11094 11563
11571

11094 • 11563 • 11571

Original

Diag. Cht. No. 8859.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-40 *Office No.* T-11094, T-11563 and T-11571

LOCALITY

State Alaska

General locality Port Moller

Locality Herendeen Bay

1950

CHIEF OF PARTY

J. H. Brittain, Chief of Field Party
E. H. Kirsch, Baltimore Photo. Office

LIBRARY & ARCHIVES

DATE JUN 2 1958

COMM-DC 61300

DATA RECORD

T-11094, T-11563 and T-11571

Project No. (II): Ph-40 Quadrangle Name (IV):

Field Office (II): Portland, Oregon Chief of Party: J. H. Brittain

Photogrammetric Office (III): Baltimore, Maryland Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III):
Office: 12/16/52
11/29/54

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): MAR 28 1955 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 18 Sept 1957

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927 Vertical Datum (III): MHW

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): MARBLE, 1950

Lat.: 55° 47' 10.155 (314.1m) Long.: 160° 45' 14.308 (249.4m) Adjusted

Plane Coordinates (IV): State: Alaska Zone: UTM Zone 4

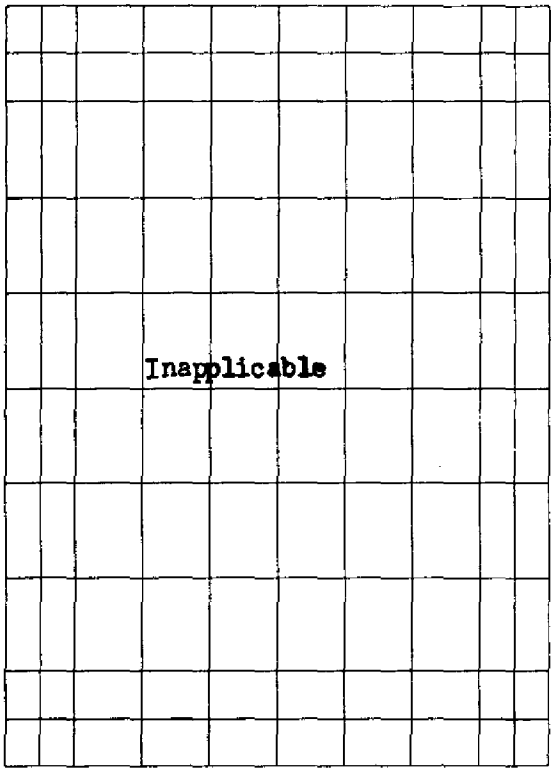
Y= X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

1

M-2618-12(4)



Areas contoured by various personnel
(Show name within area)
(II) (III)

DATA RECORD

Field Inspection by (II): I. Zirpel, Jr. Date: June - Sept. 1950

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): 1954, date of photography based on 1950 inspection on 1942 photography.
Southeast arm of Herendeen Bay from 1942 and 1943 photographs.

Projection and Grids ruled by (IV): S. Rose Date: 1/2/53
A. Riley 12/6/54
Projection and Grids checked by (IV): H. D. Wolfe Date: 1/2/53
A. Riley 12/6/54
Control plotted by (III): J. J. Schleupner Date: 12/20/54

Control checked by (III): H. R. Rudolph Date: 12/23/54

Radial Plot [redacted] Date: 2/17/55
[redacted] by (III): A. Queen

Stereoscopic Instrument compilation (III): Planimetry Date:
Contours Date:

Manuscript delineated by (III): J. B. Phillips Date: 2/16/53
B. Kurs 3/4/55

Photogrammetric Office Review by (III): R. Glaser Date: 3/15/55

Elevations on Manuscript checked by (II) (III): Date:

PHOTOGRAMMETRIC PLOT REPORT
Project Ph-40
Surveys T-11094, 11563 and 11571

21. AREA COVERED

This radial plot covers the areas of surveys T-11094, T-11563 and T-11571. These are shoreline surveys of Herendeen Bay near Port Moller, Alaska.

22. METHOD - RADIAL PLOT

Map Manuscripts:

Vinylite sheets, with polyconic projections in black and U.T.M., Alaska, grid in red, at a scale of 1:20,000, were furnished by the Washington office.

All control stations and substitute stations were plotted using the beam compass and meter bar.

A sketch, showing the layout of surveys, distribution of control, and photograph centers, is attached to this report.

Photographs:

The following eleven (11) nine-lens photographs, scale, 1:20,000 were used in this radial plot: 11271, 14197, 14199, 45931 thru 45934 and 45950 thru 45953.

