

T-13282

T-13282

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey .Shoreline(Photogrammetric).....

Job No. PH-6301..... Map No. T-13282.....

Classification No. Final Edition No. ...1.....

Field Edited Map

LOCALITY

State Alaska

General Locality Kamishak Bay

Locality McNeil Cove, McNeil River

1962 TO 1968

REGISTRY IN ARCHIVES

DATE

①

DESCRIPTIVE REPORT - DATA RECORD
T-13282

PROJECT NO. (II):
PH-6301

FIELD OFFICE (III): None	CHIEF OF PARTY
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PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center, Norfolk, VA	OFFICER-IN-CHARGE J. Bull, Director
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INSTRUCTIONS DATED (II) (III):
Office, March 18, 1965
Office, Supplement I - February 10, 1966
Office, Supplement II - May 5, 1967
Office, Supplement III, December 27, 1967
Office, Supplement IV, April 2, 1968
Office, Supplement V, April 9, 1968

METHOD OF COMPILATION (III):
Graphic

MANUSCRIPT SCALE (III): 1:10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
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DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
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APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
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GEOGRAPHIC DATUM (III): N.A. 1927	VERTICAL DATUM (III): High Water 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 lower low water
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REFERENCE STATION (II):
McNeil, 1946

LAT.: 59°06'03.724" (115.2M)	LONG.: 154°12'01.034" (16.5M)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
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PLANE COORDINATES (IV): Y=863,435.43 ft. X=462,345.52	STATE Alaska	ZONE 5
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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.

DESCRIPTIVE REPORT - DATA RECORD

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FIELD INSPECTION BY (ii): None		DATE:
MEAN HIGH WATER LOCATION (iii) (STATE DATE AND METHOD OF LOCATION): Air photo compilation - June 18, 1962, date of photography		
PROJECTION AND GRIDS RULED BY (iv): A. Bethea	DATE 4/17/68	
PROJECTION AND GRIDS CHECKED BY (iv): L.F. VanScoy	DATE 4/17/68	
CONTROL PLOTTED BY (iii): J. Steinberg	DATE 4/19/68	
CONTROL CHECKED BY (iii): Serena	DATE 4/19/68	
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (iii): G.M. Ball (for 1:20,000 compilation) T-12338	DATE 5/66	
STEREOSCOPIC INSTRUMENT COMPILATION (iii):	PLANIMETRY A.L. Shands	DATE 4/29/68
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (iii): A.L. Shands	DATE 5/5/68	
SCRIBING BY (iii):	DATE	
PHOTOGRAMMETRIC OFFICE REVIEW BY (iii): B. Wilson	DATE 5/3/68	
REMARKS: Field edit by: W.R. Cameron, July 1968		

DESCRIPTIVE REPORT - DATA RECORD
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CAMERA (KIND OR SOURCE) (III):

USC&GS Type "W" and "M"*

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62M 1826-1829	6/18/62	1445 PST	1:50,000	12.1' above MLLW

Predicted TIDE (III)

Diurnal

REFERENCE STATION:	RATIO OF RANGES	MEAN RANGE	BASE RANGE
Seldovia		15.4	17.8
SUBORDINATE STATION: Iliamna		12.3	14.5
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

J.B. Phillips

DATE:

May 1976

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

1

RECOVERED:

1

IDENTIFIED:

1

NUMBER OF BM(S) SEARCHED FOR (III):

0

RECOVERED:

0

IDENTIFIED:

