8298

Diag. Cht. Nos. 8302-3 and 8860-3.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. PF-2456 *Office No.* H-8298

LOCALITY

State Alaska

General locality North Side Alaska Peninsula

Locality Slime Bank

194 56

CHIEF OF PARTY

John Bowie

LIBRARY & ARCHIVES

DATE November 27, 1956

B-1870-1 (1)

8298

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-8298

Field No. PF-2456

State ALASKA

General locality North Side Alaska Peninsula

Locality Slime Bank

Scale 1:20,000 Date of survey 30 August 1956

Instructions dated 20 December 1954, 21 October 1955

Vessel USC&GSS PATHFINDER

Chief of party John Bowie

Surveyed by W. E. Randall

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

Fathograms scaled by Buxton

Fathograms checked by R. Gabrielson

Protracted by R. Bernard

Soundings penciled by R. Bernard

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 777032

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8298 (PF-2456)

NORTH SIDE OF ALASKA PENINSULA

SCALE: 1:20,000 30 August 1956

USC&GSS PATHFINDER JOHN BOWIE, COMDG.

A. PROJECT:

This survey is a part of Project 13750. Original Instructions were dated 20 December 1954 and Supplemental Instructions were dated 21 October 1955, both issued by the Director.

B. SURVEY LIMITS AND DATES:

This survey covers an area between latitudes 55° 09' and 55°13' and longitudes 163° 47' and 163° 57'. A junction with contemporary survey H-8303 (1956) was made to the east.

Junctions with previous surveys H-6973 (1943) to the northwest and H-6790 (1940-41) to the south were made.

Hydrography was started and completed on 30 August 1956.

C. VESSEL AND EQUIPMENT

All hydrography was done with the Ship PATHFINDER. Soundings were obtained with 808 recording fathometer No. 130S.

D. TIDE AND CURRENT STATIONS:

No tide stations fall within the limits of this survey. Tide corrections were obtained from the portable automatic gage at Amak Island, see TIDE NOTE attached.

No current stations were observed within the limits of this survey.

E. SMOOTH SHEET:

The smooth sheet was made by hand by ship personnel. Several geographic positions on shoran arcs were computed and plotted. The arcs were then drawn thru these points using a set of shoran curves.

F. CONTROL STATIONS:

No control stations appear on this sheet. NAP & WIN

Ref. Sta. △GLAZENAP 1952 Lat. 55°14'26.596" 822.5 m (3033.6)
Long. 162°59'45.507" 804.1 m (2561)

△WIND 1924 Lat. 55°00'34.747" 1080.7 m.
Long 163°30'37.088" 659.1 m.

G. SHORELINE AND TOPOGRAPHY:

No shoreline falls on this sheet.

H. SOUNDINGS:

Soundings were recorded in fathoms on 808 type fathometer No. 130S.

The fathometer initial was set and kept at 2.0 fathoms. A midship draft reading was taken while underway doing hydrography. A correction for the difference between the initial and the draft was applied to all soundings. It was found during the season that such soundings corrected for draft agreed favorably with wire soundings. Special Report - Fathometer Corrections No. 151. (Bowie)

All soundings were recorded on "A" scale, so no phase correction was necessary. The only corrections applied to the soundings were those for draft (initial) and tide.

I. CONTROL OF HYDROGRAPHY:

All positions were determined by shoran distances from stations NAP and WIN. The towers for these two stations were erected alongside triangulation stations GLAZENAP, 1952 and WIND, 1923. see AP F for G.P.

Correctors that were applied to the shoran readings were obtained by plotting a true position obtained with a visual 3-point fix. The differences between the scaled distances and shoran distances to this point were the shoran corrections. A separate Shoran Correction Report will be submitted for the entire project. Special Report Shoran Corrections No. 152. (Bowie)

J. ADEQUACY OF SURVEY:

This survey is complete and adequate for charting purposes.

The junction with prior survey H-6973 (1943) to the northwest show the old soundings to be about 1 fathom deeper than those obtained with this survey. Agreement at the junctions with prior survey H-6790 (1944-45) to the south and contemporary survey H-8303 (1952) to the east is excellent.

