISTICS FOR HYDROGRAPHIC SURVEY H-7996 (1953)
USC&GSS SURVEYOR

CS-344

Vessel	Day Letter	Volume Number	Date	H.L. or W.S.	Number of Positions	Statute Miles of Sounding
Launch No. 3	j blue	16	2 Sept. 1953	0	40	6.6
Launch No. 3	k blue	16	3 Sept. 1953	1	66 59	11.5
Launch No. 4	q green	17	3 Sept. 1953	2	55	6.3

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.

/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 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, USC&GS
Comdg. USC&GSS SURVEYOR

RHC

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

1 July 1953

~~Division of Coastal Surveys~~:

Division of Charts: R. H. Carstens

Plane of reference approved in
15 volumes of sounding records for

HYDROGRAPHIC SHEET 7996

Locality Alaska Peninsula (South Side)

Chief of Party: J. C. Bose in 1952
Plane of reference is mean lower low water, reading
4.2 ft. on tide staff at Kupreanof Harbor
13.2 ft. below B. M. 1 (1914)

3.6 ft. on tide staff at Fox Bay
12.6 ft. below BM 1 (1952)

5.1 ft. on tide staff at Ivanof Bay
15.1 ft. below B. M. 1 (1952)

Height of mean high water above plane of reference is 6.9 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 877033

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 7996 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 877033

GEOGRAPHIC NAMES

Survey No. H-7996

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		for title								1
Alaska Peninsula									BGN	2
Kupreanof Peninsula										3
										4
Fox Cape										5
Kupreanof Point									BGN	6
Bluff Point										7
Boulder Bay										8
Cub Point										9
Fox Bay										10
Dome Point										11
Island Bay										12
Steporak Bay									BGN	13
										14
					Names underlined in red are approved 6-23-53. L. Heck					15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7996

Records accompanying survey:

Boat sheets 1-2 Parts(1953) 3(1952); sounding vols. 2(1953) 15(1952); wire drag vols. .....; bomb vols. .....; graphic recorder rolls 1 Env.(1953) 7 Env.(1952);

special reports, etc. 1 Smooth Sheet; 1 Descriptive Report(1952) & 1Descriptive Report(1953),Filed together;

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

Number of positions on sheet		3594 1952 and 1953 work
Number of positions checked		78
Number of positions revised		0
Number of soundings revised (refers to depth only)		15 (to smooth some curves)
Number of soundings erroneously spaced		0
Number of signals erroneously plotted or transferred		0
Topographic details	Time	42 hrs. (many tracks, shoals, etc.)
Junctions	Time	20 hrs.
Verification of soundings from graphic record	Time	30 hrs. (to smooth curves and to define peaks)

Verification by Stephen Rae Total time 322 HRS. Date 12-27-54

Reviewed by A. J. Jeskind Time 82 Date 2-18-55

M-2232-1

Vicinity N. 55°33.5' & 159°35.5' looks different on the
S.S. than on the S.S. However, due to flat-bottom, and
to excellent crossing & junctional agreements, no positions were checked.
Note

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-7996

Field No. SU-C-52

Scale 1:20,000

State Alaska General locality Alaska Peninsula - South Side

Specific locality Kupreanof Peninsula - South End

Dates: Survey began June 1952 Completed June 1952

Photography ____, Supplemented by ground surveys to ____

Project No. CS-344 Instructions dated 8 March 1951

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

Applied to H-7996 and then marked for destruction.

See H-7996 for D.R.