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

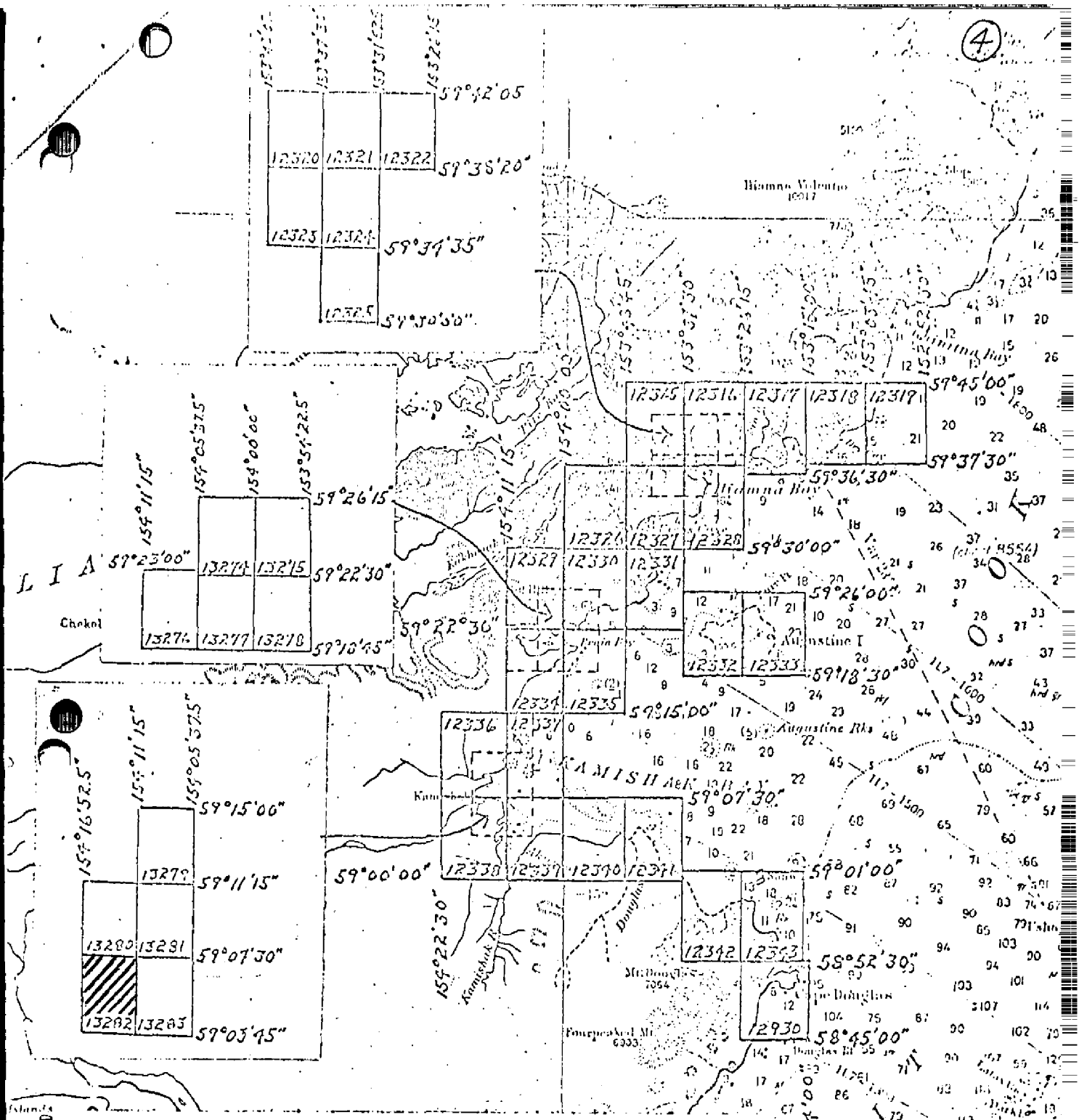
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

0

REMARKS:

* "M" photography at 1:50,000 scale used for compilation of T-12338

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JOB PH-6301 (PART-1)

COOK INLET, ALASKA

SHORELINE MAPPING

Scale 1:10,000 & 1:20,000

Revised 4-3-68 L.F.V.

SUMMARY

T-13282 is one of 40 shoreline maps comprising Job PH-6301 (Part I) compiled for use in contemporary hydrographic survey and nautical charting operations.

Field work, prior to compilation, consisted of the recovery and identification of horizontal control.

