8244

Diag. Cht. No. 8152-2.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. LJ-1255 *Office No.* H-8244

LOCALITY

State S. E. Alaska

General locality Sumner Strait

Locality Off Kosciusko Island

19 55

CHIEF OF PARTY

G. A. Nelson

LIBRARY & ARCHIVES

DATE April 21,1959

USCOMM-DC 5087

8244

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-8244

Field No. LJ-1255

State S. E. ALASKA

General locality Sumner Strait

Locality Off Kosciusko Island ~~Shipley Bay to Point Hardscrabble~~

Scale 1:10,000 Date of survey August & September 1955

Instructions dated 6/3/53, 12/28/53, 12/23/54, 1/25/55

Vessel Ship LESTER JONES

Chief of party George A. Nelson

Surveyed by George A. Nelson, Charles W. Clark, Pentti A. Stark

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

Fathograms scaled by C. E. Strom & D. T. Wilson

Fathograms checked by C. E. Strom & D. T. Wilson

Protracted by W. M. Martin

Soundings penciled by W. M. Martin

Soundings in fathoms and tenths ~~feet~~ at ~~MEAN~~ MLLW and are based on a velocity of sound of 800 fms./sec.

REMARKS: Project 1347

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

MR

DESCRIPTIVE REPORT TO ACCOMPANY
HYDROGRAPHIC SURVEY H-8244 (FIELD NO. LJ-1255)

SUMNER STRAIT, S. E. ALASKA

SCALE 1:10,000 AUGUST & SEPTEMBER 1955

SHIP LESTER JONES, GEORGE A. NELSON, COMDG.

SURVEYED BY: GEORGE A. NELSON, CDR., C&GS
CHARLES W. CLARK, CDR., C&GS
PENTTI A. STARK, LT., C&GS

A. PROJECT:-

This survey is a part of Project 1347 and was executed under Instructions for Project CS-347 as follows:

Supplemental Instructions dated 3 June 1953
Supplemental Instructions dated 28 December 1953
Supplemental Instructions dated 23 December 1954
Supplemental Instructions dated 25 January 1955

B. SURVEY LIMITS AND DATES:-

General Locality: East side of Sumner Strait, S. E. Alaska, west coast of Kosciusko Island, Shipley Bay to Point Hardscrabble.

The survey extends from Lat. 56° 00.5', to Lat. 56° 07.5' and from Long. 133° 42' to Long. 133° 47.5', including inshore hydrography on the west coast of Kosciusko Island from Lat. 56° 00.5', to Lat. 56° 04'.

This survey also included development of a 15 fm. shoal at Lat. 55° 58.7', Long. 133° 48'5on a sub-plan. (Falls on H-6283)

Field work began on 19 August 1955 and ended on 19 September 1955.

Junctions with prior surveys: H-6283 (1937), scale 1:10,000 at the south limit of the sheet.

Junctions with contemporary surveys: (1954-5) H-8151 (LJ-1354), scale 1:10,000 at the north limit of the sheet east of longitude 133° 44.5'.

(1955) H-8245 (LJ-1355), scale 1:10,000, at the east limit of the sheet north of Lat. 56 04'.

There is no adjoining survey to the west or to the north, west of Long. 133° 44.5'

VESSELS AND EQUIPMENT:-

Hydrography was accomplished with the Ship LESTER JONES and with Launch 98 operating from the ship.

808 Fathometer No. 102-S was used for all launch hydrography.

808 Fathometer No. 75 was used for all ship hydrography except for detached wire soundings on shoals and while obtaining bottom samples. Electric sounding machine No. 144 and sheave No. 390 were used for wire soundings.

Inshore hydrography was done with the launch approximately to the 20 fm. curve. Offshore hydrography was done with the ship.

A fifth or E scale on Fathometer No. 75 permitted sounding to a depth of 195 fms.

D. TIDE AND CURRENT STATIONS:-

A portable automatic tide gage was operated at Pole Anchorage, Lat. 55° 57.0', Long. 133° 48.5' (off limits of H-8244) and all tide reducers on this survey were obtained from this gage except on 19 August and 24 August. On 19 August Sitka tides were used with a time difference of -15 minutes and a range ratio of 1.2. On 24 August Shipley Bay tides were used without time or range corrections.

No time or range corrections were made on Pole Anchorage tides for any part of this survey.

