

11094 11563
11571

original

Diag. Cht. No. 8859.

Form 604

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)
T-11094, T-11563
Field No. Ph-40 Office No. 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

11094 • 11563
11571

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 (S) 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 (249.1m)**

Adjusted

~~coordinates~~

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.

Inapplicable

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**
A. Riley
 Projection and Grids checked by (IV): **H. D. Wolfe**
A. Riley
 Control plotted by (III): **J. J. Schleupner**

Date: **1/2/53**
12/6/54
 Date: **1/2/53**
12/6/54
 Date: **12/20/54**

Control checked by (III): **H. R. Rudolph**

Date: **12/23/54**

Radial Plot ~~not stereoscopic~~
~~Control checked~~ by (III): **A. Queen**

Date: **2/17/55**

Planimetry
 Stereoscopic Instrument compilation (III):
 Contours

Date:

Date:

Manuscript delineated by (III): **J. B. Phillips**
B. Kurs

Date: **2/16/53**
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

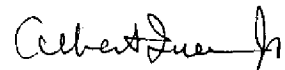
No supplemental data was used in the radial plot.

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

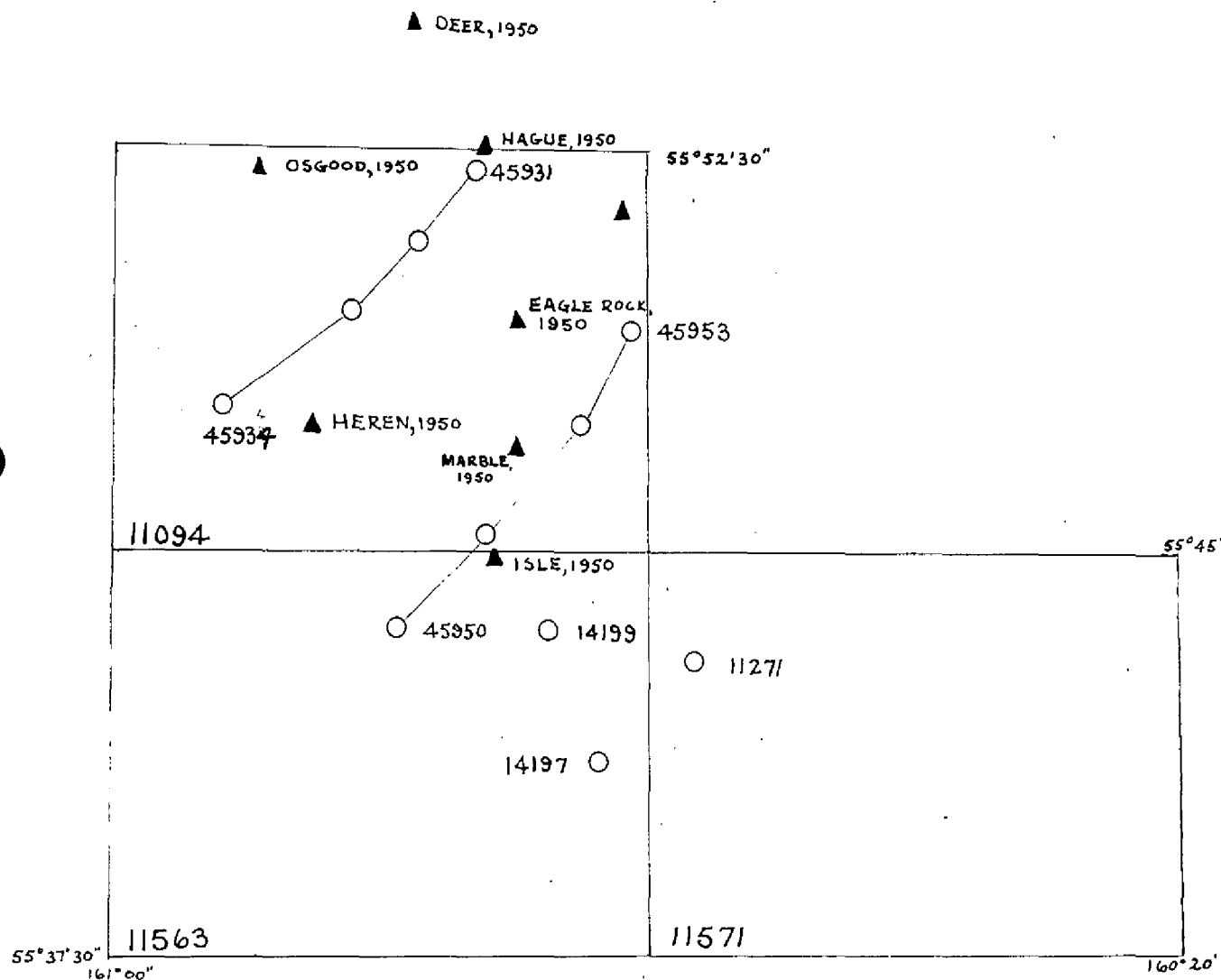


Albert Queen, Jr.
Carto. Photo. Aid

LAYOUT SKETCH

PROJECT - PH 40

SURVEYS - 11094, 11563 & 11571



- Nine lens office photographs
- ▲ Control stations (identified)

MAP T. 11094

PROJECT NO. Ph-40

SCALE OF MAP 1:20,000

SCALE FACTOR

[illegible]

1 FT. = 3048006 METER
COMPUTED BY: J.

TER
J. Steinberg

DATE 2/3/55

CHECKED BY: **G. E. Varnadoe**

DATE 2/4/55

COMM-DC-57843

SCALE FACTOR

9

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.

Approved and Forwarded

E. H. Kirsch

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

Respectfully Submitted
8 March 1955

B. Kurs

B. Kurs,
Carto. Photo. Aid

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

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 g w*

*Names approved
5-2-57
a g 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.

Surveys T-11094,
T-11563 & T-11571

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

PHOTOGRAMMETRIC OFFICE REVIEW

T-11094, T-11563 & T-11571

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

6a. 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 along-shore 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. J. Glasu Joseph Steinberg
Reviewer 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:

M-2623-12 15

TO BE CHARTED } STRIKE OUT ONE

Baltimore, Maryland
7 March
10 55

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

The positions given have been checked after listing by

E. H. Kirsch
Chief of Party.

[illegible]

11.03 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 superseded by T-973 of common areas for Nautical charting purposes. *9573*

63. Comparison with Maps of Other Agencies:

PORT MELLER, 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 off-shore 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:

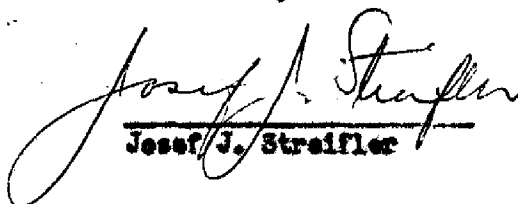
5833 1:80000 1956 (30 April)

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

~~Reviewed by:~~ (cont.)

APPROVED:

Max K. Kelly
Chief, Nautical Chart Branch

L. C. Lande
Chief, Review and Drafting
Section, Photogrammetry Division

R. D. Smith
Chief, Coastal Surveys

Hubert Bull
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—Ph 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.