Compilation was by Wild B-8 stereoplotter, using 1:30,000 scale color photography. Cronaflex positives and ozalids of the manuscript were forwarded for the use of the field editor and the preparation of the hydrographer's boat sheets. Accompanying these were specially prepared ratio photographs to aid in the location of hydrographic signals.

Final edit was accomplished during July 1968

Final review was accomplished at the Rockville Office in May 1976

A cronaflex positive copy of the map and a Descriptive Report will be registered in the NOS Archives.

T-13282

COMPILATION RECORD

COMPLETION DATE

REMARKS

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit		
Alongshore area for hydro	May 1968	Superseded
Partial Field Edit applied	8/9/68	Superseded
Remainder of Field Edit applied	Oct. 1968	

FIELD INSPECTION

■-T-13282

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

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PHOTOGRAMMETRIC PLOT REPORT
Kamishak Bay, Alaska
Job PH-6301
May 1966

21. Area Covered

This report covers an area of Alaska, in the western portion of Kamishak Bay to be mapped on five T-sheets (T-12334, T-12336, T-12337, T-12338 and T-12339).

22. Method

Analytic aerotriangulation methods were used to bridge one strip of "M" photography at the scale of 1:50,000. The attached sketch shows the placement of and closure to the triangulation points used in the final adjustment. Due to the excessive forward overlap in the strip, numerous photographs were omitted from the bridge.

23. Adequacy of Control

Horizontal control identified and required to adjust this strip was adequate. Neither CHENIK SS-A, which could not be positively identified, nor KAMAK SS-A, which was not visible, were used in the final adjustment. The results of the bridge, which is void of common tie points, should comply to the National Standards of Map Accuracy for these five shoreline manuscripts.

24. Supplemental Data

Numerous U.S.G.S. quads were used to obtain elevations required for the final horizontal and vertical adjustment.

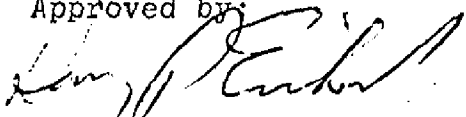
25. Photography

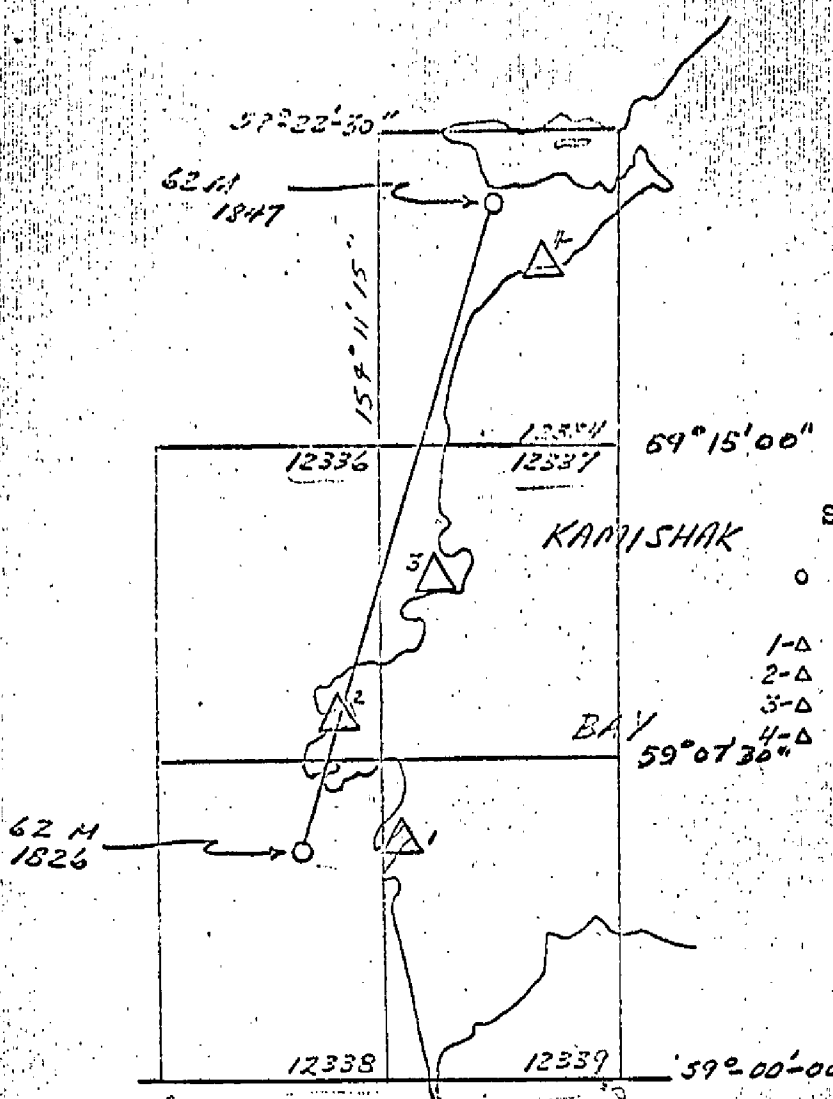
Photography was adequate with regard to coverage, overlap and image definition.