One current station was occupied west of Ruins Point. The position of this station is not available at the time of writing this report.

E. SMOOTH SHEET:-

Not plotted by field party. (Seattle PO)

F. CONTROL STATIONS:-

The source of control is triangulation executed by J.M.H. in 1886 and G.C.J. in 1937.

Topographic stations are mostly photo-hydro stations located on T-9624, T-9626, T-9629 and T-9630 (1955).

Topographic stations ARC, BUR, INA, JUG, KIP, MAL, PAR and SLY were ~~located~~ by sextant fix at the station and/or sextant cuts from other shore stations. (See Processing Office Notes for signal SLY.)

A fourth-order geographic position was computed for topographic station LAM (see H-8245).

No positions of stations are known to be of sub-standard accuracy.

G. SHORELINE AND TOPOGRAPHM:-

Shoreline and topographic details are from manuscripts T-9626, T-9629

DESC REPORT H-8244

DESC. REPORT H-8244

and T-9630 compiled by photogrammetric methods based on 1955 field inspection data. See also T-6589 (1937). IPI Review

Three rocks awash on T-6589 (1937) at Lat. 56° 04.45', Long. 133° 42.1', Lat. 56° 01.1', Long. 133° 45.0', and Lat. 56° 01.7', Long. 133° 44.7' were not verified. These rocks probably exist as shown on T-6589 and it is recommended that they be retained. There is some doubt about the height of the first mentioned rock given as bare 3' at MLLW on T-6589. This rock was seen awash from a skiff on only one occasion, at a minus tide and with 2 to 3 foot swells. The other two rocks were not seen during the course of this survey. 3* carried forward to H8244. (3) retained on Smooth Sheet? (0) shown on S/S - GRJ 7-1-64

Kelp areas defined by the hydrography should be given preference over those shown on the manuscripts.

Shoreline indicated by dashed line on the manuscripts is partially obscured by trees and shadows on photographs. However, it is essentially correct for charting as shown. See IPI Review

The low-water line was not defined by soundings except in limited areas of flat sand beach. Steep foreshore or a fringe of heavy kelp along the shoreline prevented sounding in to the low-water line.

All stations outside the high-water line are on rocks or islets.

Shoreline on the boat sheet is from preliminary manuscripts T-9626, T-9629 and T-9630 compiled without projections and was transferred to the sheet to fit photo identified control. See IPI Review

H. SOUNDINGS:-

All soundings on sounding lines were measured in fathoms with 808 fathometers. Wire soundings were measured with sounding machine while obtaining bottom samples with the ship.

All sounding was routine. No unusual methods were used and no unusual corrections were applied.

Bar checks were taken by the launch when weather conditions permitted to a depth of 10 fathoms. No bar checks were taken by the ship. On launch hydrography bar checks were used for correction of soundings and is entered in the sounding records as part of a combined phase-draft correction. A similar correction was obtained for the ship using the depth of the transducer units below the surface. This correction is also entered in the sounding records as part of a combined phase-draft correction.

On the launch the fathometer initial was set at zero and on the ship at 1.0 fm. Any variation from these settings was entered in the sounding records as an index correction.

Fathometer phase corrections were determined by comparisons on adjacent scales on readings made in air. These comparisons were made at

Seattle before the beginning of the field season and phasing heads were not changed throughout the season. Phase comparisons made in air were verified by soundings on different scales during the season. Phase corrections are entered in the sounding records as part of a combined phase-draft correction. ✓

Corrections to the nearest 0.1 fm. were used for all soundings. ✓

I. CONTROL OF HYDROGRAPHY:-

All launch and ship hydrography was controlled by visual sextant fixes on shore stations. No unusual methods were used. ✓

J. ADEQUACY OF SURVEY:-

This survey is considered complete and adequate to supersede all prior surveys of the area. | P5 Review

All parts of the survey are equally reliable and comply with the Project Instructions and the Hydrographic Manual. | P8 Review

Sounding of adjoining sheets transferred to the boat sheet indicate that junctions are satisfactory and depth curves can be adequately drawn. | P4 Review

There are no holidays. ✓

K. CROSSLINES:-

Crosslines comprise about 5% of the regular system of sounding lines. ✓

Soundings on boat sheet indicate that crossings are generally in good agreement with differences not exceeding 1 to 2 fathoms. | P2 Review

L. COMPARISON WITH PRIOR SURVEYS:-

Prior surveys of the area H-1749 (1886), scale 1:80,000 and H-1754 (1886), scale 1:80,000 are reconnaissance surveys without positive horizontal control. Both horizontal and sounding datums are doubtful. No detailed comparison was made. See Paragraph M. | P5 Review

Three rocks on T-6589 (1937) were not verified by this survey but probably exist. See Paragraph G. Carried forward to 8244.

