

8145

Diag. Cht. No. 8863-3.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. EX-2554 Office No. H-8145

LOCALITY

State Alaska - Aleutian Islands

General locality Andreanof Group-Adak Island

Locality East Side Adak Strait

1945

CHIEF OF PARTY

S. B. Grenell

LIBRARY & ARCHIVES

DATE November 27, 1956

B-1870-1 (1)

8145

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-8145

Field No. EX-2554

State ALASKA

General locality Alutian Islands, Andreanof Islands - Adak Island ^{GROUP}

Locality East Side Adak Strait, Adak Island

Scale 1:20,000 Date of survey 27 July to 20 August 1954

Instructions dated 19 March 1952, 20 February 1953, 23 December 1953, 4 May 1954 and 28 June 1954.

Vessel EXPLORER LAUNCHES No. 2, and No. 3

Chief of party S. E. GREENELL

Surveyed by M. E. Wennermark and D. M. Whipp

Soundings taken by fathometer, ~~graphometer~~ hand lead, ~~wire~~

Fathograms scaled by fathometer readers

Fathograms checked by D. M. Whipp, M. E. Wennermark, C. D. Upham and A. C. Haglund

Protracted by H. A. Garcia (in part) K. W. Jeffers & C. E. Pedersen

Soundings penciled by H. A. Garcia (in part) & C. E. Pedersen

Soundings in fathoms ~~xxx~~ at MLLW and are based on a velocity

REMARKS: of sound of 800 fms./sec.

DESCRIPTIVE REPORT
TO ACCOMPANY
HYDROGRAPHIC SURVEY H-8145
FIELD NO. EX-2554
EAST SIDE OF ADAK STRAIT, ADAK ISLAND, ALASKA
PROJECT CS-218, SEASON 1954
SCALE 1:20,000
USC&GSS EXPLORER S. B. GREENELL, COMDG
SURVEYED BY:
M. E. WENNERMARK D. M. WHIPP

A. PROJECT:

The survey was executed in accordance with the following instructions for Project CS-218:

- (1) Original Instructions dated 19 March 1952.
- (2) Supplemental Instructions dated 20 February 1953. ✓
- (3) Supplemental Instructions dated 23 December 1953.
- (4) Letter 22/MEK, S-1-EX, 4 May 1954, Subject; "Hydrographic Surveys - Project CS-218".
- (5) Letter 22/MEK, S-1-EX, 28 June 1954, Subject; "Current Observations - Project CS-218".

B. SURVEY LIMITS AND DATES:

The survey involves inshore hydrography along the west side of Adak Island from the vicinity of Cape Moffett southward along the eastern shore of Adak Strait to the vicinity of the point midway between Eddy Island and Argonne Point near latitude $51^{\circ}48'N$. The areas covered lie between the shore and off-shore hydrography on survey H-8139. The area at the entrance to the Bay of Islands lies between work accomplished on surveys H-8139 and H-8147. ✓

Date of beginning survey: 27 July 1954
Date of completing survey: 20 August 1954. ✓

Junctions with prior surveys:

H-6881 - Adak Strait (northern part)
H-6883 - Shagak Bay
H-6884 - Bay of Islands
H-6885 - Bay of Islands
H-6887 - Bay of Islands
H-6882 - Adak Strait (southern part)

} Junctional sdgs
not shown

Junctions with contemporary surveys:

H-8139 - Adak Strait ✓
H-8147 - Bay of Islands ✓
H-8146 - At southern limit of this survey ✓

all surveys of 1954.

See TP 4
REVIEW

C. VESSEL AND EQUIPMENT:

Hydrography on this survey was accomplished by EXPLORER'S Launches No. 2 and No. 3.

808 fathometer No. 50 was in operation for all hydrography accomplished by Launch No. 2. The leadline was used only for taking bottom samples. No leadline corrections were required.

808 fathometer No. 60 was in operation for all hydrography accomplished by Launch No. 3. The leadline was used for the purpose of taking bottom samples and for determining depths on rocks and shoals. The leadline required corrections for length as noted in section H of this report.

