8284

Diag. Cht. Nos. 8502-2 and 8556-2-

Form 50

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. EX-05156 Office No. H-8284

LOCALITY

State Alaska

General locality Kodiak Island

Locality Womens Bay

194 .56

CHIEF OF PARTY

George A. Nelson

LIBRARY & ARCHIVES

DATE January 15, 1957

B-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-8284

Field No. EX-95156

State		ALA	SKA		
General locali	ty	KODIAK I	SLAND		
		WOMENS B			
Scale	1:5,000		D	ate of sur	vey 26 APRIL TO 3 MAY 1956
Instructions d	lated	13 FE	BRUARY	1956	
Vessel		SHIP	EXPLORE	R	
Chief of party	7 	CAPTAIN G	EORGE A	• NELSO	N
Surveyed by	LCDR JOHN	O. PHILLIP	S AND L	T EUGEN	E W. RICHARDS
Soundings tal	ken by Iarko	xetex , graphic	recorder	, hand le	ad, wixx
Fathograms s	caled by	FATHO	ÆTER R	EADERS	
Fathograms c	hecked by	SHIP	S OFFIC	ERS	
Protracted by	,	ALBER	I LARSE	N, JR	
Soundings pe	nciled by	ALBER'	T LARSE	N, JR	
Soundings in	Anthony	feet at	XXXX	MLLW	and are based on a velocity of sound of 800 fms/sec
REMARKS:					/
	,				

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8284

FIELD NO. EX-05156

ENTRANCE CHANNEL - WOMENS BAY

Project 1396 - 1956 Season

Scale: 1:5,000

Surveyed by: ICDR John O. Phillips and LT Eugene W. Richards

A. PROJECT:

This survey was accomplished in accordance with the Director's instructions dated 13 February 1956, Project 1396.

B. SURVEY LIMITS AND DATES:

This survey covers an area of the Entrance Channel, Womens Bay, Kodiak, Alaska. The coordinates which best describe the area are as follows:

Latitude 57° 43.36! Latitude 57° 43.60! Latitude 57° 43.71! Longitude 152° 29.30! Longitude 152° 29.45! Longitude 152° 28.60!

Latitude 57° 44.40! Latitude 57° 44.35! Latitude 57° 43.56! Longitude 152° 27.80! Longitude 152° 27.60! Longitude 152° 28.40!

This area was covered by the Coast Survey in 1950 at a scale of 1:5,000, survey H-7874.

This survey was made between 26 April and 3 May 1956.

C. SURVEY VESSEL AND EQUIPMENT:

The survey was accomplished by the launches No. 1 and No. 3 using 808 graphic recorders and supplemented by hand lead sounding. All launch hydrography was controlled by sextant fixes on topographic signals located entirely by graphic triangulation.

The launches operated from the Ship EXPLORER which was moored in Womens Bay.

The launches were operated at reduced speed as required by the scale of the survey

Fathometers used: Launch No. 1 - 808 fathometer, No. 49
Launch No. 3 - 808 fathometer, Nos. 136SP, 158SPX and
127S

All fathometers are calibrated for a velocity of 800 fms/sec.

D. TIDE AND CURRENT STATIONS:

The standard tide station at Womens Bay served as the basic-control station for this survey. No corrections were applied to the Womens Bay gage for the reduction of soundings for this survey. Hourly heights were furnished upon request.

E. SMOOTH SHEET:

The smooth sheet projection was constructed aboard the Ship EXPLORER by hand on a flat 31" x 33" sheet of Whatman paper.

Shoreline was transferred from the previous hydrographic survey H-7874 by means of tracings taken of a photostatic print.

(1950)

Review, #/

Triangulation stations were plotted from known G.P. and other hydrographic signals were pricked onto smooth sheet from tracings.

The transfer of shoreline and signals has been verified in accordance with Section 757 of the Hydrographic Manual.

F. CONTROL STATIONS:

Triangulation control was used as follows:

EWE, TRAP - USC&GS 1933; ABBERT - USC&GS 1939

Topographic stations were located from graphic control sheet No. Review, #/ EX-A-56.

G. SHORELINE AND TOPOGRAPHY:

The shoreline and foreshore detail was made from tracings of a photostatic copy of a previous hydrographic survey, H-7874. The only shoreline Review, changes within the limits of this survey are in the bight west of station RBBERT. Refer to Descriptive Report to Accompany Graphic Control Sheet No. EX-A-56.

