

T- 13279

T-13279

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-13279.....

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

Field Edited Map

LOCALITY

State ..Alaska.....

General Locality Kamishak Bay.....

Locality ..McNeil Cove, Chenik Head.....

1962 TO 1968

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD
T -13279

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, 3/18/65
 Office, Supplement I, 2/10/66
 Office, Supplement II, 5/5/67
 Office Supplement III, 12/27/67
 Office, Supplement IV, 4/2/68
 Office, Supplement V, 4/9/68

METHOD OF COMPILATION (III):
Graphic

MANUSCRIPT SCALE (III): 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 (III):
Chenik, 1964

LAT.: 59°12'04.2572" (131.7M)	LONG.: 154°09'34.0279" (540.1M)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
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PLANE COORDINATES (IV): Y = 900,013.58 ft. x = 470,110.04 ft.	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

T-13279

FIELD INSPECTION BY (III): 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 4/16/68
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): V.E. Serena		DATE 4/19/68
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): G.M. Ball (for 1:20,000 compilation) T-12337		DATE 5/66
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY A.L. Shands	DATE 5/2/68
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): L.L. Graves		DATE 5/7/68
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation Scriving & Stickup Field Edit C.H. Bishop		DATE 11/7/68
REMARKS: Field edit by: W.R. Cameron June-July, 1968		

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

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

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62W6620-6623	6/18/62	1700	1:30,000	13.8' above MLLW

Predicted TIDE (III) Diurnal

REFERENCE STATION:	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
SELDOVIA, KACHEMAK BAY, ALASKA		15.4	17.8
SUBORDINATE STATION:	H=0.81 L=0.87	12.3	14.5
ILIAMNA BAY, ALASKA			
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): J.B. Phillips

DATE:
April 1976

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

1

RECOVERED:

1

IDENTIFIED:

1

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

0

RECOVERED:

0

IDENTIFIED:

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

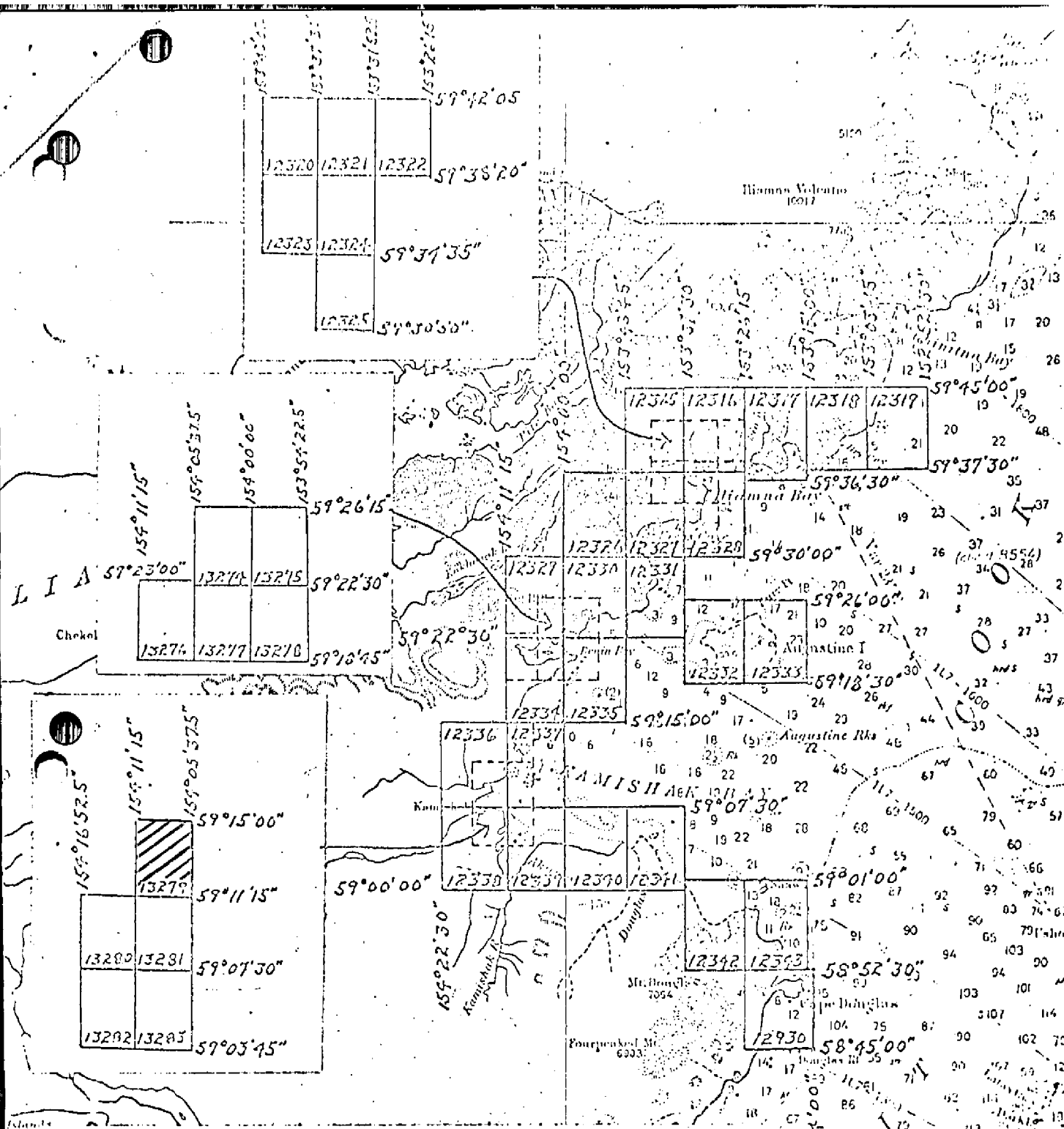
0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