It is recommended that this survey supersede all soundings on all prior surveys in the common area except for the three rocks on T-6589 (1937) referred to above. | P5 Review

M. COMPARISON WITH CHART:-

Comparison was made with chart 8172, print date 6/16/52, chart 8173, print date 10/22/51 and chart 8201, print date 4/19/54. ← Small scale | P6 Review

All soundings on the charts in the area of this survey are apparently from H-1754 (1886). Since the charts are based on reconnaissance and incomplete surveys a detailed comparison is not made.

Shoreline on all charts within the area of this survey is apparently from T-6589 (1937) and is essentially correct as charted. Charted shoreline and topographic details are revised in some detail by T-9626, T-9629 (1955).

A charted foul area at Lat. 56° 04.5', Long. 133° 42.1' was verified but revised some in detail.

There is no indication of a charted rock awash at Lat. 56° 03.1', Long. 133° 42.2'. Depths on this survey are about 4-5 fms. This rock is not on T-6589 (1937) and the source of it is not known.

Charted rocks awash at Lat. 56° 02.8', Long. 133° 42.6' and at Lat. 56° 02.4', Long. 133° 43.1' were verified.

A foul area at Lat. 56° 01.7', Long. 133° 44.8' was verified but charted rocks awash were not verified.

There is no indication of kelp at Lat. 56° 01.5', Long. 133° 46.2'. Depths in this vicinity are 60-80 fms.

~~A foul area at Lat. 56° 00.3', Long. 133° 45' is revised by T-9629 (1955).~~

Except as noted above under Paragraph L it is recommended that this survey supersede all charted soundings and features in the common area.

N. DANGERS AND SHOALS:-

Depth - fms.	Latitude	Longitude	Position No.
7	56 - 04.5	133 - 43.6	47L
Rock awash (in large foul area)	56 - 04.4	133 - 42.1	6-7e, T-6589 (1937)
Rock awash	56 - 04.2	133 - 42.0	T-9626
8	56 - 04.1	133 - 42.1	23e
7	56 - 03.9	133 - 42.5	215-216d
8	56 - 03.5	133 - 42.6	35-36E
10	56 - 03.3	133 - 43.9	144-145C 112-113K
6	56 - 03.1	133 - 44.9	95K, 19-20G
Rock awash	56 - 02.8	133 - 42.6	T-9629, 72b
Rock awash	56 - 02.4	133 - 43.1	T-9629, 35b
10	56 - 02.3	133 - 44.9	90K, 208-209H 68-69K
Rock awash at N end of large foul area	56 - 01.7	133 - 44.7	T-6589 (1937)
Rock awash in large foul area	56 - 01.1	133 - 45.0	T-6589 (1937)
Group of rocks	56 - 00.8	133 - 45.2	T-9629
14	55 - 58.7	133 - 48.5	78

Except as noted in above in Paragraph L all charted dangers are superseded by this survey and no comparison is made.

O. COAST PILOT INFORMATION:-

See "COAST PILOT NOTES - SHIP LESTER JONES - PROJECT 1347 - SEASON 1955".

There are no recommended ship anchorages within the area of this survey.

During the course of this survey the ship did not anchor within the area of the survey. The launch anchored for short periods at Lat. 56° 03.1', Long. 133° 41.8' and at Lat. 56° 01.8', Long. 133° 43.5'. Either of these may be used by small carft anchorage in suitable weather but are recommended only as emergency anchorages.

The cove at Lat. 56° 00.5', Long. 133° 45.1' has been in use in recent years. There is an abandoned logging camp in the cove and small tugs have entered the cove to ~~two~~ tow out log rafts. The cove is not considered to be of any commercial value and should not be entered without local knowledge and then only with extreme care at high tide. Tugs were reported to have entered thru the kelp west of signal AIR.

P. AIDS TO NAVIGATION:-

There are no aids to navigation within the area of this survey.