The overlap with adjoining surveys is adequate and no holidays were left. Smooth depth curves can be drawn.

K. CROSSLINES:

Approximately 10% of the hydrography is crosslines. All crossings are excellent.

L. COMPARISON WITH PRIOR SURVEYS:

No prior survey of the area is available. Junctions made with prior surveys are discussed under "J" above.

M. COMPARISON WITH CHARTS:

The several soundings that appear on charts 8802 and 8860 in the area of this survey are about one fathom deeper than shown by the smooth sheet.

N. DANGERS AND SHOALS:

There are no dangers or shoals in the area of this survey.

O. COAST PILOT INFORMATION:

Coast Pilot Information for this project will be submitted as a separate report.

P. AIDS TO NAVIGATION:

No Aids to Navigation exist within the limits of this survey.

Q. LANDMARKS FOR CHARTS:

No Landmarks for Charts exist within the limits of this survey.

R. GEOGRAPHIC NAMES:

Within the limits of this survey, no geographic names appear on the charts and none are recommended.

S. SILTED AREAS:

No silted areas were noted.

T. BY-PRODUCT INFORMATION:

No bottom specimens were taken within the small area of this

survey; however inspection of the fathograms and information from ajoining surveys indicate the bottom to be fine black sand and relatively flat.

Z. TABULATION OF APPLICABLE DATA:

1. Fathometer Report (Special Report No.151. - Bowie)
2. Shoran Correction Report Special Report. No.152 - Bowie)
3. Coast Pilot Report

Respectfully submitted,

John O. Boyer

John O. Boyer
LCDR, USC&GS

APPROVED AND FORWARDED:

John Bowie

John Bowie
Captain, C&GS
Comdg. Ship PATHFINDER

TIDE NOTE FOR HYDROGRAPHIC SURVEY

H-8298 (PF-2456)

A portable automatic tide gage was in operation during this survey at latitude 55° 24.8', longitude 163° 06.9' on the east side of Amak Island.

Corrections from observed tides referred to M.L.L.W. were applied to all soundings.

STATISTICS FOR HYDROGRAPHIC SURVEY

H-8298 (PF-2456)

VESSEL:	SHIP PATHFINDER
DATE:	30 AUGUST 1956
VOLUMES:	1
POSITIONS:	77
STATUTE MILES:	49.2
AREA: SQ. STAT. MILES	28.0

APPROVAL SHEET

HYDROGRAPHIC SURVEY H-8298 (PF-2456)

This survey was done under my close supervision. I consider this survey complete and adequate for charting. No additional work is recommended within the area covered.

John Bowie

John Bowie
Captain, USC&GS
COMDG. SHIP PATHFINDER

Form 712
(11-30-55)

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

8298 C.

TIDE NOTE FOR HYDROGRAPHIC SHEET

10 December 1956

Chart Division: R. H. Carstens:

Plane of reference approved in
1 **volumes of sounding records for**

HYDROGRAPHIC SHEET 8298

Locality North Side of Alaska Peninsula

Chief of Party: J. Bowie in 1956

Plane of reference is mean lower low water, reading

2.5 **ft. on tide staff at** Amak Island

16.4 **ft. below B.M.** 2 (1941)

Height of mean high water above plane of reference is

6.9 feet.

Condition of records satisfactory except as noted below:

William Shofus
Signature

Chief, Tides Branch

Comm-DC 34330

GEOGRAPHIC NAMES

Survey No. 8298

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H	K U. S. Light List	
Alaska		} for title								1
Alaska Peninsula									BGN	2
Bering Sea									"	3
Slime Bank										4
				Names approved						5
				12-10-56.						6
				L. Heck						7
										8
Amak Island		(location of tide station)								9
										10
										11
										12
										13
										14
										15
										16
										17
										18
										19
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										21
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										24
										25
										26
										27

M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. .8298...