H. SOUNDINGS:

Launch soundings were obtained from 808 graphic recorders supplemented by hand lead soundings in critical areas. Bottom samples were obtained with a snapper cup sampler.

All soundings have been check-scanned by ship's officers and corrected for tide, variation from initial setting, draft, and phase were necessary.

I. CONTROL OF HYDROGRAPHY:

All launch hydrography is controlled by visual fixes on shore signals.

J. ADEQUACY OF SURVEY:

This survey is adequate and should supersede all previous hydrographic surveys of this area.

K. CROSSLINES:

The crosslines constitute approximately 14% of all lines run. The crossings are excellent and the discrepancies are not in excess of what could be expected for this area.

L. COMPARISON WITH PRIOR SURVEYS: See Review, # 5

The area covered by this sheet was previously surveyed by the Coast Survey in 1950, H-7874, on a 1:5,000 scale. A newly dredged control depth of 30 feet is indicated in the channel area along with a dumping area with shoal conditions. (See paragraph N. DANGERS AND SHOALS.)

The use of this area as a dumping ground is the cause of the bumpy configuration of the depth curves in this immediate vicinity.

This survey should supersede the old survey. \sim

M. COMPARISON WITH CHART:

See Review, 76

The charted soundings are derived from survey No. H-7474. (See chart No. 8546, 3rd edition print, September 1947.) The new survey should supersede for the reasons cited in paragraph L above.

N. DANGERS AND SHOALS:

The following newly found shoal areas should be charted:

original reading on kelp see survey for least depths. 12

(1) Latitude 57° 44' 18" Longitude 152° 28' 04.5" - Least depth of t. - Pos. 89 - 90e, Launch No. 3, Vol. 5 of 5

15 (2) Latitude 57° 44' 33.75" Longitude 152° 27' 47.25" - Least depth #6A.

25 ft. - Pos. 131 - 132d, Launch No. 1, Vol. 2 of 5

These two shoal areas are located at the extreme ends of a "dumping area" strip. Approximately 15 minutes was spent in investigation of each shoal area.

O. COAST PILOT INFORMATION:

No significant changes have been noted.

P. AIDS TO NAVIGATION:

Fixed aids to navigation are covered in the descriptive report for graphic Control, No. EX-A-56.

(attached herein)

FLOATING AIDS

		į	Depth	Position	Date
Entrance Channel Bu		57 44.38 152 27.79	28	5a of vol. 3 of 5	4/26/56
St. Paul Entrance Lighted Bell Buoy	Let Iong		36	7 of a of vol. 3 of 5	H
St. Paul Entrance Lighted Bell Buoy	Let Long	57 44.54 152 27.05	emin malih	7a of a of vol. 3 of 5	lt:
Entrance Channel Bu		See Pos. 3a Vol. 3 of 5	19	6m of vol. 1 of 5/	No ∥
Entrance Channel Bu		57 43.87 V 152 28.31	18	3a of vol. 3 of 5	H
Entrance Channel Li Bell Buoy 17	ghted Lat Long	57 44.35 V 152 27.60	30 ·	6e of vol. 3 of 5	Ħ
Entrance Channel Li Bell 18	ighted Lati Long	See Pos. 5a/ Vol. 1 of 5	33	Is of vol. 3 of NF 5	C (II)
Entrance Channel Li Buoy 18	ghted Lat Long	57 43.71 V 152 28.60	32	5a of vol. 1 of 5	ented in
Entrance Channel Bu	oy 19 Lat Long	57 44.02 152 27.95	23	4a of vol. 3 of 5	u
Entrance Channel Lighted Bell Buoy	Lat 194 Long	57 43.81 / 152 28.19	43	2a of vol. 3 of 5	β "
Entrance Channel Lighted Bell Buoy	Lat 19A Lòng		43	7a of vol. 1 of 5	p m
Entrance Channel Bu	loy 21 Lat Long	57 43.61 V 152 28.56 V	34	4a of vol. 1 of 5	A i
Entrance Channel Bu	oy 23 Eat Long	57 43.01 152 29.11	34	3a of vol. 1 of 5	Ħ
Entrance Channel Li Buoy 25:	_	57 43.25 / 152 29.90 /	29	la of vol. 1 of 5	P H
Entrance Channel Li Buoy 25	ghted Lat Long	See Pos. La Vol. 1 of 5		2a of vol. 1 of 5	λ ² Π

Q. LANDMARKS FOR CHARTS:

See special report of landmarks for charts, previously submitted. 2386(1956)

R. GEOGRAPHIC NAMES:

There are no new geographic names for this area.