On the sub-plan one fixed aid to navigation was used for a signal. This light is 1955 Light List No. 2469, Fishermans Harbor Outer Light. The light was located by triangulation in 1937 as Little Pole Anchorage Outer Light, 1937.

This light was not reported on Form 567.

There are no bridges, overhead or submerged cables or ferry routes within the area of this survey.

Q. LANDMARKS FOR CHARTS:-

None recommended.

R. GEOGRAPHIC NAMES:-

No new geographic names are recommended.

Z. TABULATION OF APPLICABLE DATA:-

Forwarded to the Seattle Processing Office with this report:

Boat Sheet LJ-1455
10 Sounding Volumes, Vol. 1 - 10 incl.
18 Fathograms - A day to N day incl., a day to e day incl.
Tide data - hourly heights, tide curves and lists of tide reducers - for Pole Anchorage tide gage.

Additional applicable data:

1937 triangulation by G.C.J.
Shoreline manuscripts T-9626, T-9629 and T-9630 compiled from 1955 field inspection data
1955 Pole anchorage tide marigrams and tide level records forwarded to Washington Office 22 September 1955
1955 Current data forwarded to Washington Office 15 Nov. 1955
1955 Magnetic data forwarded to Washington Office 28 Sept. 1955
"COAST PILOT NOTES - SHIP LESTER JONES - PROJECT 1347 - SEASON 1955" forwarded to Washington Office 15 November 1955.

Respectfully submitted

Charles W. Clark.

CHARLES W. CLARK
CDR., USC&GS

STATISTICS FOR

HYDROGRAPHIC SURVEY H-8244 (1955)

SHIP LESTER JONES

PROJECT 1347

Date	Vols.	Day Letter	No. H.L. or Wire Sdgs.	No. of Positions	Stat. Miles Sdg. Lines
			Ship LESTER JONES		
8/19/55	1	A	- -	159	33.4
8/25/55	1 & 2	B	- -	169	27.6
8/26/55	2	C	- -	182	36.2
8/29/55	2 & 3	D	- -	225	48.3
9/1/55	3	E	- -	79	13.2
9/6/55	3 & 4	F	- -	197	51.7
9/7/55	4 & 5	G	- -	223	56.4
9/8/55	5 & 6	H	3	224	48.4
9/9/55	6	J	- -	25	0.6
9/13/55	6	K	- -	126	22.8
9/14/55	6	L	50	54	0.9
9/16/55	6 & 7	M	- -	178	35.5
9/19/55	7	N	- -	91	14.2
	Total Ship		53	1932	389.2
			Launch 98		
8/24/55	8	a	- -	116	14.5
9/9/55	8 & 9	b	- -	186	24.8
9/10/55	9	c	- -	93	12.9
9/14/55	9 & 10	d	- -	227	27.9
9/15/55	10	e	- -	102	11.8
	Total Launch 98			724	91.9
	Total for sheet		53	2656	481.1
	Area 24.8 sq. stat. miles				

PHASE-DRAFT CORRECTIONS

Fathometer No. 102-S (Launch)

	A Scale	A-B	B Scale	B-C	C Scale	C-D	D Scale	D-E	E Scale
3/29/55, Vol. 7, LJ-1354		-2.01		-2.00		-0.00		+3.00	
9/7/55, Vol. 10, LJ-1355		-2.01							
		-2.01(mean)		-2.00		-0.00		+3.00	
Phase Correction			-2.01		-4.01		-4.01		-1.01
Draft Correction*	+0.2		+0.2		+0.2		+0.2		+0.2
Total Correction	+0.2		-1.8		-3.8		-3.8		-0.8

*Draft Correction from Bar Checks on A Scale

Fathometer No. 75 (Ship)

	A Scale	A-B	B Scale	B-C	C Scale	C-D	D Scale	D-E	E Scale
3/29/55, Vol. 7, LJ-1354		+0.02		+0.18		+0.86		+4.25	
9/10/55, Vol. 11, LJ-1355		+0.09		+0.26					
9/19/55, Vol. 7, LJ-1255						+0.26		+4.04	
		+0.06(mean)		+0.22		+0.56		+4.14	
Phase Correction			+0.06		+0.28		+0.84		+4.98
Draft Correction*	+0.33		+0.33		+0.33		+0.33		+0.33
	+0.3		+0.4		+0.6		+1.2		+5.3