Both Launches were equipped with shoran and most of the hydrography was shoran controlled. (See "Special Report on Shoran Corrections, 24 July to 12 September 1954".) Some hydrography on the west side of Careful Point was controlled by sextant fixes.

Bottom samples were obtained from the launches using the handlead equipped with the snapper type sampling device or with tallow.

D. TIDE AND CURRENT STATIONS:

A portable automatic tide gage was maintained at Sharp Point, Kanaga Island while the hydrography was in progress, except for work done on 5 August and 20 August. Reducers for those days were taken partly from Adak (Sweeper Cove) and adjusted for the Sharp Point position, and partly from the Sharp Point gage. No range or time corrections were applied to any of the Sharp Point observations. See tidal note attached to this report. *Tide stations not within limits of survey*

Current station #8 was occupied with the Roberts Radio Current Meter at Latitude $51^{\circ}48'17''N$ and Longitude $176^{\circ}56'36''W$ (Northwest of Argonne Point) in accordance with instructions. *525.419 m* *Plotted H-8146 (1954)*

E. SMOOTH SHEET:

The smooth sheet projection was made by hand and checked by the Seattle Processing Office. Distortion in the lateral direction of the sheet was about 0.12% and there was no appreciable distortion in the longitudinal direction.

Shoran arcs were drawn in the Seattle Processing Office and checked by EXPLORER officers.

Triangulation stations were plotted and checked by the Seattle Processing Office. Shoreline and topographic stations located by photogrammetric methods were transferred to the smooth sheet by EXPLORER officers. Shoreline detail north of Shagak was not inked since the source is a preliminary compilation and subject to revision after the 1955 field inspection of air-photos.

** Inked by Seattle Proc. Office. (See P-1 Review)*

The transfer of shoreline and topographic details has been verified by EXPLORER officers.

The hydrography north of latitude 51°56' was done on field sheet No. EX-2754 and is plotted as "b" day (green) on this sheet. The boat sheet is being retained for use in the 1955 field season. *H-8236*

F. CONTROL STATIONS:

Triangulation stations were established by U.S. Navy in 1933 and by this party in 1954.

The positions of shoran stations KEEN and GULL were determined by theodolite directions and short distances measured by steel tape. The position of station LANA was determined from triangulation. The computations for the positions of all three shoran stations are included in the descriptive report which accompanies hydrographic sheet No. H-8139. (1954) Stations KEEN and LANA do not fall within the limits of this sheet.

Station TUNA is a marked topo station and was located by triangulation cuts to control the photo plot. Station POOL (Whirlpool Rock) was located by theodolite cuts. Other topographic stations appearing on the sheet are photo-hydro stations from Shoreline Manuscripts T-11324, T-11325, and were located by photogrammetric methods from 1954 field inspection data. (See Field Inspection Report for Maps T-11322(part), T-11324, T-11325, T-11329(part), T-11330(part), and T-11334(part) - EXPLORER - 1954.)
**Whirlpool rock approximately located on T-11324. No record of theodolite cuts found. No discrepancies in hydrography noticed.*

G. SHORELINE AND TOPOGRAPHY:

Shoreline and topography for this sheet are from Shoreline Manuscripts T-11324, T-11325, and T-11322, compiled from field inspection data from the 1954 field season. The shoreline is considered incomplete due to the lack of identified control in the vicinity of Cape Moffett. Field inspection is incomplete in the vicinity of Shagak Bay and Cape Moffett. (See Season's Report - USC&GSS EXPLORER - 1954 Season and Reference in Section F this report.) *See PI Re-view*

All off-shore signals are on rocks.

In general the low-water line was not defined by soundings. Surf conditions, kelp, and foul coast line prevented sounding into the low-water line. The foreshore is steep in various places and the low-water line is nearly in coincidence with the highwater line. In some areas the low-water line coincides with the ledge or reef line and is delineated on the manuscript.

Kelp and foul areas are defined by the hydrography and in most cases were sketched on the boat sheet as the work progressed.

Discrepancies between the topographic and hydrographic surveys, and notes concerning topographic detail are noted in section U of this report and in the appendix.

It is to be noted that references made by the hydrographer concerning distances to topographic detail are always estimated unless otherwise noted.

