7081

Diag. Cht. No. 8863-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. SU-2445 Office No. H-7081

LOCALITY

State Alaska - Aleutian Islands

General locality Andreanof Islands

Locality Approaches to Kanaga Pass

1945

CHIEF OF PARTY

C.D. Meaney, Commanding Ship Surveyor.

LIBRARY & ARCHIVES

DATE May 15, 1946

3-1870-1 (1)

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-7081

Field No. SU 2445

State	ALASKA - Aleutian Islands
State	drean of A lburian Islands
Locality	APPROACHES TO KANAGA PASS
Scale1:20,000	Date of survey October, 1945
Instructions dated 3 Febr	ruary 1938
Vessel	SURVEYOR
Chief of party	C. D. Meaney
Surveyed by	C. D. Meaney
Soundings taken by fathometer;	graphic recorder, hand lead, wire
Protracted by	Betty B. Jones
	Betty B. Jones
Soundings in fathoms feet	at -MEW MLLW and are true depths
REMARKS: Incompleted	Survey - completed on adjacent Survey H.
Smooth Sheet	and Processing by Seattle Processing Office.

NOTE TO ACCOMPANY

HYDROGRAPHIC SURVEY

SU-2445

7081

APPROACH TO KANAGA PASS - SOUTH PART

1945 C.S. 218

Scale:

1/20000

Chief of Party: C.D. Meaney, Commanding Ship SURVEYOR, 1945

Field work by: C.D. Meaney

A. PROJECT:

This work was executed under Instructions for Project C.S. 218
dated 3 February 1938; Supplemental Instructions dated 16 April, 1943
and 1 February 1944; Instructions issued by Capt. F.B.T. Siems dated
5 May and 28 May 1945.

B. SURVEY LIMITS AND DATES:

complete with H-8053

This is an incompleted survey and consists of parts of wo days of ship hydrography in the southern approache to Kanaga Pass. The work was done October 3 and 4. Adverse weather conditions prevented further hydrography.

C. VESSELS AND EQUIPMENT:

The hydrograpy was executed from the Ship SURVEYOR using the Dorsey

III fathometer with an 808 recorder for verification to obtain all

depths.

D. TIDES AND CURRENTS:

All tidal data for the reduction of soundings was obtained from the portable automatic tide gage on Ogliuga Island by applying a time difference of minus one hour and a range factor of 1.2. (See Directors letter 12 December 1945).

E. SMOOTH SHEET:

To be plotted by the Seattle Processing Office.

F. CONTROL STATIONS:

Signals previously located by triangulation or topography and one signal (Cone) located by sextant cuts were used to control the hydrography.

G. SHORELINE AND TOPOGRAPHY:

To be taken from air photos compilation completed in 1944.

None applied on this off shore sheet

- H. SOUNDINGS:
 - Standard methods were used to obtain all depths.
- I. CONTROL OF HYDROGRAPHY:

 All sounding lines were controled by sextant fixes.
- J. ADEQUACY OF SURVEY:
 Incomplete.
- K. CROSSLINES:
 Only one crossline run. Crossings are satisfactory.
- L & M. COMPARISON WITH PRIOR SURVEYS AND CHART:
 No prior surveys in the area covered.
- N. DANGERS AND SHOALS:

 None in the area surveyed.
- O. COAST PILOT INFORMATION:
 No additional information;
- P. AIDS TO NAVIGATION:

 None in area surveyed.
- Q. LANDMARKS FOR CHARTS:
 No additional.
- R. GEOGRAPHIC NAMES:

 To be compiled by Seattle Processing Office.
- S. SILTED AREAS:

 None in area surveyed.

Respectfully submitted,

WILBUR R. PORTER

Lt. Comdr., C. & G. Survey

APPROVED:

Lt. Comdr., C. & G. Survey

Comdg. Ship SURVEYOR

7081

STATISTICS FOR HYDROGRAPHIC SURVEY SU-2445

Date	Vol.	Day	No. Pos.	No. Stat. Miles
10-3-45	1	Α	130	65.9
10-4-45	1	В	10	4.1
			 	
	•	TOTAL	140	70.0

Area - 14 square miles.