*From Descriptive Reports, 1954 (H-8150)

Draft Corrections

Draft	Initial	Diff.
1.33 fms	1.0	+0.33

TIDE NOTE
TO ACCOMPANY
HYDROGRAPHIC SURVEY H-8244 (FIELD NO. LM-1255)

Tide reducers on this survey were obtained from tide data from a portable automatic tide gage maintained by the Ship LESTER JONES at Pole Anchorage, Lat. 55° 57.0', Long. 133° 48.5'. (South of H-8244)

On 19 and 24 August Pole Anchorage tide gage was not in operation. On 19 August Sitka tides were used with a time difference of -15 minutes and a range ratio of 1.2. On 24 August Shipley Bay tides were used without time or range corrections. ✓

No time or range corrections were made on Pole Anchorage tides for any part of this survey. ✓

Hourly heights for Sitka were furnished by the Washington Office. ✓

Plane of MLLW on Pole Anchorage tide staff is 2.3 feet. ✓

APPROVAL SHEET

HYDROGRAPHIC SURVEY H-8244 (FIELD NO. LJ-1255)

Field work was accomplished by or under the supervision of the Chief of Party. All ship hydrography was done by the Chief of Party. Launch hydrography was examined daily.

The survey is complete and adequate and all records, exclusive of the smooth sheet, are approved.

No further field work is recommended. (PG Review)

George A. Nelson

GEORGE A. NELSON
COMMANDER, C&GS
Chief of Party

PROCESSING OFFICE NOTES H-8244

SMOOTH SHEET

The smooth sheet was hand constructed by the Seattle Hydrographic Processing Unit using standard methods of construction and checking.

CONTROL STATIONS

One station, SLY, called a Topographic Station in the Field Report, was inked in blue ink because the check angle taken from another station did not go thru the sextant fix location. The sextant fix appeared to give satisfactory sounding lines. (See TP F Descp't Report.)

SHORELINE AND TOPOGRAPHY

From the same source as shown in the Field Report.

ADEQUACEY OF SURVEY

This survey appears complete and adequate for charting. | PC Review

The fathograms apparently were not too carefully scanned, particularly in regard to the "deeps" adjacent to shoaler soundings. A number of places were found where channels seperated shoaler areas. (Somewhat hasty scanning is indicated. Occasional 5 or 10 Fm. errors A few peaks were skipped, also. (187-188 "F", vol. 4, P. 31)(44-45 "G", vol. 4, P. 46)(74-75 "M", vol. 6, P. 70) occur.)

Junctions with H-6283(1937), H-8151(1955) and H-8245(1955) have been compared and are found to be satisfactory. The depth curves can be adequately drawn. | P3 & 4 Review

Items under other headings have been checked or corrected in the Field Report.

Respectfully submitted

William M. Martin

WILLIAM M. MARTIN
Supervisory Cartographer

Approved and forwarded

G. C. Mast

G. C. MAST
Captain C&GS
Seattle District Officer

GEOGRAPHIC NAMES PENCILED ON H-8244

FISHERMANS HARBOR

KOSCIUSKO ISLAND

POLE ANCHORAGE

RUINS POINT

SUMNER STRAIT

FORM 197
(3-16-55)

GEOGRAPHIC NAMES

Survey No. H-8244

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	
Southeast Alaska			(title)							1
Point Hardscrabble			"							2
Shipley Bay			"		(one tide station)					3
Sumner Strait										4
Pole Anchorage					(one tide station)					5
Fishermans Harbor					~~(one~~				BGN	6
Kosciusko Island										7
Ruins Point										8
			Names approved May 5, 1959							9
Tide station off sheet:					L. Heck					10
Sitka									BGN	11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8244

Records accompanying survey:

Boat sheets 1; sounding vols. 10; wire drag vols. .....;

bomb vols. .....; graphic recorder rolls 3-Envelopes

special reports, etc. 1-Smooth sheet, 1-Descriptive report,

and 1-Tracing used as dog-ear, showing signal NOB.