S. - Y. NOT APPLICABLE IN THIS REPORT

U. VELOCITY CORRECTIONS:

All echo sounding equipment used is calibrated for a velocity of 800 fms/sec.

The initial in launch No. 1 was set at 2.0 feet and in launch No. 3 at 0.0 feet. Any variation from this setting was applied as an initial correction.

Bar checks were taken at 12, 18 and 30 foot depths only to obtain an index or draft correction. These corrections are entered in the sounding volumes in the first column under "echo correction."

The 808 fathometer, No. 49, in launch No. 1 is the only fathometer used on this sheet in depths off the A scale. Phase corrections for this fathometer were obtained on 26 April 1956. Phase corrections are combined with index corrections and entered in the sounding record in the first column under "echo correction."

Tabulation of fathometer corrections applied to soundings:

fath corr.

Prob me

Fathometers

Index (Draft) Correction Phase Correction (B-A)

report submitted as per 6/1/59 +1.8 of Ex. 808 - 49 136SP 158SPX 0.0 +1.8 +1.0

(Total correction applied outside of initial variations)

Z. TABULATION OF APPLICABLE DATA:

- (I) Submitted with this report:
 - (a) 1 smooth sheet
 - (b) 2 boat sheets
 - (c) 5 volumes of sounding records
 - (d) 2 envelopes of fathograms
- (2) Submitted separately:
 - (a) I copy General Layout Sheet No. 9, dated I January 1955, Bp. 53688 Naval Station, Kodiak, Alaska - Forwarded 11 May 1956 C.L. 386(56)
 - (b) Season's report, Ship EXPLORER, Project 13960

Respectfully submitted,

albert Eurosen Jr. Albert Larsen, Jr. Ensign, C&GS

STATISTICS

HYDROGRAPHIC SURVEY H-8284

FIEID NO. EX-8284

SHIP EXPLORER

Project 13960

Vol. No.	Day: Ltr.	Date	No. Pos.	Hand Lead	Naut. Miles Sdg. Line	
		Laun	ch No. 1			
1	æ	4/26/56	92	0	7.2	
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L	c	4/28/56	35 5	0	3.0	
I	đ i.	5/2/56	124	16 (boffer	zetaruta \$ 0	
2	đ	5/2/56	33	0	2.5	
		Laun	ch No. 3			
3	8.	4/26/56	84	0	9•0	
3	ъ	4/27/56	120.	a	9•5	
4	ъ	4/27/56	38	Q)	3•4	
4.	* c	4/28/56	54	0;	4.8	
4	. đ	4/30/56	27	0.	2•3	
4	•	5/2/56	71	0	6.6	
5	•	5/2/56	63	0)	6.3	
5 ;	f	5/3/56	32	4 (sho=	1. fig. + 1011)2.6	
	TC	OTALS:	886	20	74.1	

AREA SURVEYED: 0.796 sq. naut. mi.

TIDAL NOTE

TO ACCOMPANY HYDROGRAPHIC SHEET EX-05156, Reg. No. H-8284

Tide reducers for the whole sheet were taken from the records of the Womens Bay standard gage, Kodiak, Alaska, with no correction for distance from the gage.

> Position of the gage: Latitude 540 43.71 N Longitude 1520 31.21 W

Hourly heights above MLLW were furnished by the Washing Office.

APPROVAL SHEET

The sheet and records for survey H-8284 have been examined and are approved.

George A Nelson
Captain, C&GS
Commending Ship EXPLORER

	GEOGRAPHIC NAMES Survey No. H-\$284			or or or or	S. May S.	e did	Tri Local Mode	O Guide of Ma	S MAN MENON MENON	S. Julius	
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* /	Zaimka Ista	2								.,	4
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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8284....