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

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 and H-7996

Field No. SU-D-52

Scale 1:20,000

State Alaska General locality Alaska Peninsula - South Side

Specific locality Stepovak Bay

Dates: Survey began July 1952 Completed July 1952

Photography, Supplemented by ground surveys to

Project No. CS-344 Instructions dated 8 March 1951

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 Eagle, 1946, at 1128, July 14, 1952, is 18°34' E
Δ Enuf, 1946, at 1100, July 3, 1952, is 20°43' E

Applied to H-7997 and H-7996

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

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7996 FIELD NO. SU-2152

Alaska, South Side Alaska Peninsula, South End of Kupreanof Peninsula

Project CS-344

Surveyed, May, 1952 - Sept., 1953 Scale 1:20,000

Soundings: Control:

808 Fathometer
Lead line

Sextant fixes on shore signals

Chief of Party - J. C. Bose
Surveyed by - J. C. Bull, W. Kachel and F. X. Popper
Protracted by - D. L. Wheeler, O. H. Quade, Jr., and G. J. Thompson
Verified and inked by - S. Rose
Reviewed by - I. M. Zeskind 2-18-55
Inspected by - R. H. Carstens

1. Shoreline and Signals

The shoreline originates with air-photographic surveys T-8832 and T-8833 of 1941-42. Several corrections to islets, rocks awash and reefs have been indicated on T-8833 which will be corrected by the Division of Photogrammetry.

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 generally prevented development to the low-water line.

The survey covers an area of generally smooth bottom, except in Fox Bay, off points of land and, as noted above, in inshore areas. Ledges, reefs and rocky shoals contribute to the bottom irregularity.

4. Junctions with Contemporary Surveys

Adequate junctions were effected with H-7923 (1951-52-53) on the northeast, with H-7927 (1951) on the east and southeast, and with H-7997 (1952) on the northwest. The junctions with H-7999 (1952) on the west and H-8000 (1952-53) on the southwest will be discussed in the reviews of those surveys.

5. Comparison with Contemporary Surveys

a. H-3722 (1914), 1:100,000
H-3796 (1915), 1:100,000

These small-scale reconnaissance surveys only cover portions of the present survey. A comparison between the prior and present surveys reveals only minor 1-to 2-fms. differences in depths.

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

b. H-7169 (1946), 1:80,000

This small-scale reconnaissance survey sparsely covers areas on the east and west sides of Kupreanof Peninsula. A comparison between the prior and present surveys reveals only minor differences of 1-to 2-fms. in depths.

The present survey is adequate to supersede the prior survey 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. No discrepancies between the charted information and the present survey are noted, except for the rock awash charted in lat. 55°34.2', long. 159°36.8' and rock awash charted in the vicinity of lat. 55°34.8', long. 159°39.5', which should be deleted from the chart. These rocks originate with air-photographic survey T-8464 (1943) which was compiled prior to the field inspection of the photographs. The same photographs were applied to T-8833 (1941-46) after field inspection. Neither T-8833 nor the present survey show these rocks.

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. However, depth curves were drawn with too sharp a pencil which left lines engraved on the smooth sheet.