0

REMARKS:

* "M" photography at 1:50,000 scale used for compilation of T-12337.



JOB PH-6301 (PART-1)
 COOK INLET, ALASKA
 SHORELINE MAPPING
 Scale 1:10,000 & 1:20,000

Revised 4-3-68 LEV

SUMMARY

T-13279 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 April 1976.

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

T-13279

COMPILATION RECORD

COMPLETION DATE

REMARKS

Compilation complete pending field edit		
Alongshore area for hydro	May 1968	Superseded
Partial Field Edit Applied	Sept. 1968	Superseded
All field edit applied	Oct. 1968	

FIELD INSPECTION

CP-13279

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.

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.

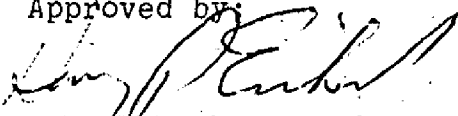
25. Photography

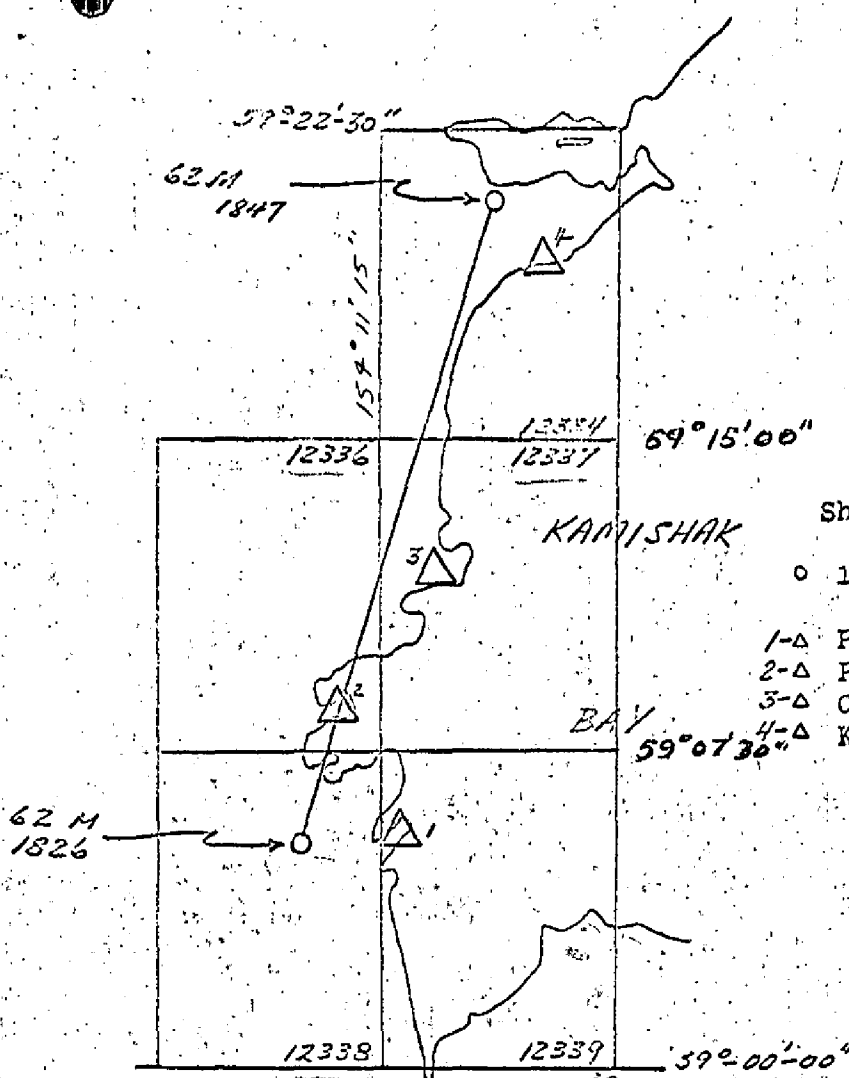
Photography was adequate with regard to coverage, overlap and image definition.

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
T-13279

31. Delineation

The shoreline and planimetry was delineated graphically by the use of 1962 W ratio photographs.

Where the image was indistinct or did not appear on the W photography, detail was taken from the 1:20,000 manuscript compilation from M photography.

Refer to page for more comments on delineation.

32. Control

See photogrammetric plot report for 1:20,000 scale manuscript, T-12337 for this area.