Respectfully submitted:


George M. Ball

Approved by:


Henry P. Eichert, Acting Chief
Aerotriangulation Section



PH-6301
 Alaska
 Cook Inlet
 Kamishak Bay
 Shoreline Mapping

o 1:50,000 RE89

- 1-Δ Pink, 1964
- 2-Δ Paint, 1964
- 3-Δ Chenik, 1964
- 4-Δ Kamak, 1946

CLOSURE TO CONTROL

Pink	SS A	(0.5)	(-0.2)
	SS B	(0.4)	(0.0)
Paint	SS A	(-1.4)	(0.6)
	SS B	(0.6)	(-1.5)
Chenik	SS A	Point could not be positively identified	
	SS B	(1.3)	(-1.0)
Kamak	SS A	Point was not visible	
	SS B	(-0.2)	(0.1)

Compilation Report
Kamishak Bay
T-13282
PH-6301

31. Delineation - see page 11.

The manuscript was compiled graphically using 62W ratio photography. Pass points used on the 62M ratio photographs in the compilation of the 1:20,000 scale manuscript (T-12338) were transferred to the 62W ratios for use as control.

There was no field inspection prior to compilation.

32. Control

See Photogrammetric Plot Report.

Shoreline passpoints which were dropped on the 1:20,000 (T-12338) manuscript covering the same area were scaled off on the coordinatograph and re-established on this manuscript along with the bridge points for use as control.

33. Supplemental Data - None

34. Contours and Drainage

Contours are inapplicable.

Drainage was delineated from office interpretation of the photographs.

35. Shoreline and Alongshore Details

Rocks, ledges, and shallow areas were delineated from office interpretation of the photographs.

Any alongshore detail appearing on this manuscript which is not visible on the 62W ratios, was taken from the 1:20,000 scale (T-12338) manuscript.

36. Offshore Details - None

37. Landmarks and Aids - None

38. Control for Future Surveys - None

39. Junctions

Junctions are in agreement with T-12336 (1:20,000) and T-13280 (1:10,000) to the north, T-12339 (1:20,000) and T-13283 (1:10,000) to the east, and T-12338 (1:20,000) to the south and west.

NOTES FOR REPORTS FOR THE FOLLOWING T-SHEETS COVERING
MC NEIL COVE AND BRUIN BAY:

T-13282

(11)

T-13274 through T-13283

PLEASE USE THIS NOTE FOR EACH REPORT UNDER ITEM #31 DELINEATION.

The area of this manuscript was previously compiled at 1:20,000 scale under one of the following manuscripts: T-12329, T-12330, T-12334, T-12335, T-12336, T-12337, T-12338 or T-12339, using 1962 and 1967 "M" photography at 1:50,000 scale, June 18, 1962 and 1:60,000 scale, July 9, 1967, respectively.