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

Number of positions on sheet		2656
Number of positions checked		16
Number of positions revised		1 74"G"
Number of soundings revised (refers to depth only)		10 or 15 depths by ½ FM merely to smooth curves
Number of soundings erroneously spaced		0
Number of signals erroneously plotted or transferred		0
Topographic details	Time	4 hrs
Junctions	Time	3 hrs
Verification of soundings from graphic record	Time	35 hrs

Verification by [signature] Total time 289 hrs Date 3-24-'60

Reviewed by [signature] Time 84 Date 5-19-60

M-2232-1

RE: Pos. 120-125 "G" (vol. 4, p. 67-68): because of deep water, good agreement with crosslines and adjacent depths, and good agreement with the boatsheet, these pos. were not checked by verifies except that these positions were compared with the B.S.

DIVISION OF CHARTS

REVIEW SECTION -- NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8244 FIELD NO. LJ-1255

S. E. Alaska, Sumner Strait, Off Kosciusko Island

SURVEYED: August-September 1955 SCALE 1:10,000

PROJECT NO. CS-347

SOUNDINGS: 808 Depth Recorder
Wire Soundings

CONTROL: Sextant fixes on shore signal

Chief of Party	G. A. Nelson	
Surveyed by	G. A. Nelson, C. W. Clark and P. A. Stark	
Protracted by	W. M. Martin	
Soundings plotted by	W. M. Martin	
Verified and inked by	S. Rose	
Reviewed by	I. M. Zeskind	27 May 1960
Inspected by	R. H. Carstens	

1. Shoreline and Control

The shoreline originates with unreviewed air-photographic surveys T-9626, T-9629 and T-9630 of 1953-55, supplemented by a number of rocks and ledges from planetable survey T-6589 (1937).

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

2. Sounding Line Crossings

Depths at crossings are in adequate agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated except close inshore where the foul character of the bottom, steep foreshore and heavy kelp generally prevented development in depths less than 5 fathoms.

The bottom is very irregular. Submarine features such as ledges, reefs, ridges and shoals contribute to the bottom configuration.

4. Junctions with Contemporary Surveys

Adequate junctions were effected with H-8245 (1955) on the east off Shipley Bay and with H-6283 (1937) on the south. The junction with H-8151 (1954-55) on the northeast will be considered in the review of that survey. The project surveys on the northwest and west have not yet been received in the Washington Office.

5. Comparison with Prior Surveys

A. H-1749 (1886), 1:80,000
H-1753 (1886), 1:80,000
H-1754 (1886), 1:80,000

The present survey falls within the area of these small scale reconnaissance surveys. A comparison between the prior and present survey reveals only minor differences of 1-3 fms. in depths, except in several areas where they are greater, as for example in lat. 56°02.50', long. 133°44.67', where a prior depth of 35 fms. falls in present depths of 23-25 fms. These differences in depths are attributed to the different methods of surveying, to the inaccurate spacing of depths on the prior sounding lines and to errors in recording depths. Attention is directed to the following discrepancy in depth between the prior and present surveys.

The 16 fms. sounding (charted) shown in lat. 56°02.04', long. 133°44.60' on H-1754 (1886) falls in present depths of 25-26 fms. The sounding is misplotted and should actually fall about 300 meters southeastward where it falls in comparable depths on the present survey.

deleted S.T.S. 9/16/60 ET

The following discrepancies were also noted between the prior and present surveys:

1. The 3 rocks awash (charted) shown in the vicinity of 56°01.7', long. 133°44.8', on H-1754 (1886) are discredited by the hydrography on the present survey. The rocks awash should be deleted from the charts.

Removed 8173 9/16/60 ET

Removed 8173 9/60ET

2. The kelp (charted) shown in the vicinity of lat. 56°01.5', long. 133°46.2', on H-1754 (1886), is not shown on the present survey. The kelp falls in present depths of 60-80 fms. and is considered to be non-existent. The kelp should be deleted from the chart.

3. The 3 sunken rocks (charted) shown in the vicinity of lat. 56°04.6', long. 133°42.1', on H-1754 (1886), where they symbolize a foul area, should be deleted from the chart. The foul area is considered to be adequately developed on the present survey for charting purposes.

4. The rock awash (charted) in lat. 56°04.11', long. 133°42.07', is believed to originate with H-1754 (1886) where it is shown as a sunken rock and is a typical symbolization for shoal areas which were not sounded on that survey. The feature falls in depths of 1 fm. on the present survey. The sunken rock symbol should be deleted from the chart and in its stead the 1 fm. depth should be charted.

A number of bottom characteristics have been carried forward from the prior surveys. With these additions together with the rocks and ledges carried forward from T-6589 (1937) and referred to in item 1 of this review, the present survey is adequate to supersede the prior surveys within the common area.