Records accompanying survey:								
Post sheets?; sounding vols; wire drag vols;								
bomb vols; graphic recorder rolls 5-Fnvelopes								
special reports, etcl-Descriptive report and 1-Smooth sheet.								
•••••••••••••••								
The following statistics will be submitted wirepher's report on the sheet:	ith the cartog-							
Number of positions on sheet	886							
Number of positions checked	174							
Number of positions revised	20							
Number of soundings revised (refers to depth only)	6							
Number of soundings erroneously spaced	52							
Number of signals erroneously plotted or transferred								
Topographic details	Time							
Junctions	Time							
Verification of soundings from graphic record	Time 10							
Verification by . T.P. SaulchurfTotal time	166 Date 5-1-57							
Reviewed by J. A. Dimomose Time	24. Dete/4 June 1957							

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. EX-A-56

REGISTER NO.

State	Alaska	
General Localit	ty Kodiak Island	
Locality Entra	nce to Womens Bay	
Scale 1:5,000	Date of survey April	, 19 56
Vessel	EXPIORER	
Chief of party	George & Nelson	
Surveyed by	Charles W. Clark	
Inked by	Albert Lersen	
Heights in fee	t above to ground to t	ops of trees
Contour, Approx	ximate contour, Form line interval	feet
Instructions da	ated 13 February	, 1956
Remarks: Gr	aphic control only.	
	GFO 266853	

Descriptive Report to accompany Graphic Control Sheet Field No. EX-A-56

Kodiak Island, Alaska Entrance to Womens Bay

Scale 1:5,000

April 1956

Ship EXPLORER, G.A. Nelson, Comdg.

INSTRUCTIONS

Instructions - Project 1396, Entrance Channel Womens Bay, Kodiak Island, Alaska, dated 13 February 1956.

PURPOSE

The purpose of this survey was to locate signals for control of hydrography in Womens Bay Entrance Channel. The survey is entirely graphic control.

CONTROL

All control is third-order triangulation established by the Coast and Geodetic Survey in 1939.

LIMITS

The sheet covers the shoreline on both sides of Womens Bay Entrance Channel where hydrography was required. The sheet was skewed about 30° so that the entire area could be covered by one sheet.

METHODS

All signals were located by graphic triangulation. There were no traverses. Planetable setups were made over stations ABBERT. ENGLISH and TRAP and at GAS (USN) after it was located from the first three stations. At least three cuts were obtained on all signals except BAG. BAG was visible from ENGLISH and TRAP only.

TOPOGRAPHY

The survey is entirely graphic control for location of hydrographic signals. No shoreline revision was accomplished. The only shoreline changes within the limits of this survey are in the bight west of station ABPERT. A crash-boat house, a boat basin and breakwaters have recently been constructed in this area. Signal GABE is the seaward (southeast) gable of the boat house. The entire project-boat house, breakwaters, etc.—is shown on General Layout Sheet No. 9, dated 1 January 1955, Naval Station, Kodiak, Alaska, forwarded the Washington Office in Package No. 24, 11 May 1956.

Bp. 53688 4386 (56)

Other signals in the water area are permanent objects as follows:

ACE - dolphin
BAG - rocky islet
DAW - rock
PEG - pile

Shoreline on the sheet was transferred from prints of a previous hydrographic survey.

AIDS TO NAVIGATION

There are no official fixed aids to navigation maintained by the Coast Guard within the limits of this survey. Front Range Mark and Rear Range Mark are entrance channel range daybeacons. These are apparently the same structures as former range lights. These daybeacons are not listed in the 1955 or 1956 Light Lists.

PLANE-TABLE POSITIONS

Object	Lati1	tude.	•	,	Longit	ude		
GAS (USN) (dim)	57	44	met 116.	ers 0(1740.2)	152	29	me t 652.	ers 7(340.2)
Front Range Mark (Daybeacon)	57	43	827	(1029)	152	28	7 09	(284)
Rear Range Mark (Daybeacon)	57	42	1774	(82)	152	29	269	(724)

Respectfully submitted,

Charles W. Clark Commander, C&GS

J.A. Diusmore June 1957

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8284

FIELD NO. EX-95156

Alaska, Kodiak Island, Womens Bay

Project No. CS-1396

Surveyed - April - May 1956

Scale 1:5,000

Soundings:

Control:

808 Depth Recorder

Sextant fixes on shore signals

Chief of Party - G. A. Nelson Surveyed by - J. O. Phillips and E. W. Richards Protracted by - A. Larsen, Jr. Soundings plotted by - A. Larsen, Jr. Verified and inked by - F. P. Saulsbury Reviewed by - T. A. Dinsmore 14 June 1957 Inspected by - R. H. Carstens

1. Shoreline and Signals

The shoreline originates principally with topographic surveys T-6695, T-6696 and T-1197 of 1939. Shoreline changes and additions shown in brown ink are from blueprint 53688 (U. S. Navy, 1955.).

