11095 11096

11096. 11095

Diag. Cht. No. 8859.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey Shoreline (photogrammetric)

Field No. Ph-40 Office No. T-11095 T-11096

LOCALITY

State Alaska

General locality Port Moller

Locality Mud Bay, Right Head & Left Head

1942-50

CHIEF OF PARTY

J.H.Brittain, Chief of Field Party

~~E.H.Kirsch, Baltimore Photo. Office~~

LIBRARY & ARCHIVES

DATE May 15, 1958

B-1870-1 (1)

# DATA RECORD

T-11095 and
T-11096

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

Field Office (II): 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): JERK, 1950

Lat.: 55° 48' 30.927" (956.5m) Long. 160° 24' 51.816" (902.5m) Adjusted
~~Unadjusted~~

Plane Coordinates (IV): State: Zone: U.T.M. - 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.

Not applicable.

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

FORM 181b
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT - DATA RECORD

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

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): 1950 field inspection on 1942 photography. Office interpretation on 1953 photos in Left Head.

Projection and Grids ruled by (IV): A. Riley Date: 3/30/54

Projection and Grids checked by (IV): A. Riley Date: 4/7/54

Control plotted by (III): J. J. Schleupner Date: 12/21/54

Control checked by (III): J. Steinberg Date: 12/22/54

Radial Plot [redacted]c L. A. Senasack Date: 2/7/55
Control extension by (III):

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

Manuscript delineated by (III): R. Whitson Date: 2/16/53
J. B. Phillips 2/18/55

Photogrammetric Office Review by (III): R. Glaser Date: 2/23/55

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

COMM-DC-57842

Camera (kind or source) (III): USC&GS nine-lens camera
U. S. Navy single lens camera

PHOTOGRAPHS (III)

| Number | Date | Time | Scale | Stage of Tide | | |
|---|---|---|---|---|---|---|
| 4-1-0084 - 0088 | 6/22/53 ✓ | 1335 | 1:20,000 | 2.0 | above | MLW |
| 11211 & 11212 | 9/14/42 ✓ | 1010 | " | 7.0 | " | " |
| 11236 - 11239 | " | 1039 | " | 7.7 | " | " |
| 11240 - 11242 | " | 1046 | " | 7.7 | " | " |
| 11223 - 11228 | " | 1024 | " | 7.3 | " | " |
| 11198 - 11202 | " | 955 | " | 6.2 | " | " |
| 38469 | 7/23/52 ✓ | 1720 | " | 1.9 | " | " |

Tide (III)
From predicted tables

| | Ratio of Ranges | Mean Range | Diurnal Range |
|---|---|---|---|
| Reference Station: Nushagak Bay | | 15.2 | 19.5 |
| Subordinate Station: Port Moller (Entrance Pt.) | 0.5 | 7.5 | 10.6 |
| Subordinate Station: | | | |

Washington Office Review by (IV): Date:

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 23 sq. mi.
Shoreline (More than 200 meters to opposite shore) (III): 44 miles
Shoreline (Less than 200 meters to opposite shore) (III): 1 mile
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): none Recovered: Identified: 3*
Number of BMs searched for (II): none Recovered: Identified:
Number of Recoverable Photo Stations established (III): 4
Number of Temporary Photo Hydro Stations established (III): none

Remarks:
*3 stations established in 1950.

PHOTOGRAMMETRIC PLOT REPORT
Project Ph-40
Surveys T-11095, T-11096 and T-11571

21. AREA COVERED

This radial plot covers the area of surveys T-11095, T-11096 and T-11571. These are shoreline surveys that include the southeast arm of the bay on the north shore of the Alaska Peninsula known as Port Moller.

22. METHOD - RADIAL PLOT

Map manuscripts:

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

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

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

Photographs:

A total of twelve (12) nine-lens photographs, at a scale of 1:20,000 were used in this plot and are numbered as follows:

11198, 11200, 11202 and 11204
11212, 11223, 11225 and 11228
11236, 11237, 11239 and 11241

Templets:

Vinylite templets were made of all 1942 photographs. There is no master templet for these photographs.

Closure and Adjustment to Control:

Vinylite sheets with 2,000 meter grids were used as base sheets. All identified control was transferred to the base sheets by matching common grid lines. Pass points at the north end, established in a previous plot, were also transferred.

The radial plot was started with the western flight and extended eastward. While laying the plot sub pt. for JERK, 1950 could not be held. The photographs were studied with the aid of the stereoscope and another point was pricked and held in the plot.

Transfer of points:

The positions of all photogrammetric points were pricked directly on the map manuscripts by superimposing the manuscript on the completed plot and matching common grid lines.

23. ADEQUACY OF CONTROL

The density and distribution of control was adequate for a normal radial plot for shoreline compilation. The radial plot in the area around control stations HEAD, V-16 and MUD is considered weak because of the unadjusted and tilted photographs.

V-16, 1950 - No radially plotted position is shown on the map manuscript because of the weak geographic position and also unadjusted and tilted photographs.

MUD, 1950 - There is only one sub. pt. for this station and that point is a weak point to identify. It is on a rounded projection of the ridge of mountain.