Other "W" photography taken in 1962, also dated June 18, cover these areas. These were used to supplement the shoreline delineation of the "M" photos, especially in areas of shoreline layover.

The new or more recent re-compilation of this sheet at 1:10,000 scale was accomplished in the following manner:

1. Shoreline passpoints from the 1:20,000 compilations were scaled on the coordinatograph and recorded.
2. The same passpoints were re-plotted on the 1:10,000 projection sheets.
3. Readout positions of bridge passpoints for the 1:20,000 sheets were also plotted on the 1:10,000 scale sheets.
4. The entire shoreline was graphically delineated, then edited and revised, if necessary, through the use of the processed 1962 "W" ratio prints. Areas where these revisions were deemed necessary will be reduced with the vertical projector and corrected on the 1:20,000 manuscripts.

The remaining alternative for the compilation of these 1:10,000 scale sheets, would be by the ratio of 5X and 6X of the 1962 and 1967 "M" photos. Inasmuch as these ratios would far exceed the 3X ratios of 1962W photos, and the vertical projector ratio of 2X, and, in essence of meeting the June 15, 1968 ship schedule, it was determined that the method used was the most expedient and accurate.

WAS DISCUSSED WITH THE ROCKVILLE, MD. PHOTO OFFICE WHO CONCURRED

40. Horizontal and Vertical Accuracy - No statement

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison has been made with USGS quadrangle Iliamna (A-4), Alaska, scale 1:63,360, dated 1951.

47. Comparison with Nautical Charts

Comparison has been made with USC&GS chart No. 8554 (Cook Inlet, Southern Part), scale 1:200,000, dated May 10, 1965, 9th edition.

Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by,

Arnold L. Shands
Carto Tech
May 1968

Approved and forwarded:

J. Bull, RADM
Director, Atlantic Marine Center

0.

T - 13282
Ph. 6301

49. NOTES FOR THE HYDROGRAPHER AND/OR THE FIELD EDITOR

It has been considered good practice to delineate upon the manuscript all shoal and shallow areas which might be considered as a danger to navigation to the Hydrographer. The use of color photography often intensifies these features so that, that which is delineated as a shoal or shallow, might be only a bottom change, or a change in marine vegetation. These shoal or shallow lines should be verified, or deleted if they do not exist.

The process of bringing a manuscript from "Incomplete" to Advance" necessitates a complete application of field or hydro edit. This "Advance" copy is required in order to furnish a "smooth shoreline" for boat sheets and/or the processing of hydro sounding data. If extraneous information is not deleted from our "field edit ozalid" by the field and/or hydro editor, it can inadvertently be carried forward to the "Advance" copy and eventually become a detriment to the hydro processor.

Your cooperation in applying all of your edit corrections, deletions, explanatory notes, fix information, dangers or aids, or other items to be delineated on the manuscripts directly to the ozalid copies and/or field (matte) photos, will greatly facilitate the complete conclusion of an "Advance" copy. Your return of this information to the compilation office from whence it originated, will do much to alleviate the problem of keeping all edit material together for more complete application.

Items of questionable nature, requiring your attention, which are not noted hereon, will be found on the accompanying "field edit ozalid".

FIELD EDIT REPORT

SHEET T-13282

McNeil River

Kamishak Bay, Alaska

PH-6301

July 1968

USC&GSS PATHFINDER

CDR A. C. Holmes, Cmdg.

51 Methods

The field edit of this map was done in accordance with photogrammetric instructions and project instructions to the Commanding Officer, Ship PATHFINDER, dated 3 April 1968.

All deletions, additions, and corrections to be applied to the manuscript appear on the Field Edit Ozalid. This ozalid is an index and inventory of all field edit work performed. All features to be deleted from the map are marked out in green ink.

No field ratio prints are a part of the field edit data for this sheet.