The signals are from graphic control survey EX-A-56 which will be destroyed as all useful information has been transferred to the present survey smooth sheet.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated.

Intermittant shoals in the form of spoil banks flank the channel on the northwest. Except for some lumpiness, the bottom throughout the dredged channel is generally smooth.

4. Adjoining Surveys

No contemporary surveys adjoin the present survey. However, charted information from 1939 - 1950 surveys by this Bureau and various surveys by the U. S. Navy is in harmony with depths at the limits of the present survey.

5. Comparison with Prior Surveys

a. H-2929 (1907) 1:20,000

H-5440 (1933) 1:20,000

The prior surveys have been compared with and superseded by the 1939 surveys. Further consideration of the above surveys is therefore deemed unnecessary.

b. H-6479 (1939) 1:5,000

H-6481 (1939) 1:10,000

These prior surveys have been compared with and superseded by H-7874 (1950) through the channel area. The only significant area to be compared with the present survey is the spoil banks bordering the channel on the northwest. In this area, conspicuous examples of changes in bottom are shown in the following comparison:

Latitude	Longi tude	Prior depths	Present depths
57°43.88' 57°43.97' 57°44.14' 57°44.27' 57°44.35' 57°44.46' 57°44.66'	152° 28 .52' 152° 28 .14' 152° 28 .26' 152° 28 .09' 152° 28 .01' 152° 27 .89' 152° 27 .75'	12 14 22 24 24 26 27 26	3 7 9 12 15 14 15

The shoaler present depths are attributed to the disposal of spoil from the dredged channel.

c. H-7874 (1950) 1:5,000

Except for the area of spoil banks northwest of the channel, this prior survey generally covers the area of the present survey. Present survey depths are generally 1 to 3 ft. deeper than the prior depths through the dredged channel area. Present depths of 14 - 15 ft. in lat. 57°44.53', long. 152°27.79', supersede prior depths of 24 ft. This shoaling has resulted from spoil disposal. Except as noted, only minor differences of 1 - 2 ft. are found between the prior and present depths. In inshore areas of no bottom changes, two critical soundings have been retained from this prior survey. With these additions, the present survey is adequate to supersede the prior surveys of 1939 and 1950 within the common area.

d. H-6480WD (1939) 1:5,000

This wire-drag survey covers most of the present survey area. Numerous conflicts are found between the effective drag depths and present survey depths. The conflicts occur along the northwestern limit of the present survey where spoil banks have risen in recent years from spoil disposal from channel dredging. The prior clearance depths should be disregarded where they conflict with the shoaler depths on the present survey.

6. Comparison with Chart 8546 (Chartlet dated 2/9/57)

A. Hydrography

A small chartlet attached to chart 8546 covering the present survey area has been published as Notice to Mariners No. 6 (1957). The chartlet shows revised hydrography in the subject area based on partial application of the present survey prior to verification and review. Some of the charted information originates with the previously discussed prior surveys and with various prior surveys by the U. S. Navy.

The 6-ft. sounding charted in lat. 57°44.3', long. 152°28.08', and the 8-ft. sounding charted in lat. 57°44.56', long. 152°27.78', originate with kelp recordings on the fathograms' of the present survey. The erroneous soundings have been subsequently revised during verification of the present survey.

Attention is directed to the <u>pile</u> charted in lat. 57°44.35', long. 152°27.58'. Deletion of this pile from the chart was recommended in the review of H-7874 (1950).

The present survey entirely supersedes the charted information.

B. Aids to Navigation

The buoy charted in lat. 57°43.80', long. 152°28.23', was located about 40 meters northeastward on the present survey. The buoy charted in lat. 57°43.47', long. 152°29.29', was located about 200 meters northeastward on the present survey. The survey positions of channel buoys N-16 and C-19 fall in depths of 18 and 22 ft. respectively and do not adequately mark the edge of the 29-ft. channel. The charted positions adequately serve the purposes intended.

Except as noted, the aids to navigation located on the present survey are in substantial agreement with the charted aids and adequately mark the features intended.