B. Wire Drag Surveys

H-3791 WD (1915), 1:20,000
H-3916 WD (1916), 1:20,000

There are no conflicts between the present survey soundings and the effective wire drag depths.

6. Comparison with Chart 8172(Latest print date 9/1/58
Chart 8173(Latest print date 10/22/51)
Chart 8201(Latest print date 7/27/59)

REVIEW REPORT H-8244

A. Hydrography

The charted hydrography originates principally with the prior surveys previously discussed which needs no further consideration supplemented by soundings from the boat sheet (Bp 52871) of the present survey.

REVIEW REPORT

The present survey is adequate to supersede the charted hydrographic information within the common area. (The charted shoreline originates with T-6589 (1937) and is in marked disagreement in several places with the shoreline from unreviewed photogrammetric surveys shown on the present survey).

B. Aids to Navigation

There are no floating aids to navigation within the area 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.

8. Compliance with Project Instructions

The survey adequately complies with the project instructions.

9. Additional Field Work Recommended

The survey is considered basic and no additional field work is recommended.

Examined and Approved:

Chief, Nautical Chart Branch

Chief, Division of Charts

Chief, Hydrography Branch

Chief, Division of Coastal Surveys

RHC

Form 712
(11-30-55)

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

27 May 1959

Plane of reference approved in
10 volumes of sounding records for

HYDROGRAPHIC SHEET 8244

Locality Sumner Strait, Alaska

Chief of Party: G. A. Nelson in 1955

Plane of reference is mean lower low water, reading

2.3 ft. on tide staff at Pole Anchorage

16.5 ft. below B.M. 1 (1916)

6.0 ft. on tide staff at Shipley Bay
13.1 ft. below B.M. 2 (1955)

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

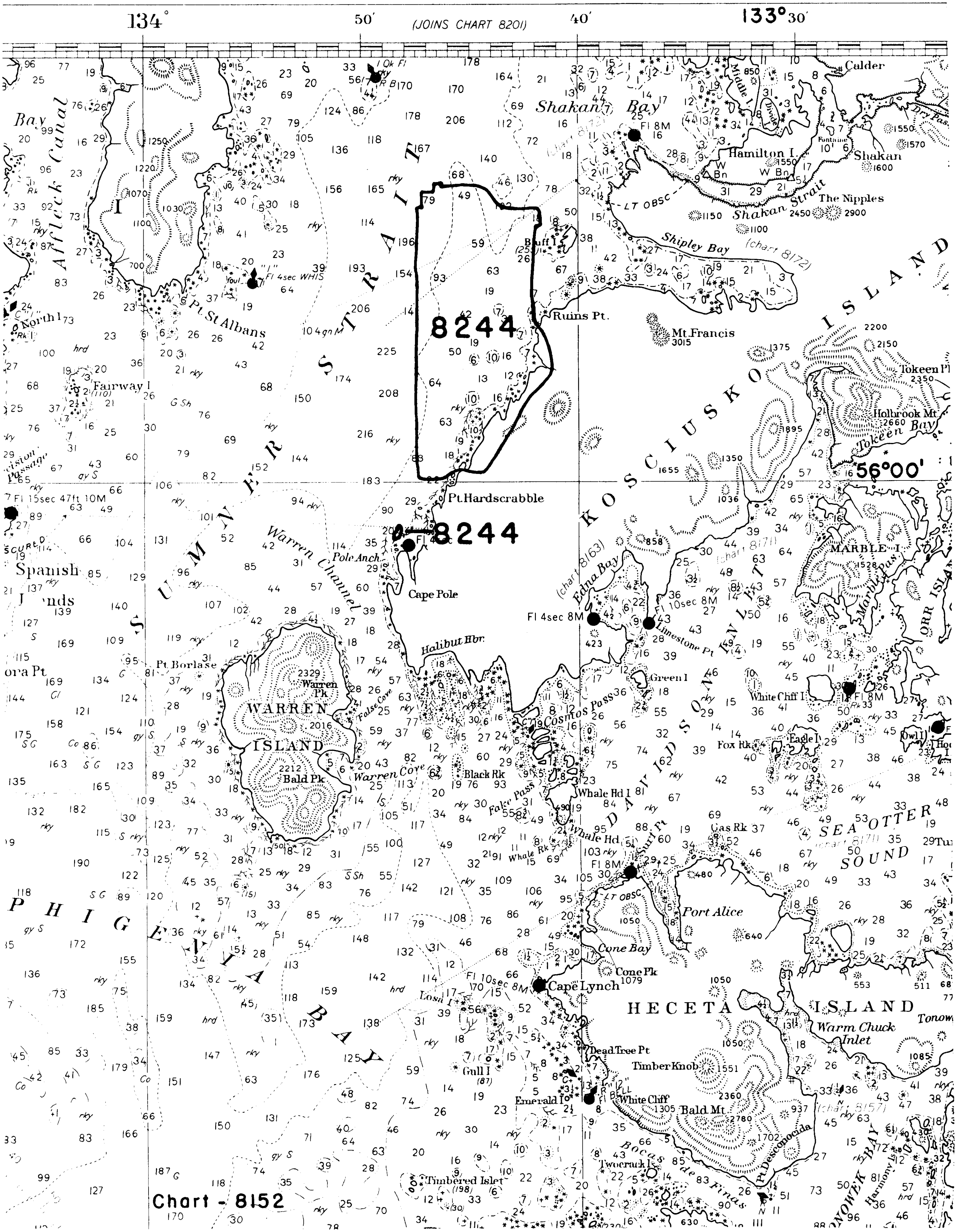
Pole Anchorage = 10.5 feet
Shipley Bay = 10.9 feet