H. SOUNDINGS:

All soundings on sounding lines were obtained with echo sounding equipment listed previously in section C.

The headline soundings taken by Launch No. 3 were corrected in accordance with the following:

<u>MARK (fms)</u>	<u>TRUE LENGTH (fms)</u>	<u>CORRECTION (fms)</u>
3.0	3.0	0.0
4.0	4.0	+ 0.1
All intermediate marks		+ 0.1
23.0	23.1	+ 0.1
24.0	24.2	+ 0.2
All intermediate marks		+ 0.2
27.0	27.2	+ 0.2

(Based on comparison to steel tape 30 April 1954)

Handlead soundings were obtained on shoals or at detached positions while obtaining bottom samples.

See also "Special Report on Fathometer Corrections - Ship EXPLORER - Season 1954".

I. CONTROL OF HYDROGRAPHY:

Most hydrography was controlled by shoran stations KEEN, GULL, and LANA, using the pair which gave the strongest intersection. Some hydrography on the west side of Careful Point was controlled by sextant fixes on shore signals.

See "Special Report on Shoran Corrections," Project CS-218, 24 July to 12 September 1954 for description of shoran stations and derivation of corrections applied to shoran distances. *(Filed in Library)*

J. ADEQUACY OF SURVEY:

The hydrographic survey is considered complete and adequate and complies with the Project Instructions and practices noted in the Hydrographic Manual. There are no holidays in the sounding lines. Additional field inspection is necessary to complete the shoreline.

See Appendix I for discussion of junctions with adjoining surveys and comment with reference to depth curves.

See Processing Office Notes

See R1 Review

K. CROSSLINES:

Crosslines represent about 11% of the regular system of sounding lines. ✓

See Appendix I for discussion with reference to discrepancies at crosslines. (See *PN below*)

L. COMPARISON WITH PRIOR SURVEYS:

The only prior surveys of this area were those of the U.S. Navy Aleutian Islands Survey Expedition of 1933. The U.S. Navy surveys of Shagak Bay were not resurveyed and proper junctions were made with the Shagak Bay survey in accordance with Letter 22/MEK, S-1-EX, 4 May 1954 - Subject; "Hydrographic Surveys - Project CS-218." ✓

The remainder of this survey agrees in general with the prior U.S. Navy surveys and this survey supersedes all such prior surveys.

M. COMPARISON WITH CHART:

This is an original basic survey and supersedes all presently charted information. ✓

N. DANGERS AND SHOALS:

The entire shoreline is fringed with kelp and rocks. The bottom slope is generally steep and regular along the shoreline from Shagak Bay to Cape Moffett. However the area near the entrance to the Bay of Islands is irregular and several developments were run over shoal depths found in that area. ✓

Processing Office Notes

See Appendix I for a list of limiting dangers and features covered. ✓

O. COAST PILOT INFORMATION:

See "Coast Pilot Notes - U.S. Coast Pilot - Alaska, Part II, Yakutat Bay to Arctic Ocean - Ship EXPLORER - 1954," for Coast Pilot information and recommended anchorages. ✓

P. AIDS TO NAVIGATION:

There are no aids to navigation within the area of this survey and no bridges, overhead or submerged cables, or ferry routes exist. ✓

Q. LANDMARKS FOR CHARTS:

The only landmarks within the area of this survey are natural objects such as rocks, peaks, or hills. ✓

(See Special Report on Landmarks for Charts - Ship EXPLORER - Season 1954).

R. GEOGRAPHIC NAMES:

See "Special Report on Geographic Names - Bobrof, Kanaga, and Adak Islands - USC&GSS EXPLORER - Season 1954".

U. MISCELLANEOUS:

The shoreline north of latitude 51°52'5 in the vicinity of Cape Moffett was penciled on the smooth sheet pending shoreline inspection and final compilation. *shoreline inked. Section of Review*

No discrepancies were noted between the protracted shoran hydrography and the shoreline in the area north and east of Careful Point.