52 Adequacy of Compilation

The compilation of this manuscript was adequate and complete considering that no field inspection of the area was made prior to compilation and that only high water photography was available.

54 Recommendations

None.

56 Additional Information

The MHWL was visually verified and found to be correct as compiled. No measurements are necessary.

The area south of Lat. 59-05.8 was not field edited in conjunction with the edit of the area north of this latitude. The southern area will be edited this season and the data will be shown on the Field Edit Ozalid for sheet T-12338, scale 1:20,000.

No landmarks or fixed aids to navigation fall within the limits of this sheet.

William R. Cameron
William R. Cameron
LTJG-USESSA
Photo Officer

Approved:

A. C. Holmes
A. C. Holmes
CDR-USESSA
Commanding Officer

PHOTOGRAMMETRIC OFFICE REVIEW

T-13282 ~~E-10363~~

1. PROJECTION AND GRIDS BW		2. TITLE BW		3. MANUSCRIPT NUMBERS BW		4. MANUSCRIPT SIZE	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY BW			6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX			7. PHOTO HYDRO STATIONS X	
8. BENCH MARKS XX		9. PLOTTING OF SEXTANT FIXES X		10. PHOTOGRAMMETRIC PLOT REPORT BW		11. DETAIL POINTS BW	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE BW		13. LOW-WATER LINE BW		14. ROCKS, SHOALS, ETC. BW		15. BRIDGES XX	
16. AIDS TO NAVIGATION NONE		17. LANDMARKS NONE		18. OTHER ALONGSHORE PHYSICAL FEATURES BW		19. OTHER ALONGSHORE CULTURAL FEATURES X	
PHYSICAL FEATURES							
20. WATER FEATURES BW			21. NATURAL GROUND COVER X			22. PLANETABLE CONTOURS XX	
23. STEREOSCOPIC INSTRUMENT CONTOURS XX		24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		26. OTHER PHYSICAL FEATURES X	
CULTURAL FEATURES							
27. ROADS X		28. BUILDINGS X		29. RAILROADS XX		30. OTHER CULTURAL FEATURES X	
BOUNDARIES							
31. BOUNDARY LINES XX				32. PUBLIC LAND LINES XX			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES BW			34. JUNCTIONS BW			35. LEGIBILITY OF THE MANUSCRIPT BW	
36. DISCREPANCY OVERLAY AS		37. DESCRIPTIVE REPORT CHB		38. FIELD INSPECTION PHOTOGRAPHS X		39. FORMS CHB	
40. REVIEWER B. Wilson				SUPERVISOR, REVIEW SECTION OR UNIT A.C. Rauck			
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 L.O. Neterer 8/12/68 C.H. Bishop 11/21/68				SUPERVISOR A.C. Rauck			
43. REMARKS Field edit applied from: Field Edit Ozalid T-13282 and reduction of T-12338.							

Review Report T-13282
Shoreline Survey
May 1976

61. General Statement

Refer to item 31 of the Descriptive Report for detailed information concerning the compilation of this map.

62. Comparison with Registered Topographic Surveys - None

63. Comparison with Maps of Other Agencies -

Refer to the Compilation Report, item 46.

64. Comparison with Contemporary Hydrographic Surveys

H-9014 1:10,000 1968
H-9001 1:20,000 1968-1970

Comparison has been made with the final reviewed hydrographic surveys and both are in agreement.

65. Comparison with Nautical Charts

Chart 8554 1:200,000 13th edition, May 1974

66. Adequacy of Results and Future Surveys

This map meets the standards of map accuracy and complies with Bureau requirements.

Submitted by,
J.B. Phillips
J.B. Phillips

Approved:

[Signature]
Chief, Photogrammetric Branch

[Signature]
Chief, Coastal Mapping Division

T-13282
PH-6301

48. GEOGRAPHIC NAME LIST

HORSESHOE COVE

McNEIL COVE

McNEIL RIVER

MIKFIK CREEK

PINKIDULIA COVE