Templets:

Vinylite templets were made from all 1954 photographs using a master templet to correct for errors due to film and paper distortion. Uncorrected templets were made from photographs 11271, 14197, and 14199.

Closure and Adjustment to Control:

The radial plot was constructed on vinylite base sheets on which all control points had been transferred from the map manuscripts.

The radial plot was started in survey T-11094 where there was adequate control and extended southwestward using both flights of 1954, photographs. The uncorrected templets were then adjusted. The northern portion of the plot presented no difficulties. The uncorrected templets made considerable adjustment necessary in the southeast portion of the plot along the junction between surveys T-11563 and T-11571. Unadjusted templets of photographs 11271, 14197, and 14199 were fixed by holding to pass points established from the 1954 photographs. Positions of additional pass points established were checked using the photographs and orienting chamber by chamber. This method produced a satisfactory plot which held all control.

Transfer of Points:

The map manuscripts were laid over the completed radial plot and after adjusting to control all photogrammetric points were pricked on the manuscripts.

23. ADEQUACY OF CONTROL

The control identified was adequate for obtaining a satisfactory radial plot.

24. SUPPLEMENTAL DATA

No supplemental data was used in the radial plot.

25. PHOTOGRAPHY

The photographic coverage was adequate for all surveys of this radial plot. Three (3) photographs were used that had no fiducial marks. There was no master templet to correct for errors due to paper and film distortion of these photographs.

Photograph 45952 was tilted, but no tilt determination was necessary.