Z. TABULATION OF APPLICABLE DATA:

Data forwarded with this report:

1. Smooth Sheet H-8145.
2. 2 Boat Sheets H-8145 (Field Nos. EX-2554a, EX-2554b).
3. 5 Sounding Volumes 1 thru 5.
4. Fathograms for Launches No. 2, and No. 3.

Data forwarded separately:

- (a). Field Inspection Report - Maps T-11322(part), T-11324, T-11325, T-11329(part), T-11330(part), and T-11334(part). Ship EXPLORER Season 1954, forwarded to Washington Office 22 November 1954.
- (b). Tide Data for Sharp Point tide station forwarded 11 October 1954.
- (c). Tide Data for Adak (Sweeper Cove) tide station forwarded 18 November 1954.
- (d). Special Report on Shoran Corrections, 24 July to 12 September 1954 - Ship EXPLORER, forwarded 11 March 1955.
- (e). Special Report on Fathometer Corrections - Ship EXPLORER - Season 1954, forwarded 25 February 1955.
- (f). Special Report on Geographic Names - Bobrof, Kanaga, and Adak Islands - EXPLORER 1954, forwarded 18 November 1954.
- (g). Coast Pilot Notes - U.S. Coast Pilot - Alaska, Part II, Yakutat Bay to Arctic Ocean - Ship EXPLORER, 1954, forwarded 20 December 1954.

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-7-

- (h). Second and Third Order Triangulation, Adak Strait - Ship EXPLORER - 1954.
- (i). List of Directions, Fourth Order, Project CS-218 (Ph-34) Tanaga, Bobrof, Kanaga, and Adak Islands, 1954 Season - Ship EXPLORER.
- (j). Computations for positions of Shoran Stations, LANA, KEEN, and GULL, included in descriptive report for Hydrographic Survey H-8139.
- (k). Special Report on Non-floating Aids and Landmarks for Charts Ship EXPLORER - 1954 Season.
- (l). Records and data for Current Station No. 8 forwarded 14 September 1954.
- (m). Season's Report - Ship EXPLORER, Project CS-218, 1954, forwarded 30 November 1954.

Respectfully submitted,

Allan C. Haglund

Allan C. Haglund
Ensign, USC&GS

STATISTICS

HYDROGRAPHIC SURVEY H-8145 (1954)

FIELD NO. EX-2554

SHIP EXPLORER

PROJECT CS-218

<u>VOL. NO.</u>	<u>DAY LTR</u>	<u>DATE</u>	<u>H.L. OR WIRE SDGS</u>	<u>NO. POS.</u>	<u>STAT MI SDG LINES</u>
1 (1ch 2)	a	7/27/54	2	169	38.2
2 "	b	7/28/54	6	134	28.5
3 (1ch 3)	a	7/27/54	-	143	41.6
3 "	b	7/28/54	-	182	43.9
4 "	c	8/5/54	-	139	44.5
4 "	d	8/7/54	-	138	37.2
5 "	e	8/13/54	6	147	30.7
5 "	f	8/18/54	-	90	15.9
5 "	g	8/20/54	<u>4</u>	<u>34</u>	<u>6.83</u>
TOTALS			18	1176	286.8

Total area of hydrography - 19.0 square statute miles

1142 ✓

TIDAL NOTE

To accompany Hydrographic Sheet EX-2554, Reg. No. H-8145

With the exception of August 5 and August 20, tide reducers for the whole sheet were taken from the records of the ~~Sharp~~ Point gage with no correction for distance from the station. It is at Latitude 51-52.2, Longitude 177-04.1 and the staff reading of MLLW was 2.7 feet.

** outside limits of H-8145*

Reducers for August 20 were taken from a curve that was partly ~~Sharp~~ *Shoal* Point and partly Adak (Sweeper Cove) adjusted for range.

Reducers for August 5 were from Adak adjusted to the Sharp Point position.

APPROVAL SHEET
H-8145, EX-2554

This survey was accomplished entirely by EXPLORER Launches No. 2, and No. 3. The boat sheets and fathograms were inspected as the work progressed. With the exception of further field inspection for shore- ✓
line compilation, the survey is considered complete and adequate.

Some of the positions and soundings were smooth plotted by this ✓
command and the records transferred to the Processing Office for the remainder of the plotting.