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

J. C. Bull
Chief, Hydrography Branch

Earl O. Heaton
Chief, Division of Coastal Surveys

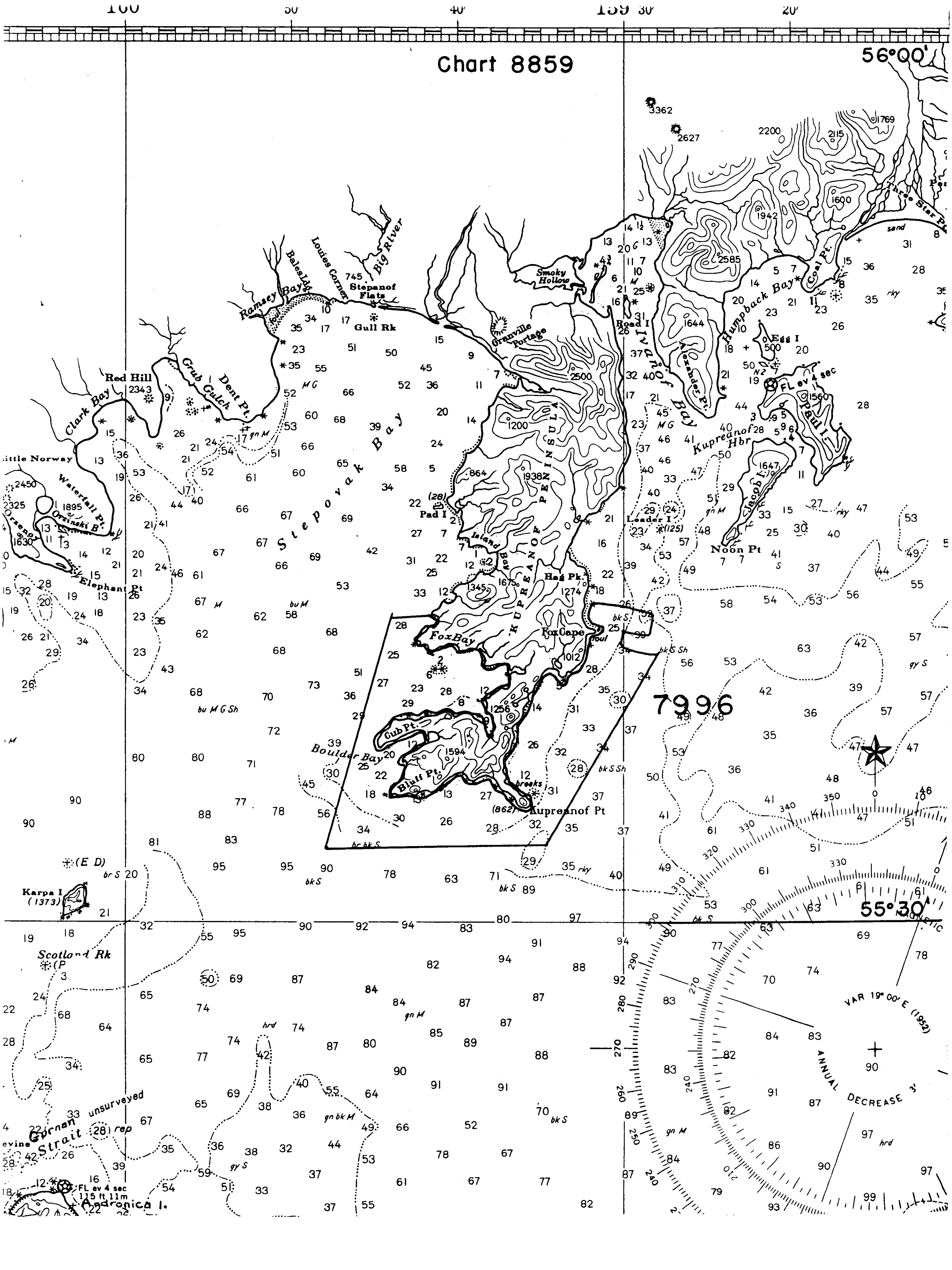
Chart 8859
56°00'
55°30'
7996
Ramsey Bay
Bales Ldg
Louies Corner
Big River
Stepanof Flats
Gull Rk
Smoky Hollow
Granville Portage
Road I
Ivanof Bay
Alexander Pt.
Humpback Bay
Coal Pt.
Three Star Pt
Egg I
Paul I.
FL ev 4 sec
Kupreanof Hbr
Jacob I.
Noon Pt
Leader I
Red Hill
Clark Bay
Crub Gulch
Dent Pt.
Little Norway
Waterfall Pt.
Orzinski B.
Elephant Pt
Stepovak Bay
Pad I
Island Bay
KUPREANOF PENINSULA
Hag Pk.
Fox Bay
Fox Cape
Cub Pt.
Boulder Bay
Bluff Pt.
Kupreanof Pt
Karpa I
(1373)
Scotland Rk
Gorman Strait
unsurveyed
Andronica I.
FL ev 4 sec 115 ft 11m
VAR 19°00' E (1952)
ANNUAL DECREASE 3'

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7996 (1952-53)

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
2/11/54	8859	Sam.	Before ~~After~~ Verification and Review Completely applied before V. and R. including only additional work.
14 July 60	8859	Nichols	~~Before~~ After Verification and Review add'l. work not yet plotted 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
3/6/75	16556	HAMILTON	~~Before~~ After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			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.