TIDE NOTE

The Ogliuga gage was used for all reducers.

Latitude 51° 36.2'N Longitude 178° 37.0'W

Time difference - one hour Range factor - 1.2

See Director's Letter 36 mlh of 12/12/45 to C.O. SURVEYOR

GEOGRAPHIC NAME LIST

VELOCITY CORRECTIONS

The standard method of computing velocity corrections from the temperature, Salinity and Pressure curves was followed. These corrections have been entered and checked. A copy of the correction applied is attached.

LIST OF SIGNALS USED

NAME	ORIGIN	
ANNOY ROCK	Priangulation	1943
Cone	Sextant outs,	Voll 1
EDDY ROCK	Triangulation	
FARM	T	Ħ
FOUL	H H	17
GOOSE	Ħ	17
MIK	Ħ	
NEW	Ħ	11
OFF	n en	Ħ
SAS	Ħ	Ħ

South part Kanaga Pass

H-7081

SU 2445

Seattle Processing Office Notes

The Smooth Sheet is hand made on Paragon paper.

The Shoreline is transferred from H-7022. No topographic surveys have been made. The shoreline on H-7022 is from air photographs fitted between control stations without radial plot. removed from

Unfinished sheet. As there has been only a small amount of not need work done on this sheet, is is presumed that the smooth sheet will be returned to the Processing Office for further plotting when additional field work is done. Overlapping hydrog, on H-fosi(1953) transferred to H-7081 in Wash. Office.

Boat Sheet. This is being returned to the field party. It has been compared with the smooth sheet.

Additional development is indicated by the 44 fathom sounding at 126-127 A day, Latitude 51° 3813 Longitude 177° 4919. This appears on the 808 fathogram as a well defined sharp rise and fall. This has been noted on the boat sheet. 444. development on H-8053 (1953).

Respectfully submitted,

Cartographic Engineer

Seattle Processing Office

June to October 1946

Temperature & Salinity Corrections

R.C.A. Model N.M.C.

R.C.A. Model N.M.C.

	I	epth		Correction		Dej	pth		Correction
0	to	47.5	îms.	+0.0 fms.	1383	to	1455	fms.	118.0 fms.
48	to	105	n	+0.2	1456	to	1530	14	+ 20 .0
105	to	112	11	+0.4	1531	to	1559	17	†22. 0
113	to	238	Ħ	+0.5	1600	to	1650	11	⁺ 24.0
239	to	337	11	+1.0	1651	to	1710	Ħ	26•0
338	to	41.6	н	+1.5	1711	to	1770	Ħ	28•0
417	to	485	11	+2.0	1771	to	1830	11	<u>`</u> 30.0
486	to	545	rt	+2.5	1851	to	1890	11	_ 32.0
54 6	to	602	11	+3.0	1891	to	1940	10	34.0
603	to	650	Ħ	+8.5			1995	Ħ	36 ₋ 0
651	to	700	tt	+4.0			2020	Ħ	±38.0
701	to	741	12	+4.5			2140	#	" 40<u></u>-0
742	to	781	tt	+ 6•0	2141		2250	n	+45.0
782	to	816	11	+ 5 ∙5	2251		23 55	tt	+ 50.0
817	to	855	11	+6.0			2455	11	+ 55.0
856	to	888	Ħ	+6.5	2456		2555	19	+ 60.0
889	to	919	0	+7.0	255 6		2650	11	+ 65.0
920	to	948	Ħ	+7. 5	2651		2750	11	+70.0
949		975	Ħ	⊣8 •0	2751		2835	M 	+75.0
976	to	1002	14	+8•5			2920	n	+80.0
1003	to	1029	11	+ 9 •0			3000	11	+85.0
1030	to	1056	Ħ	+9 • 5			3080	11	+ 90.0
1057	to	1081	H	+10.0	5061		3155	Ħ	+ 95.0
		1106	17	+10.5			3235	es	+ 100.0
1107		1130	11	+11.0			3310	**	+ 105.0
1131	to	1154	14	+11.5			3 380	11	+ 110.0
1155		1178	45 88	+12.0			3450	11	+ 115.0
		1200	19	+12.5			3540	H	+ 120.0
		1220	10	-1 .3.0			3610	4	+ 125.0
1221	to	1300	11	+1.4.0			3690	**	+ 180.0
1301	to	1382	14	416.0	3691	to	3765	H	+ 135.0