The descriptive report, records, and smooth sheet have been ex- ✓
amined and are approved.



S. B. GRENELL
Captain, C&GS
Comdg. Ship EXPLORER

PROCESSING OFFICE NOTES
H-8145

G SHORELINE AND TOPOGRAPHY

The shoreline and detail north of Shagak Bay was transferred and inked in the Seattle Processing Office. The transfer was from a blueline tracing of T-11322, furnished by the Washington Office.

No discrepancies in shoreline were noted between the topography and the hydrography. The only discrepancies noted are symbolization. Three rocks shown on T-11324 as high water rocks at Lat. $51^{\circ}49.3'N$ Long. $176^{\circ}52.4'W$, are said, by the hydrographer, to bare 4 feet at MLLW. This would make them rocks awash. A rock awash 600 meters WNW of signal WES, at Lat. $51^{\circ}50.03'N$, Long. $176^{\circ}54.45'W$, is shown on the smooth sheet to be covered ~~4~~ feet at MLLW. This should be changed to a sunken rock. *Reviewer: See verifiers note at pos. 134c Revised 48 to 08*
(pos. 134 = 0.8) changed to + on oct. 9 193 Feb. 1957

H SOUNDINGS

A spot check or review was made of shoal soundings and soundings in kelp areas. It is noted that in a number of cases soundings were scanned at the top of evident kelp, sometimes where notes in the record made mention of kelp. Where fathograms were of reasonable clarity as to kelp, bottom, second echo and notes on kelp, changes were made in the records. This made a notable difference on some inshore lines and on some shoals, such as the spot north of Argonne Point and the shoal off Eddy Island.

No evidence of a 5 fm. handlead sounding at Lat. $51^{\circ}50.2'N$, Long. $176^{\circ}55.0'W$, as shown on the boat sheet, can be found. There are two fathometer soundings in the area of 7.9 fms. Heavy kelp makes the fathograms difficult to read. It is believed, after careful study, that 7.9 fms. is the least depth. A handlead sounding that reduces to 8.3 fms. was taken at position 26g. *(5 fm 72-73 cred revised to 8 ft) 72 fms 29-30 & 31-32 g brown)*

J ADEQUACY OF SURVEY

The survey is complete and the depth curves can be adequately drawn.

*See TP 3
Review*

Junctions with H-6883 and H-8147 have been compared and are in reasonable agreement. The junction with H-8139 will be compared when that sheet is completed. No copy of H-8236 is available for comparison in the Seattle Processing Office.

*See TP 4
Review*

N DANGERS AND SHOALS

A well defined bar of 0.8 to 0.9 fms. MLLW extends between the spits at the entrance to Shagak Bay. The outer area is shoal and foul with kelp.

Offshore from Eddy Island, at Lat. $51^{\circ}50.20'$, Long. $176^{\circ}55.00'$, ✓
is a shoal with a least depth of 7.9 fms. (See H SOUNDINGS)

To the north and south of Lat. $51^{\circ}48.75'$, Long. $176^{\circ}55.15'$ ✓
offshore from the point north of Argonne Point ~~and~~ ⁵ ~~two~~ least depths
of 4.2 fms. (26-27 e green)

A least depth of 8.2 fms. 500 meters north of signal POOL at ✓
Lat. $51^{\circ}50.30'$, Long. $176^{\circ}52.55'$. (5-6 e green)
67

Respectfully submitted

Clarence E. Pedersen -
Clarence E. Pedersen
Cart. Aid (Gen.), C&GS

Examined and Approved

William M. Martin
William M. Martin
Cartographer-in-Charge S.P.O.

Approved and Forwarded

Frank G. Johnson
Frank G. Johnson, Captain, C&GS
Seattle District Officer

GEOGRAPHIC NAMES ON H-8145

ADAK ISLAND

ADAK STRAIT

ARGONNE POINT

BAY OF ISLANDS

BERING SEA

CAPE KIGUGA

CAPE MOFFETT

CAREFUL POINT

CASCADE ROCK

CLIFF POINT

PODY I.
NORTH ID.