Records accompanying survey:

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

bomb vols. .....; graphic recorder rolls 1-Envelope

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

and 1-Cahier (3 ea. Shoran Plotting Abstracts).....

2-Special Reports with Shoran and Fathometer Corrections, see Descriptive Report H-8297.

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

Number of positions on sheet		77
Number of positions checked		25
Number of positions revised		none
Number of soundings revised (refers to depth only)		none.
Number of soundings erroneously spaced		none.
Number of signals erroneously plotted or transferred		none.
Topographic details	Time	.....
Junctions	Time	5 hr.
Verification of soundings from graphic record	Time	1 hr.

Verification by William L. Higley Total time 23 Date 7/25/58

Reviewed by ..... Time 5 hrs. Date Sept 23/1958

M-2232-1

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8298 FIELD NO. PF-2456

Alaska, North Side Alaska Peninsula, Slime Bank

Surveyed August 30, 1956 Scale 1:20,000

Project No. 13750

Soundings: 808 Depth Recorder Control: Shoran

Chief of Party - John Bowie
Surveyed by - W. E. Randall
Protracted by - R. Bernard
Soundings plotted by - R. Bernard
Verified and inked by - W. L. Higley
Reviewed by - L. S. Straw Date 22 Sept. 1958
Inspected by - R. H. Carstens

1. Shoreline and Signals

There are no land areas within the limits of this offshore survey. The origin of the control is given in the Descriptive Report.

2. Sounding Line Crossings

The crosslines are adequate, and the depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

With the additional soundings from H-6790 (1940-41) and H-6790 (1940-41) the 20-fathom curve can be satisfactorily delineated. No other depth curves fall within the limits of the survey. The bottom is smooth and slopes to the northwestward at the rate of about 16 feet per mile from lat. 55°10' long. 163°52'. According to the Descriptive Report, the predominant bottom character is fine black sand.

4. Juntions with Contemporary Surveys

Adequate functions were affected with H-8303 (1956) on the east; H-6790 (1940-41) on the south; and H-6791 (1940-41) on the north and west.

The present survey also overlaps H-6973 (1943) on the northwest and is in some places one fathom shoaler. For cartographic purposes a butt junction was made with this survey.

5. Comparison with Prior Surveys

Except for the extensive overlap with the surveys mentioned in paragraph 4, no prior basic surveys were made in the area by this Bureau.

6. Comparison with Chart 8860 (latest print 3-24-58)

A. Hydrography

The very few soundings charted within the limits of the present survey are from the 1940-43 surveys; as stated in paragraph 4 of this review, the depths on the present survey are from ½ to 1 fathom shoaler. The charted depths are in substantial agreement with those on the present survey, however, more soundings can be applied to the chart in this area to conform to the density of soundings in adjacent areas.

B. Aids to Navigation

No aids to navigation are charted in this area. No dangers to navigation are revealed by the present survey.

7. Condition of Survey

a. The sounding records and Descriptive Report are complete and comprehensive.

b. The smooth sheet plotting was excellent.

c. No bottom characteristics were obtained within the area of the present survey (see paragraph 3).

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions, except as noted in paragraph 7c above.

9. Additional Field Work

This is an adequate basic survey and no additional field work is required.