DRAFT & INSTRUMENTAL CORRECTIONS SHIP SURVEYOR

	Season = 1945		808	N.M.C. Red Light	N.M.C. Recorder
Delarof	Delarof Islands		Initial 2.0	Initial 2.2	Initial 0.0
In fai	th cas	Inst. error	Inst. error 0.0	Inst. error 0.1	Inst. error 0.1
Date	Ships Draft				9.0
6-5	1.9	-0.2	-0.1	-0.2	+2•0 + 2• 0
6-6	1.9	-0.2	-0.1	-0.2	+2.0
ं तें	1.9	-0.2	-0.1	-0-2	+1.9
6−8	1.8	-0.3	-0.2	-0.3	
6-15	2.2	+0.1	+ 0.2	+0.1	+ 2•3 +2•2
7-7	2.1	0.0	+ 0.1	0.0	
7-8	2.0	-0.1	9. 0	-0.1	+2 .1 +2 .1
7-9	2.0	-0.1	0.0	-0.1	+2.1
7-10	8.0	-0.1	0.0	-0.1	+2.1
7-11	2.0	-0.1	0.0	-0.1	+2.0
7-12	1.9	-0.2	-0.1	-0.2	+2.2
7-13	2.1	0.0	+ 0.1	0.0	+2.1
7-14	2.0	-0.1	0.0	-0.1	+2.0
7-19	1.9	-0.2	-0.1	-0.2	+2.1
7-20	2.0	-0.1	0.0	-0.1 .	+1.9
7-24	1.87	-0.3	-0.2	-0.5 -0.5	+1.9
7-27	1.8	-0.5	-0.2	-0.3	+2.2
8-3	2.1	0.0	+ 0.1	0.0	
8-8	2.1	0.0	+ 0.1	0.0	+2.2
8-10	2.1	0.0	+ 0.1	0.0	+2.2
8-11	2.0	-0.1	0.0	-0.1	+2.1
8-13	2.0	-0-1	0.0	-0.1	+2.1
8-18	2.0	-0-1	0.0	-0.1	+2.1
8-24	2.0	-0.1	0.0	-0.1	+2.1
8 -25	1.9	-0.2	-0.1	-0.2	+2.0
8-28	1.9	-0.2	-0.1	-0.2	+2.0
8-29	1.9	-0.2	-0-1	-0.2	+2.0
8-51	1.9	-0.2	-0.1	-0.2	+2.0
95	1.9	-0.2	-0.1	-0.2	+ 2.0
96	2.1	0.0	+0.1	0.0	+ 2-2
9-7	2.1	0.0	+0.1	×0 -0	+ 2.2
9-8	2.0	-0.1	0.0	-0-1	+ 2.1
9-10	2.0	-0-1	0.0	-0-1	+2.1
9-11	2.0	-0.1	0•0	-0.1	+2.1
9-12	2.0	-0.1	0.0	-0_1	+2.1
9-13	2.0	-0.1	0.0	-0.12	+ 2.1
9-14	2.0	-0.1	0.0	-0.3	+2.1
9-28	2.1	0.0	+ 0.1	0-0	+ 2.2
9~29	2.0	-0.1	0.0	-0.1	+ 2.1
10-2	1.9	-0.2	-0.1	-0-2	+ 2.0
ე⊶3	1.9	-0.2	-0.1	-0.2	+ 2.0
10-4	1.9	-0.2	-0.1	-0.2	+ 2.0
10-5	1.9	-0.2	∞0.1	-0.2	+ 2.0
10-8	1.9	-0.2	-0.1	-0.2	+ 2.0
	1.8	-0.3	-0.2	-0.5	+ 1.9