Condition of records satisfactory except as noted below:

William Shofner
Signature

Chief, Tides Branch

Comm-DC 34330


134°
50'
(JOINS CHART 8201)
40'
133°30'
Calder
Shakan Bay
Hamilton I.
Shakan
Shakan Strait
The Nipples
Shipley Bay
Bluff I
Ruins Pt.
Mt.Francis
8244
Pt.Hardscrabble
8244
Warren Channel
Pole Anch.
Cape Pole
Halibut Hbr.
Affleck Canal
North I
Pt.St Albans
Fairway I
Spanish Islands
SUMNER STRAIT
KOSCIUSKO ISLAND
Tokeen Pt
Holbrook Mt.
Tokeen Bay
56°00'
Edna Bay
Limestone Pt
Green I
White Cliff I
MARBLE I
Marble Pas
ORR ISLAND
Pt.Borlase
WARREN ISLAND
Warren Pk
Bald Pk
False Cove
Warren Cove
Cosmos Pass
Black Rk
False Pass
Whale Hd I
Whale Hd
Fox Rk
Eagle I
Owl I
Gas Rk
DAVIDSON INLET
SEA OTTER SOUND
Surf Pt
Port Alice
Cone Bay
Cone Pk
Cape Lynch
HECETA ISLAND
Warm Chuck Inlet
Dead Tree Pt
Timber Knob
Gull I
Emerald I
White Cliff
Bald Mt.
Pt.Desconocida
Bocas de Finas
Twocrack Is
Timbered Islet
PHIGENIA BAY
Chart - 8152

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8244

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5/11/59	8201	M. Rogers	Examined direct to chart Before ~~After~~ Verification and Review (Partially applied)
5/15/59	8172	M. Rogers	Examined Before ~~After~~ Verification and Review one sounding revised.
3/14/60	8173	Helmer	~~Before~~ During ~~After~~ Before Verification and Review
8/19/60	8173	EE Thomas	Applied Completely after V&R. Before ~~After~~ Verification and Review Partly applied
10-24-60	8152	R.E. Elkins	thru cht 8173 dwg #6 and 8172 dwg #6.
3/14/61	8201	J.H. Eaton	Comp Appl'd direct to Chart and thru cht 8173 ~~Before~~ After Verification and Review
16 Mar 61	8002	Earl M. Bagay	~~Before~~ After Verification and Review Comp appl'd thru Dwg cht 8201 - RRD 4-20-61
7/1/64	8172	G.R. Johnston	~~Before~~ After Verification and Review Fully Applied
12-14-64	8152	G.K. Myers	~~Before~~ After Verification and Review Comp. appl thru charts 8173 dwg #7 & 8201.
3-5-79	new chart 17386	O. Stembel	~~Before~~ After Verification and Review
8/27/80	17387 (8172)	Kane	~~Before~~ After Verification and Review, Signature Reapplied from 17386

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.