24. SUPPLEMENTARY DATA

No supplementary data was used in this radial plot.

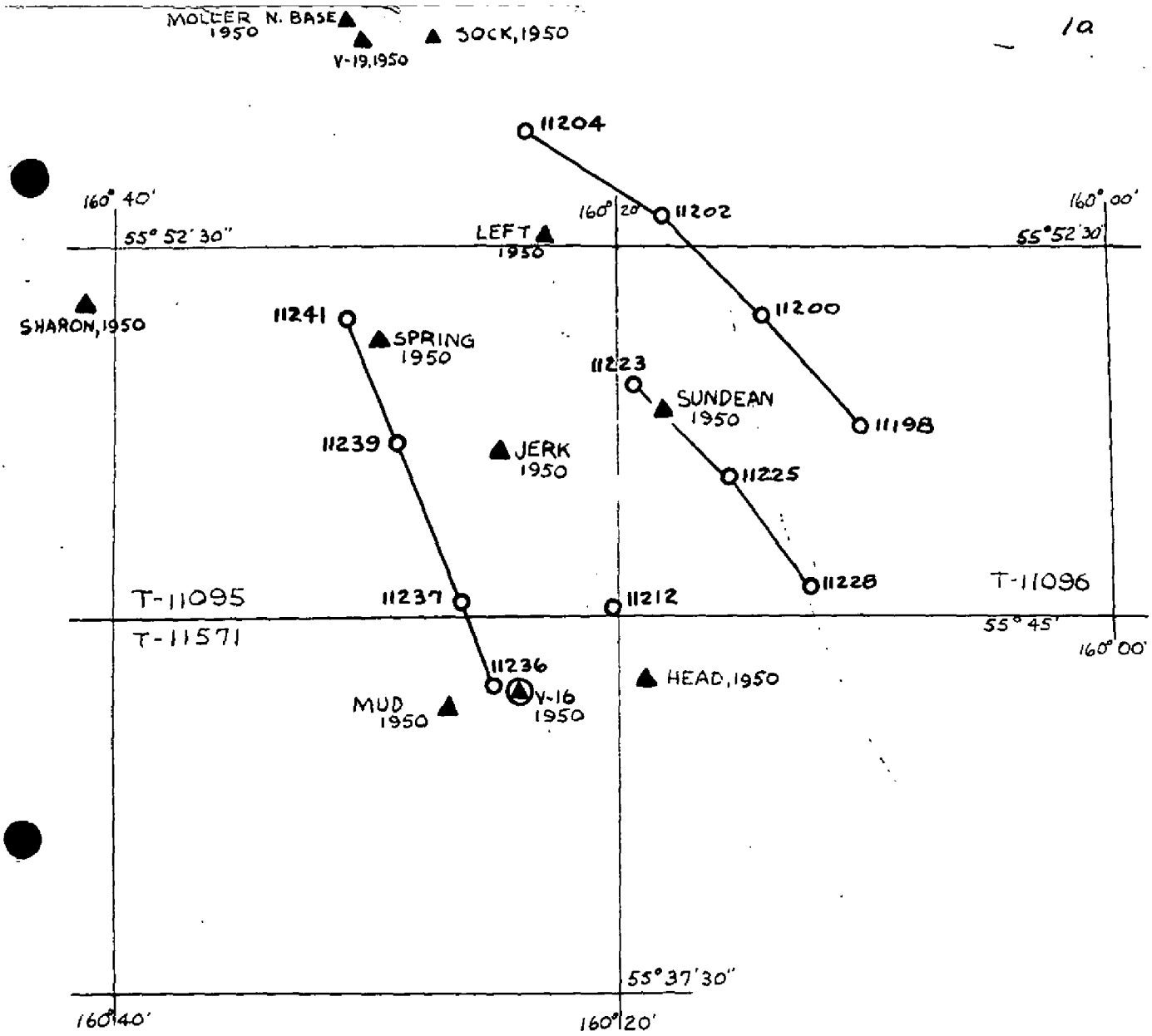
25. PHOTOGRAPHY

Photographic coverage was adequate, and definition was good, but all photographs were unadjustable and in many cases the outside chambers did not match the center chamber. There was either a double image or an area missing between chambers.

Respectfully submitted
23 February 1955

Leroy A. Senasack

Leroy A. Senasack
Carto. Photo. Aid




LAYOUT SKETCH
Project PH-40
Surveys T-11095, T-11096 & T-11571

○ Nine lens photographs
▲ Control stations (Identified)
Ⓐ Control stations (Not held in plot)