South Part Kanaga Pass

H-7081

SU 2445

Geographic Names Penciled on Smooth Sheet

Tanaga Island

Kanaga Pass

Kanaga Island

TIDE NOTE FOR HYDROGRAPHIC SHEET

Division-of-Hydrography-and-Topography:

June 10, 1946

Division of Charts: H. W. MURRAY

Plane of reference approved in 1 volumes of sounding records for

> HYDROGRAPHIC SHEET 7081

Locality South end of Kanaga Pass, Aleutian Islands, Alaska

Chief of Party: C. D. Meaney in 1945 Plane of reference is mean lower low water, reading 3.8 ft. on tide staff at Oglimma Island 4.7 ft. below B. M. 1

Height of mean high water above plane of reference is 3.5 feet.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

E.C. Mikay

	GEOGRAPHIC NAMES Survey No. H7() Q 1		ous surd	diagian	(a) .0r	Mag	. se of	M. Mali	ATT.	5 /
		6	No Or	40 Or	D D	St. local tot	20. local Maga	O Guide of	Mod McKolling	A. J.	/
	Name on Survey	/ A	/ B	<u> </u>	/ D	E	/ F	/ G	<u>/ H</u>	/ K	_
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Hydrographic Surveys (Chart Division)

Records accompanying survey:	`		
(returned to field)		5	
Boat sheets; sounding vols; wi	ire drag	xola.	• • • • ;
bomb vols; graphic recorder rolls	٦;		
special reports, etc	• • • • • • •	• • • • •	• • • • • •
	• • • • • •		• • • • • •
The following statistics will be submitted wit rapher's report on the sheet:	th the c		
Number of positions on sheet		140	
Number of positions checked		.24	
Number of positions revised		3	
Number of soundings revised (refers to depth only)		/	
Number of soundings erroneously spaced		15	
Number of signals erroneously plotted or transfermed			
Topographic details	Time		÷
Junctions	Time		
Verification of soundings from graphic record	Time	1 Hr	
Verification by F. J. ORTIZ		Date	6/18/46
a. F. Jordan	1 pr.		7/19/46
Reviewed by J. Joedan. Time	10hr	Date	7/19/46 10-13-55

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7081

FIELD NO SU-2445

Alaska, Aleutian Islands, Andreanof Islands, Approaches to Kanaga Pass

Project No. CS-218

Surveyed, October, 1945

Scale 1:20,000

Soundings:

Control:

Dorsey III Fathometer 808 Fathometer

Sextant fixes on shore signals

Chief of Party - C. D. Meaney
Surveyed by - C. D. Meaney, R. C. Rowse, F. Natella, W. R. Porter,
and H. O. Fortin
Protracted by - B. B. Jones
Soundings plotted by - B. B. Jones
Verified and inked by - F. J. Ortiz
Reviewed by - I. M. Zeskind 10-13-55
Inspected by - R. H. Carstens

The basic development of this area is completed by soundings transferred from H-8053 (1953) and the Review is now submitted.

1. Shoreline and Control

No shoreline is shown on this offshore survey.

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 are adequately delineated.

The bottom is generally smooth, except in the northern and eastern portions of the survey where shoals and ridges contribute to the bottom irregularity.

4. Junctions with Contemporary Surveys

An adequate junction was effected with H-8053 (1953) on the north and east. The junction with H-8051 (1953) on the west is deferred pending the completion of the inking of that survey. The junction with H-8056 (1953) on the south will be considered in the review of that survey.

5. Comparison with Prior Surveys

H-6908 (1942) (U. S. Navy Recon.), 1:20,000 H-6778 (1943-45), 1:120,000

These reconnaissance surveys fall within the area of the present survey. A comparison between H-6908 and the present survey reveals differences in depth of as much as 10 fms. As for example in lat. 51°39.39', long. 177°47.90', where a prior depth of 47 fms. falls in present depths of 56-57 fms. These differences in depths are attributed to deficiencies in survey H-6908, such as faulty fathometer soundings and weak horizontal control as evidenced by discrepancies at crossings of as much as 6 fms. on that survey. About 10 soundings on one line of soundings on H-6778 fall within the area of the present survey. Minor differences of 1-2 fms. in depths between survey H-6778 and the present survey are noted.