Passpoints for shoreline control of the 1:20,000 scale manuscript was scaled and those positions were plotted onto this manuscript. Bridging control was also used for the control of this manuscript.

Shoreline passpoints of the 1:20,000 scale photography was re-established on the 1:10,000 scale photographs used for the compilation of this map.

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

Numerous rocks, ledge, and shallow areas were delineated from office interpretation of the photographs. No low water line was shown.

36. Offshore Details

Numerous offshore rocks and reefs were compiled from M photography on 1:20,000 manuscripts and transferred to this manuscript.

37. Landmarks and Aids - None

38. Control for Future Surveys - None

39. Junctions

Junctions are in agreement with T-12334 (1:20,000) to the north, T-12337 (1:20,000) to the east, T-13281 (1:10,000) and T-12337 (1:20,000) to the south, and T-12336 (1:20,000) to the west.

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

T-13279

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 ^{the} 1962W photos, and the vertical projector ratio of 2X, and ^{the} 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

A comparison was made with USGS quadrangles, Iliamna (A-3), Alaska, scale 1:63,360, dated 1951 and Iliamna (A-4), Alaska, scale 1:63,360, dated 1951.

47. Comparison with Nautical Charts

A comparison was made with Chart 8554 (Cook Inlet, Southern Part), scale 1:200,000, 9th Edition, dated May 10, 1965.

Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by,

L.L. Graves
Carto (Tech)
May 1968

Approved and forwarded:

J. Bull, RADM
Director, Atlantic Marine Center

T - 13279

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-13279

CHENIK HEAD

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 April 3, 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 field edit notes on the ozalid are in violet ink, green ink, or red ink. Features marked in green should be deleted; the approximate position of hydrographic signals used in field edit are shown in red ink.

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

52 Adequacy of Compilation

Compilation of the manuscript was adequate and complete considering there was no field inspection of the area prior to compilation.

54 Recommendations

None.

56 Additional Information

Alaska Daylight Time, time meridian 135W, was used for the entire survey.

Hydrographic signal positions used in fixes on rocks, reefs, etc. are listed on a sheet attached to the Field Edit Ozalid. Signals are listed by number rather than name to conform with the requirements of electronic data processing.

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

The area north of Lat. 59-13.6 has not been field edited at this time as it is not included in the 1:10,000 hydrographic survey. The edit of this area will be shown on sheet T-12337.

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-13279

~~T-12337~~

1. PROJECTION AND GRIDS L.L.G.	2. TITLE LLG	3. MANUSCRIPT NUMBERS LLG	4. MANUSCRIPT SIZE
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY LLG	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (<i>Topographic stations</i>) X	7. PHOTO HYDRO STATIONS CHB	
8. BENCH MARKS X	9. PLOTTING OF SEXTANT FIXES CHB	10. PHOTOGRAMMETRIC PLOT REPORT LLG	11. DETAIL POINTS LLG
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE LLG	13. LOW-WATER LINE NONE	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES X
16. AIDS TO NAVIGATION None	17. LANDMARKS NONE	18. OTHER ALONGSHORE PHYSICAL FEATURES LLG	19. OTHER ALONGSHORE CULTURAL FEATURES X
PHYSICAL FEATURES			
20. WATER FEATURES LLG	21. NATURAL GROUND COVER X		22. PLANETABLE CONTOURS X
23. STEREOSCOPIC INSTRUMENT CONTOURS X	24. CONTOURS IN GENERAL X	25. SPOT ELEVATIONS X	26. OTHER PHYSICAL FEATURES X
CULTURAL FEATURES			
27. ROADS X	28. BUILDINGS X	29. RAILROADS X	30. OTHER CULTURAL FEATURES X
BOUNDARIES			
31. BOUNDARY LINES X		32. PUBLIC LAND LINES X	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES LLG	34. JUNCTIONS LLG		35. LEGIBILITY OF THE MANUSCRIPT CHB
36. DISCREPANCY OVERLAY LLG	37. DESCRIPTIVE REPORT LLG	38. FIELD INSPECTION PHOTOGRAPHS NONE	39. FORMS CHB
40. REVIEWER L.L. Graves		SUPERVISOR, REVIEW SECTION OR UNIT A.C. Rauck, Jr.	
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 A.L. Shands 9/25/68		SUPERVISOR	
Reviewer: C.H. Bishop 11/7/68		A.C. Rauck	
43. REMARKS Field edit applied from: field edit ozalid T-13279 & enlargement of T-12337			

Review Report T-13279
Shoreline Survey
April 1976

61. General Statement

Refer to item 31 in the Compilation Report for an explanation of the methods used to compile this map. This same area is covered at 1:20,000 scale on T-12337. To avoid repetition, the 1:10,000 scale map will be the only one reviewed.

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 was made with the final reviewed hydrographic surveys. The outer ledge limits were removed from the Class I manuscript where they conflicted with the hydrographer's soundings and depth curves. There are differences in rock elevations due to the hydrographer's use of actual tide readings.

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-13279
PH-6301
GEOGRAPHIC NAME LIST

Amakdedulia Cove

Chenik (Abandoned)

Chenik Head

Kamishak Bay