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 11095 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRING, 1950 | G-10049 p. 280 | N.A. 1927 | 55 | 51 | 12.074 | | | | 373.4 | (1482.3) | | |
| | | | 160 | 29 | 58.259 | | | | 1013.6 | ( 30.2) | | |
| Sub. Pt. "A" SPRING, 1950 | Comp. | " | 55 | 51 | | | | | 390.2 | (1465.5) | | |
| | | | 160 | 30 | | | | | 0.5 | (1043.3) | | |
| Sub. Pt. "B" SPRING, 1950 | " | " | 55 | 51 | | | | | 378.3 | (1477.4) | | |
| | | | 160 | 29 | | | | | 1018.0 | ( 25.8) | | |
| JERK, 1950 | G-10049 p. 288 | " | 55 | 48 | 30.927 | | | | 956.5 | ( 899.2) | | |
| | | | 160 | 24 | 51.816 | | | | 902.5 | ( 142.5) | | |
| Sub. Pt. JERK, 1950 | Comp. | " | 55 | 48 | | | | | 977.2 | ( 878.5) | | |
| | | | 160 | 24 | | | | | 856.4 | ( 188.6) | | |

∞

1 FT. = .3048006 METER

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

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-11096 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) |
|---|---|---|---|---|---|---|---|
| SUNDEAN, 1950 | G-10049 p. 280 | N.A. 1927 | 55 49 09.428 | | | 291.6 (1564.1) | |
| | | | 160 18 56.869 | | | 990.3 ( 54.5) | |
| Sub. Pt. "A" SUNDEAN, 1950 | Comp. | " | 55 49 | | | 298.1 (1557.6) | |
| | | | 160 18 | | | 985.0 ( 59.8) | |
| Sub. Pt. "B" SUNDEAN, 1950 | " | " | 55 49 | | | 275.6 (1580.1) | |
| | | | 160 18 | | | 987.7 ( 57.1) | |

1 FT. = .3048006 METER

COMM-DC-57843

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

COMPILATION REPORT
Project Ph-40
Survey T-11095 and T-11096

A 1953 Descriptive Report is available for delineation in the vicinity of Port Moller done previously to 1955.

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 these manuscripts.

The 1955 work comprises all delineation southeast of topographic station BOLD, 1950 on T-9573, T-11096 in its entirety, and compilation southeast of SPRING AZ MK on T-11095.

The MLLWL on these sheets is incomplete, due to insufficient coverage by low water photography.

32. CONTROL

Refer to Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA -

None.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable

Drainage: No comment

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate. The MHW line was delineated where possible from the most recent photographs, based on field information on the nine-lens photographs dated 1942-43.

Except for some description in the field report, no low water line was furnished. An approximate low water line was delineated by office interpretation on the most recent photographs having the lowest computed tides.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

See paragraph No. 49 for the list of recoverable topographic stations within the area.

Forms 524 for recoverable topographic stations CONE, 1950 (T-11095); PORT, 1950 (T-11096); and HOLE, 1950 (T-11096) have been prepared by the field party.

Form 524 is submitted for one azimuth mark, SPRING AZ MK, 1950.

39. JUNCTIONS

Junction is in agreement between these sheets (T-11095 and T-11096). Also, junction has been made and is in agreement with the following:

T-11095
To the north with T-9573.
To the west with T-11094.
To the south, Survey T-11571 requires no junction.

T-11096
To the west with T-11095.
To the north, east and south no junction is required. This survey overlaps the limits of Surveys T-8834 and T-8835 (Ph-111), but only shoreline in Port Moller area is required at this time.

40. HORIZONTAL AND VERTICAL ACCURACY

See Photogrammetric Plot Report.

41 - 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

None were available at this office.

47. COMPARISON WITH NAUTICAL CHARTS

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

Items to be applied to Nautical Charts immediately:

None.

Items to be carried forward:

None.

Respectfully submitted
21 February 1955

Jacqueline B. Phillips

Jacqueline B. Phillips,
Carto. Photo. Aid

Approved and forwarded

E. H. Kirsch

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

48. GEOGRAPHIC NAME LIST

T-11095

Alaska Peninsula

Hot Spring

Mud Bay

Port Moller

* Right Head (Known locally as Frying Pan).

Names approved 5-2-57 aJW

T-11096

Alaska Peninsula

Frying Pan

* Left Head (Known locally as Mike Mundsen Bay)

* Right Head (Known locally as Frying Pan)

* See page 42 of Project Report, Aerial Photograph Control and Inspection North Shore, Alaska Peninsula, Project Ph-40(49), June - September 1950.

49. NOTES FOR THE HYDROGRAPHER

The following are the recoverable topographic stations established:

T-11095: CONE, 1950

SPRING AZ MK, 1950

T-11096: PORT, 1950

HOLE, 1950

The character of the foreshore area adjacent to the MHWL has been designated where available from the field inspection notes. However, the limits of the areas have not been delineated due to the extensive areas of mud flats which bare at MLLW. The approximate limits of the Mud Flats have been given where low water photographs were available.

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

2-23-55

Form T-2

50 -

# PHOTOGRAMMETRIC OFFICE REVIEW

T-11095 & T-11096

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. R. Glass — 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:

M-2623-12

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-~~923~~ 9573 of common areas for Nautical charting purposes.

63. Comparison with Maps of Other Agencies:

~~MOUNT~~ MILLER, 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:

Joseph J. Streifler

Joseph J. Streifler

~~Reviewed by: (cont)~~

Chief, Nautical Chart Branch

APPROVED:

Chief, Review and Drafting
Section, Photogrammetry Division

Chief, Coastal Surveys

Act 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 with T-11091 shows 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.