NORTH SPIT

SHAGAK BAY

SOUTH SPIT

UNALGA BIGHT

WHIRLPOOL ROCK

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~

8 January 1957

Division of Charts: R. H. Carstens *GR*

Plane of reference approved in
5 volumes of sounding records for

HYDROGRAPHIC SHEET 8145

Locality Aleutian Islands, Alaska

Chief of Party: S. B. Grenell in 1954
Plane of reference is mean lower low water, reading
2.7 ft. on tide staff at ~~Sharp~~ Point
10.5 ft. below B. M. 1 (1954)

Height of mean high water above plane of reference is 3.2 feet.

Condition of records satisfactory except as noted below:



Branch
Chief, ~~Division of Tides and Currents~~

GEOGRAPHIC NAMES

Survey No. H-8145

Name on Survey	A	B	C	D	E	F	G	H	K	
<u>Alaska</u>										1
<u>Aleutian Islands</u>										2
<u>Bering Sea</u>									BGN	3
<u>Adak Island</u>									"	4
<u>Cape Moffett</u>									"	5
<u>Cape Kiguga</u>									"	6
<u>North Spit</u>									"	7
<u>Shagax Bay</u>									"	8
<u>South Spit</u>									"	9
<u>Cliff Point</u>									"	10
<u>North Island</u>									"	11
<u>Bay of Islands</u>									"	12
<u>Cascade Rock</u>									"	13
<u>Careful Point</u>									"	14
<u>Whirlpool Rock</u>										15
<u>Eddy Island</u>									BGN	16
<u>Argonne Point</u>									"	17
<u>Unalga Bight</u>									"	18
<u>Adak Strait</u>										19
										20
										21
										22
<u>Tide Stations:</u>										23
<u>Adak (Sweeper Cove)</u>										24
<u>Shoal Point</u>										25
<u>(Kanaga I)</u>										26
										27
										28

} for title

(not Moffet)

Names approved

1-8-57. L. Heck

(this name should be used in place of Sharp Pt. as it is a B.G.N. decision and charts concerned will be changed to Shoal Pt.)

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8145...

Records accompanying survey:

Boat sheets 1a, b; sounding vols. 5....; wire drag vols.; bomb vols.; graphic recorder rolls 2-Envelopes special reports, etc. 1-Descriptive report, 1-Smooth sheet, and 1-Overlay. (filed with the Descriptive report).....

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

Number of positions on sheet	.....	1176
Number of positions checked	.....	19
Number of positions revised	.....	7
Number of soundings revised (refers to depth only)	.....	70
Number of soundings erroneously spaced	.....	10
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	8
Junctions	Time	16
Verification of soundings from graphic record	Time	8

Verification by *James E. Chackart* Total time 114... Date 4-9-58

Reviewed by *Im Gaskind* Time 52... Date 5-8-58

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8145

FIELD NO. EX-2554

Alaska-Aleutian Islands, Andreanof Group-Adak Island, East Side
Adak Strait

Surveyed July-Aug. 1954

Scale 1:20,000

Project No. CS-218

Soundings:

808 Depth Recorder
Leadline

Control:

Shoran
Sextant fixes on
shore signals

Chief of Party - S. B. Grenell

Surveyed by - M. E. Wennermark and D. M. Whipp

Protracted by - H. A. Garcia, K. W. Jeffers and C. E. Pedersen

Soundings plotted by - H. A. Garcia and C. E. Pedersen

Verified and inked by - J. E. Gearhart

Reviewed by - I. M. Zeskind

Date 5/8/58

Inspected by - R. H. Carstens

1. Shoreline and Control

The shoreline originates with reviewed air-photographic surveys T-11322, T-11324 and T-11325 of 1953-54 and T-11564 and T-11565 of 1954.

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 character of the bottom, kelp and surf conditions prevented development to the low-water line.

The bottom is generally smooth, except close inshore, north of approximately lat. $51^{\circ}52.3'$, and westward of Bay of Islands. Submarine features such as ledges, ridges, shoals and pinnacles contribute to the bottom irregularity.