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

6. Comparison with Chart

Chart Drawing 9145 dated Oct., 17, 1955

A. Hydrography

The charted hydrography originates with the following surveys prior to verification and review: The present survey, H-8053 (1953), and H-8051 (1953). The charted hydrography is in adequate agreement with the present survey.

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.

- (c) Only one bottom characteristic was obtained in the area.
- 8. Compliance with Project Instructions

With the addition of the overlapping hydrography of H-8053 (1953), the present survey adequately complies with the Project Instructions, except for the lack of bottom characteristics mentioned in paragraph (c) above.

9. Additional Field Work Recommended

With the addition of the supplemental soundings from H-8053, the present survey is considered basic and no additional field work is recommended. As a matter of record, attention is called to the lack of bottom characteristics obtained in the area of the present survey as mentioned in paragraphs 7c and 8 above.

Examined and Approved:

H. R. Edmonston

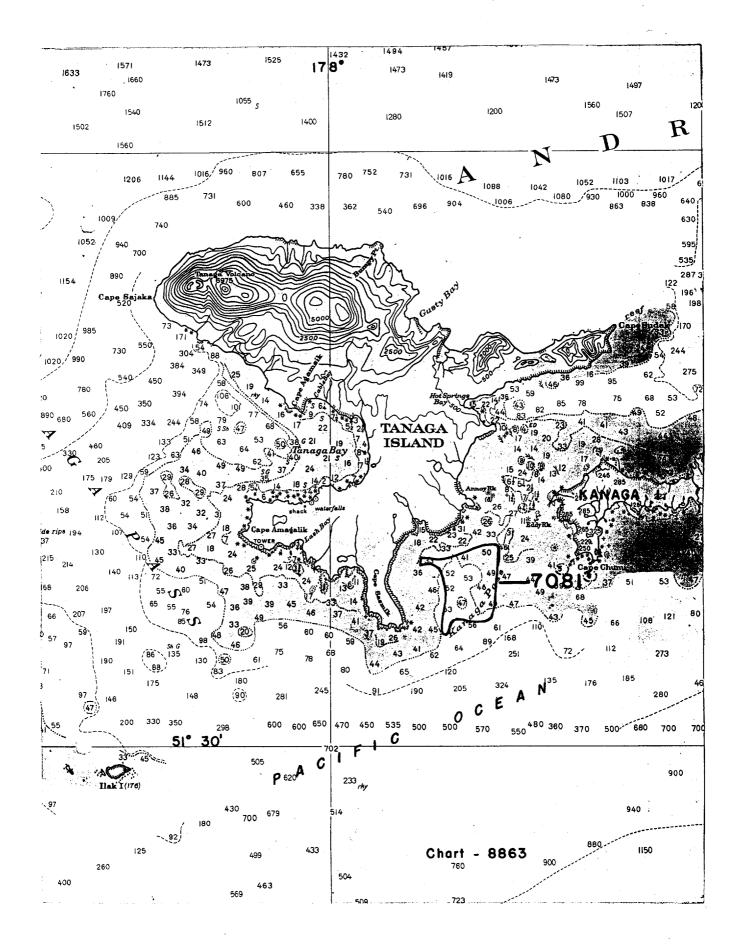
Chief. Nautical Chart Branch

E. R. McCarthy / Chief. Chart Division

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Chief, Hydrography Branch

Chief, Division of Coastal Surveys



NAUTICAL CHARTS BRANCH

SURVEY NO. __H7081

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
9-25-46	8863	D.H.B. 3.M.A.	Before After Verification and Review Examined for Critical addition to 50 fth cure
4 /- 10-		fam.	Before After Verification and Review Survey incomplete partially applied.
10/8/4/	. 7/46	0. 53,77.	Before After Verification and Review
4/19/48	9145	S.a. M. Saun	Before After Verification and Review
11-17-75	9145	Jor allus	Survey incomplete, partially applied. After Verification and Review Completely.
9/5/56	9146,	cm 4/32	Before After Verification and Review area
8863	12/1/58	JW.	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.