C. Dredged Channel

The charted controlling depth of 29 ft., April 1956 originates with the present survey prior to verification and review. The charted information is correct.

7. Condition of Survey

- The sounding records are complete; the Descriptive Report covers all matters of importance.
- The smooth plotting was generally accurate. The verifier experienced difficulty in reading and identifying many of the position numbers inked with poor quality green ink on the smooth sheet. The practice of adding the day letter to every fifth position was not always followed by the smooth plotter. About 50 soundings were erroneously spaced, usually being plotted on a regular interval rather than at the correct uneven interval.

Compliance with Project Instructions 8.

The survey adequately complies with the Project Instructions.

Additional Field Work 9.

This is an adequate basic survey of the channel area and no additional field work is required.

Examined and Approved:

x G. Ricketts

Chief, Nautical Chart Branch

Charles A. Schanck

Chief. Division of Charts

Chief, Hydrography Branch

Chief, Division of Coastal Surveys

TIDE NOTE FOR HYDROGRAPHIC SHEET

29 January 1957

Division of Charts: R. H. Carstens

Plane of reference approved in 5 volumes of sounding records for

HYDROGRAPHIC SHEET 8284

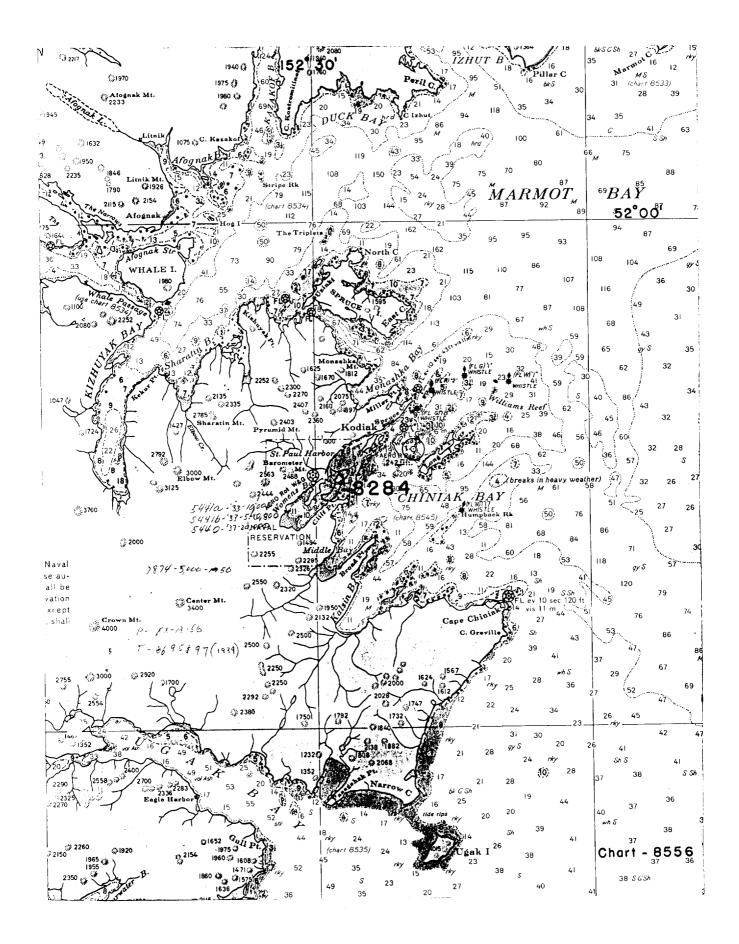
Locality Womens Bay, Alaska

Chief of Party: G. A. Nelson in 1956
Plane of reference is mean lower low water, reading 5.2 ft. on tide staff at Womens Bay 14.9 ft. below B. M. 4 (1949)

Height of mean high water above plane of reference if 7.9 feet.

Condition of records satisfactory except as noted below:

Millianshopno



NAUTICAL CHARTS BRANCH

SURVEY NO. H-8284

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1-11-57	8546	R.K. De Lander	Pattially applied - Before Attor Verification and Review
5.15-58	8546	R.K. De Sander	After Verification and Review
5-20-58	8545	R. K. ale Land	Refere After Verification and Review The Clf 5576
5/16/58	8534	PK Pe Couder per NWB	Before After Verification and Review (2 8546
1/24/62	8535	WW Burgogne	Reserve After Verification and Review Ch 8534
			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

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.