4. Junctions with Contemporary Surveys

Adequate junctions were effected with H-8236 (1955) on the northeast, with H-8139 (1954) on the west, with H-8146 (1954) on the southwest north of Argonne Point and with H-8147 (1954) on the south between Careful Point and Cliff Point. The present survey extends to the project limits in Shagak Bay, where junctional depths are in adequate agreement for charting purposes with depths on U. S. N. survey H-6883. (See Paragraph L of the Descriptive Report.)

5. Comparison with Prior Surveys

A. H-6881 USN (1933), 1-40,000 H-6883 USN (1933), 1-10,000
H-6882 USN (1933), 1-40,000 H-6884 USN (1933), 1-6,000

These prior surveys together cover the area of the present survey. Except in Shagak Bay where the present survey falls in an area which is covered by U. S. Navy survey H-6883, discrepancies in depths of as much as 9 fms. between the prior and present surveys are noted. In Shagak Bay only minor differences of 1 fm. in depths less than 10 fms. and as much as 4 fms. in greater depths are noted between U. S. N. survey H-6883 and the present survey. The shoal which lies between the North and South Spits at the entrance to Shagak Bay has not changed in location or depth. The least depth across this shoal remains $3/4$ fms. The discrepancies in depths between the U. S. Navy and the present surveys are attributed to improper spacing of soundings and errors in depth on the Navy surveys. A number of discrepancies in rock delineation along the foreshore of Adak Island between the U. S. Navy and present surveys are also noted. A number of bottom characteristics have been carried forward from the U. S. Navy surveys to the present survey.

With the addition of these bottom characteristics, the present survey is adequate to supersede the U. S. Navy surveys within the common area.

B. Wire Drag Survey

H-6885 WD, USN, (1933), 1-6,000

Present depths do not conflict with the effective depths shown on this wire-drag survey.

6. Comparison with Chart 9120 (Latest print date 4-18-25)
Chart 9121 (Latest print date 8-25-52)
Chart 9193 (Latest print date 6-3-57)

A. Hydrography

The charted hydrography originates with the previously discussed U. S. Navy surveys which need no further consideration, supplemented by a few soundings from the boat (Bp. 51926) and smooth sheets of the present survey. The soundings charted from the smooth sheet were applied before the smooth sheet was verified and reviewed. Only minor revisions of as much as 1 fm. were made to the charted depths originating with the present survey after verification and review.

The present survey is adequate to supersede the charted hydrography within the common area.

B. Aids to Navigation

There are no 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.

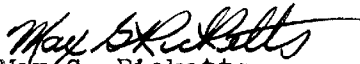
8. Compliance with Project Instructions

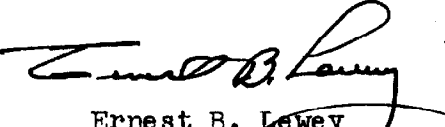
The survey adequately complies with the Project Instructions.

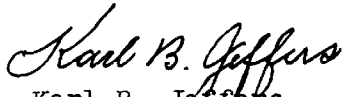
9. Additional Field Work Recommended

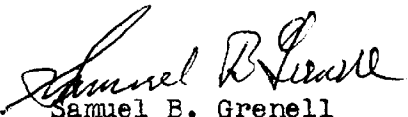
The survey is considered basic and no additional field work is recommended.