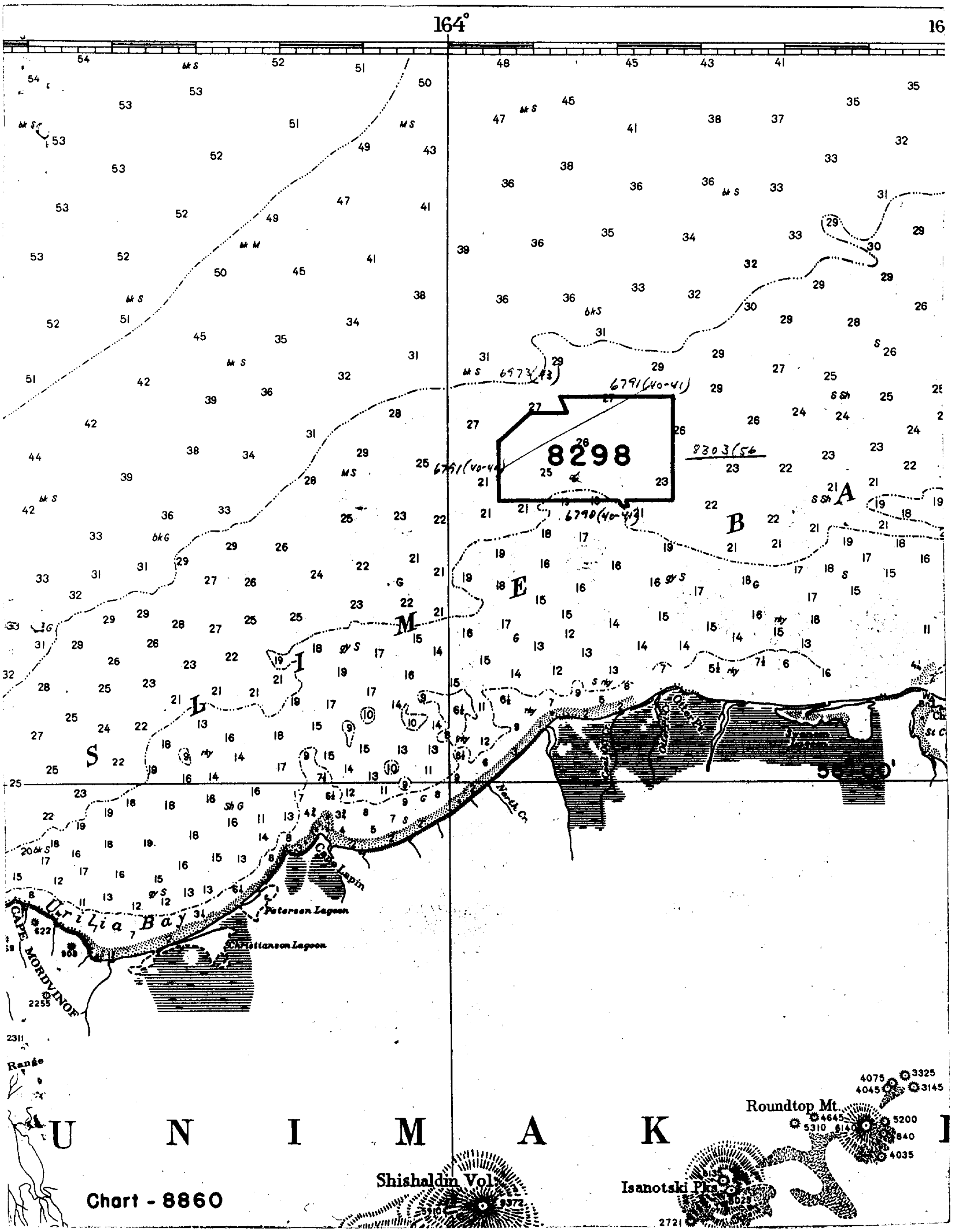
Examined and approved:

Max G. Ricketts
Chief, Nautical Chart Branch

Ernest B. Lowey
Chief, Division of Charts

Lorin F. Woodcock
Chief, Hydrography Branch

Samuel B. Grenell
Chief, Division of Coastal Surveys


164°
8298
6973(43)
6791(40-41)
6790(40-41)
8303(56)
55°00'
Urilia Bay
Petersen Lagoon
Christianson Lagoon
Cape Lapin
North Cr.
CAPE MORDVINOF
Roundtop Mt.
Shishaldin Vol.
Isanotski Pks
U N I M A K
Chart - 8860

NAUTICAL CHARTS BRANCH

SURVEY NO. 8298

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
11/21/57	8860	D.a.M.	Before After Verification and Review
			Examined only
2/20/59	8560	J.T.V	~~Before~~ After Verification and Review Completely
4-15-59	8502	R. K. McFarlane	~~Before~~ After Verification and Review thru edit 8860
			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
			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.