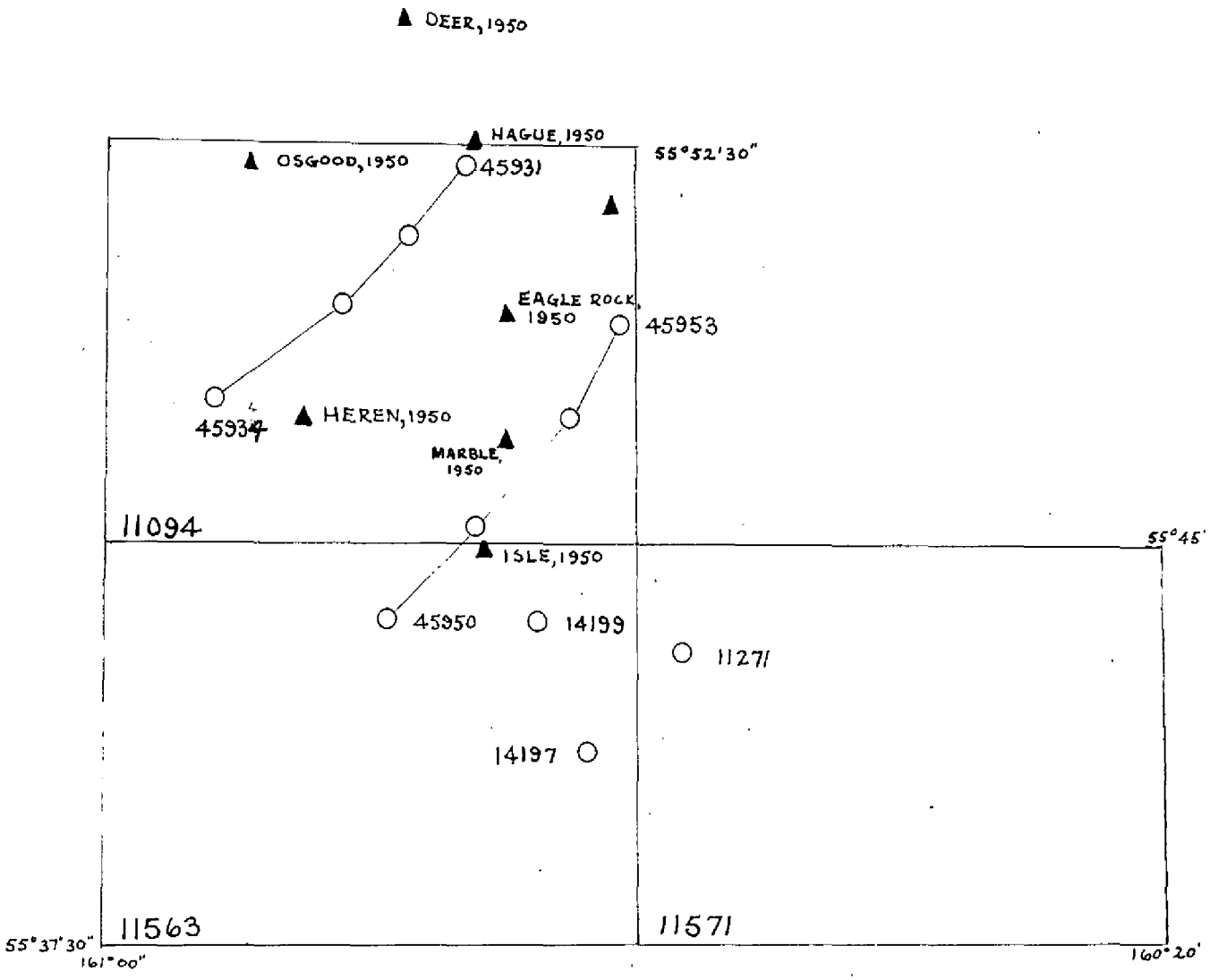
Respectfully submitted
25 February 1955

Albert Queen, Jr.
Carto. Photo. Aid

LAYOUT SKETCH

PROJECT - PH 40

SURVEYS - 11094, 11563 & 11571



○ Nine lens office photographs

▲ Control stations (identified)

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T. 11094 PROJECT NO. Ph-40 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR μ-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
HEREN, 1950	G-10049 p. 287	N.A. 1927	55 47 05.437			168.2 (1687.5)	
			160 52 19.319			336.7 (709.0)	
Sub. Pt. "A" HEREN, 1950	Comp.	"	55 47			208.1 (1647.6)	
			160 52			382.2 (663.5)	
Sub. Pt. "B" HEREN, 1950	"	"	55 47			277.3 (1578.4)	
			160 52			337.6 (708.1)	
MARBLE, 1950	G-10049 p. 287	"	55 47 10.155			314.1 (1541.6)	
			160 45 14.308			249.4 (796.3)	
Sub. Pt. "A" MARBLE, 1950	Comp.	"	55 47			377.0 (1478.7)	
			160 45			210.1 (835.6)	
Sub. Pt. "B" MARBLE, 1950	"	"	55 47			285.2 (1570.5)	
			160 45			217.1 (828.6)	
EAGLE ROCK, 1950	G-10049 p. 289	"	55 49 30.502			943.4 (912.3)	
			160 45 36.953			643.4 (401.2)	
SHARON, 1950	G-10049 p. 289	"	55 51 44.490			1376.0 (479.7)	
			160 40 55.023			957.1 (86.5)	
Sub. Pt. "A" SHARON, 1950	Comp.	"	55 51			1347.8 (507.9)	
			160 40			923.5 (120.1)	
Sub. Pt. "B" SHARON, 1950	"	"	55 51			1353.6 (502.1	
			160 40			976.6 (67.0)	
∞							

1 FT. = 3048006 METER

COMM-DC-57843

COMPUTED BY: J. Steinberg DATE 2/3/55 CHECKED BY: G. E. Varnadoe DATE 2/4/55

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T-11563 PROJECT NO. Ph-40 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
ISLE, 1950	G-10049 p. 288	N.A. 1927	55 44 52.844			1634.3 (221.3)	
			160 46 46.184			805.7 (241.0)	

1 FT. = 3048006 METER

COMPUTED BY: J. Steinberg DATE 12/14/54 CHECKED BY: H. R. Rudolph DATE 12/16/54

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-11571 PROJECT NO. Ph-40 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
MUD, 1950	G-10049 p. 280	N.A. 1927	55 43 12.512				387.0	(1468.6)		
			160 25 56.849				992.4	(55.0)		
Sub. Pt. MUD, 1950	Comp.	"	55 43				390.1	(1465.5)		
			160 25				987.8	(59.6)		
V-16, 1950	G-10049 p. 289	"	55 43 45.26				1399.8	(455.8)		
			160 22 42.78				746.7	(300.5)		

1 FT. = .3048006 METER

COMPUTED BY: J. Steinberg DATE 12/14/54 CHECKED BY: H. R. Rudolph DATE 12/23/54

COMM-DC-57843

COMPILATION REPORT
Project Ph-40
Surveys T-11094,
T-11563 & T-11571

A 1953 Descriptive Report is available for delineation done that year.

For the field report, refer to Project Report, Aerial Photograph Control and Inspection, North Shore, Alaska Peninsula, Project Ph-40 (49), June - September, 1950.

31. DELINEATION

Graphic methods were used to delineate the map manuscripts.

The 1955 work comprises all shoreline and offshore details from 1 mile south of HAGUE, 1950 to one and one-half miles south of OSGOOD, 1950 on T-11094 and all of T-11563 and T-11571.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours: not applicable.
Drainage: not comment.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

The MHWL was delineated in the field on 1942-43 nine-lens photos. This information was utilized to delineate the MHWL on 1954 nine-lens photos. An approximate low water line was delineated using the latest low water photos available. No MLLW lines were furnished by the field party.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

A Form 567 is being submitted for eight landmarks recommended by the field party.