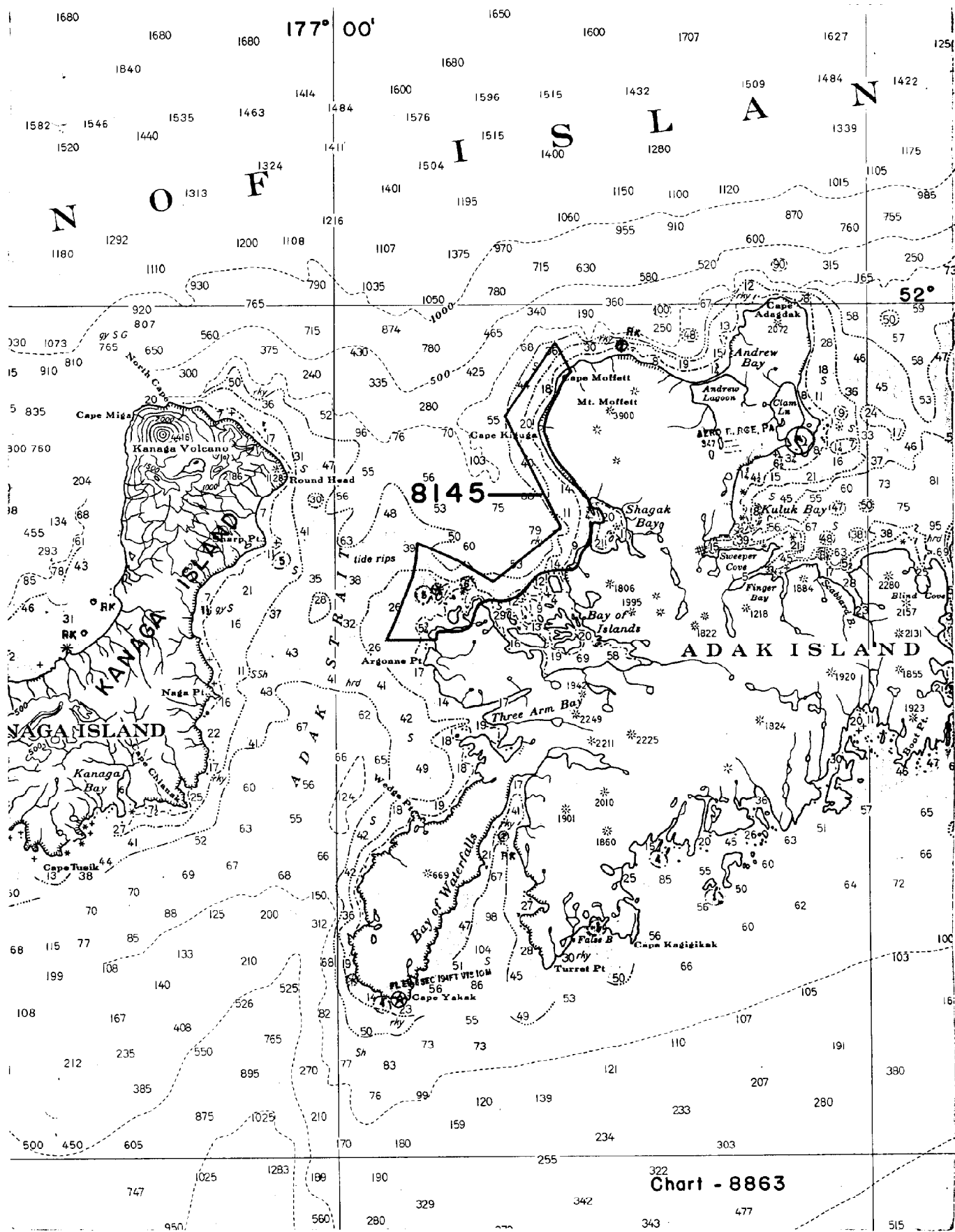
Examined and approved:


Max G. Ricketts
Chief, Nautical Chart Branch


Ernest B. Lewey
Chief, Division of Charts


Karl B. Jeffers
Chief, Hydrography Branch


Samuel B. Grenell
Chief, Division of Coastal Surveys



NAUTICAL CHARTS BRANCH

SURVEY NO. H-8145

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
-1/14/57	9193	G.E. Thayer	Partial Application - filled in blank areas. Before After Verification and Review
6-20-58	8863	D.R. Williamson	Before After Verification and Review
10/27/58	9120	J.A. McGinnis	Before After Verification and Review Partially applied (Holidays filed in with edgs.)
10-1-59	9120	T.A. Dimmock	Before After Verification and Review
10-1-59	#		Fully applied
3-10-'61	9102	J.M. Albert	Examined via 8863. No correction Before After Verification and Review
2/2/66	9193	John P. Wei	Before After Verification and Review Part Applied thru Ch. 9120 dws #3, Examiner
9-12-67	9121	D.J. Romesburg	Fully Before After Verification and Review Added new hydro (Soundings & curves)
12/30/92	16467	Joseph Robinson	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.