37. LANDMARKS AND AIDS (cont'd)

38. CONTROL FOR FUTURE SURVEYS

See paragraph No. 49 for a list of recoverable Topographic Stations and Hydrographic Stations in the area.

Form 524 for station MINE, 1954 was prepared by the field party. Form 524 is submitted for OZGOOD AZ. MK., 1950.

39. JUNCTIONS

Junctions are in agreement between these manuscripts. In addition junction for T-11094 was made with T-11092 to the north and T-11093 to the west. There were no other junctions to be made.

Survey T-11571 overlaps survey T-8837 (Ph-111). However, only the shoreline of Herendeen Bay is required at this time.

40. HORIZONTAL AND VERTICAL ACCURACY

See Photogrammetric Plot Report.

41. - 45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

None available in the office at the time of compilation.

47. COMPARISON WITH NAUTICAL CHARTS

These manuscripts have been compared with Nautical Chart No. 8833, 1:79, 798 published Feb. 1917, and corrected to 6/11/54.

Items to be applied to Nautical Charts immediately: None.

Items to be carried forward: None.

Respectfully Submitted
8 March 1955
B. Kurs

B. Kurs,
Carto. Photo. Aid

Approved and Forwarded
E. H. Kirsch.

E. H. Kirsch, Comdr. USC&GS
Officer in Charge
Baltimore Photo. Office

48. GEOGRAPHIC NAMES LIST

T-11094

Acorn Rock
Alaska Peninsula

Black Point
Bluff Point
Bold Bluff Point
Bold Bluff Reef

Coal Bluff
Coal Creek
Coal Point
Coal Valley
Crow Point
Crow Reef

Eagle Rock

Gull Island

Halftide Rock
Herendeen Bay

Johnston Channel

Low Point
Lynden Creek

Marble Point
Middle Point (Field Photo. 11242)
Midway Reef (From Coast Pilot)
Mine Harbor
Mud Bay

Point Divide

* Shingle Point (Known locally as Shingle Spit)

Village Spit

Names approved
5-2-57
a d W

T-11563

Alaska Peninsula

Bold Bluff Point
Buck Valley

Deer Valley

* Gravel Point (Known locally as Gravel Spit)
Gull Point

Herendeen Bay

Portage ~~Valley~~ Creek

Names approved
5-2-57
a d W

48. GEOGRAPHIC NAMES LIST (cont'd)

T-11571

Alaska Peninsula

Grass Valley

Lawrence Valley

Names approved
5-2-57
AGW

* See pages 44 and 45 of Project Report, Aerial Photograph Control and Inspection N. Shore, Alaska Peninsula, Ph-40(49), June - Sept. 1950.

49. NOTES FOR HYDROGRAPHER

The following are the recoverable topographic stations established:

T-11094

MINE, 1950
OSGOOD AZ. MK., 1950

The following are the hydrographic stations located on the manuscripts:

T-11094

218 Cabin; SW Gable of Cabin.
219 Cabin; S Gable of main cabin in group of Small Bldgs.
225 Cabin; S Gable of 2nd building E. of Low Point.

T-11563

220 Cabin; NW Gable of cabin.
221 Cannery; NE Gable of N'erly building on Pier.
222 Cannery; NE Gable of S'erly building on Pier.
223 W gable of lone cabin.

T-11571

224 Cabin; S. Gable of 2nd building E of low point.

The character of the foreshore areas adjacent to the MHWL has been designated where available from the field inspection. In most cases the limits of the areas were not delineated because of extensive mud flats which bare at MLLW.

Pass points have been selected every 3 inches along shoreline to facilitate the location of photo hydro stations, and in compliance with project instructions.

17 March 1955
Form T-2

D.

PHOTOGRAMMETRIC OFFICE REVIEW

T-11094, T-11563 & T-11571

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

4a. Classification label ✓

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ✓ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ✓ 7. Photo hydro stations ✓ ~~8. Bench marks~~ ~~9. Plotting of sextant fixes~~ 10. Photogrammetric plot report ✓ 11. Detail points ✓

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line ✓ 14. Rocks, shoals, etc. ✓ ~~15. Bridges~~ ~~16. Aids to navigation~~ 17. Landmarks ✓ 18. Other alongshore physical features ✓ 19. Other alongshore cultural features ✓

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover ✓ ~~22. Planetable contours~~ ~~23. Stereoscopic instrument contours~~ ~~24. Contours in general~~ ~~25. Spot elevations~~ ~~26. Other physical features~~

CULTURAL FEATURES

~~27. Roads~~ 28. Buildings ✓ ~~29. Railroads~~ ~~30. Other cultural features~~

BOUNDARIES

~~31. Boundary lines~~ ~~32. Public land lines~~

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ ~~36. Discrepancy overlay~~ 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓

40. L. Glaser
Reviewer

Joseph Steinberg
Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. *Remarks:*

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED / ~~TO BE DELETED~~ (STRIKE OUT ONE)

Baltimore, Maryland 7 March 19 55

I recommend that the following objects which ~~have~~ *(have not)* been inspected from seaward to determine their value as landmarks be charted on (~~delete~~) the charts indicated.

The positions given have been checked after listing by R. Glaser

E. H. Kirsch *Chief of Party.*

STATE ALASKA

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	″ D.M. METERS	POSITION LONGITUDE* ° ′	″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY Radial	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
Cabin	S.W. Gable of Cabin	Hydro 218	55 51	47.04 1455	160 56	35.07 610	N.A. 1927	Plot T-11094	1950	x			8833
Cabin	S. Gable of main Cabin in a group of small bldgs.	219	55 47	46.75 1446	160 53	20.20 352	"	"	"	x			"
Cabin	N. W. Gable of Cabin	220	55 44	08.15 252	160 48	13.30 232	"	T-11563	"	x			"
Cannery	N.E. Gable of N'erly Bldg. on Pier	221	55 44	42.39 1311	160 43	26.65 465	"	"	"	x			"
Cannery	N.E. Gable of S'erly bldg. on Pier	222	55 42	51.19 1583	160 41	35.11 613	"	"	"	x			"
Cabin	W. Gable of lone cabin	223	55 42	56.03 1733	160 40	08.65 151	"	"	"	x			"
Cabin	S.W. Gable of main cabin in group of small buildings	224	55 44	26.61 823	160 39	01.26 22	"	T-11571	"	x			"
Cabin	S. Gable of second bldg. E. of Low Point	225	55 46	09.70 300	160 41	55.46 967	"	T-11094	"	x			"

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

Review Report of Shoreline Surveys
T-11091, 11092, 11094, 11095, 11096, 9573, 11563, 11571
(see accompanying Index with T-11091)
May 1957

62. Comparison with Registered Topographic Surveys

T-3089 1:20000 1910

Shoreline and foreshore features have changed considerably since this survey of 1910 and is superceded by T-9573 of common areas for Nautical charting purposes.

63. Comparison with Maps of Other Agencies:

PORT MOLLER, ALASKA 1:250000 1953 U.S. Geological Survey. Agreement is as good as scale differences permit.

64. Comparison with Contemporary Hydrographic Surveys:

H-8224	1:20000	1955
H-8225	1:20000	1955
H-8226	1:20000	1955
H-8227	1:20000	1955
H-8228	1:20000	1955

Subject Shoreline Surveys furnished shoreline, foreshore and offshore detailing for afore-mentioned hydrographic surveys prior to review. Only limits of shallow and shoal limits were altered in some instances to fit the hydrographic information. A few additions and changes were applied to the shoreline manuscripts during review; however, these did not interfere with corresponding hydrographic surveys or were resolved.

65. Comparison with Nautical Charts:

8833 1:80000 1956 (30 April)

For the fifth Edition of this nautical chart subject shoreline manuscripts were used in it's recompilation and there is complete agreement except for scale.

66. Adequacy of Results and Future Surveys:

Control and Field Inspection for these shoreline surveys are adequate also for nautical chart purposes. No inaccuracies were indicated.

Reviewed by:

Josef J. Streifler

Josef J. Streifler

Reviewed by: (cont.)

Chief, Nautical Chart Branch

Chief, Coastal Surveys

APPROVED:

Chief, Review and Drafting Section, Photogrammetry Division

Chief, Photogrammetry Division

Summary to accompany Shoreline Surveys
T-11091, 11092, 11094, 11095, 11096, 9573, 11563, 11571

These eight shoreline surveys are in the vicinity of Port Moller, Bristol Bay, Alaska, and represent the southernmost portion of Project 25020—Fh 40—(below 56° of latitude). The accompanying index shows with T-11091 the subject shoreline surveys also in relation to adjoining Project 27160. Limits of T-11096 and T-11571 were changed with effected sheets of Project 27160 to form common junctions. A small portion of shoreline and adjacent marsh area in the northeast corner of T-11093 represented all detailing on that manuscript. This information was transferred to T-11094 and T-11093 has been dropped.

Final "Cronar" film positives of these manuscripts as well as the descriptive report will be filed in the Bureau Archives.