

T- 12337

ORIGINAL

T- 12337

FORM C&GS-504	
U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	Shoreline (Photogrammetric)
Classification:	FINAL
Field No.	Office No. T-12337
Field edited map	Edition: 1
LOCALITY	
State	Alaska
General locality	Kamishak Bay-Cook Inlet
Locality	Chenik Head
1962 - 1968	
CHIEF OF PARTY	
J. Bull, RADM, Director, Atlantic Marine Center	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

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PROJECT NO. (II):

PH-6301

FIELD OFFICE (III):

None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, Virginia

OFFICER-IN-CHARGE

J. Bull, RADM, USESSA, Director

INSTRUCTIONS DATED (II) (III):

Office March 18, 1965 Part I
Office February 10, 1966 Supplement I

METHOD OF COMPILATION (III):

Wild B-8

USCRIPT SCALE (III):

1:20,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:8,333 pantographed to 1:20,000

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (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 LOWER LOW WATER~~ mean lower low water

REFERENCE STATION (III):

CHENIK, 1964

LAT.:

LONG.:

59° 12' 04.2572" (131.7M)

154° 09' 34.0279" (540.1M)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

1,900,013.58 ft.

x = 470,110.04 ft.

Alaska

5

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

FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Wild B-8 Instrument, June 18, 1962		
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		2-8-66
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. C. Westphall		2-9-66
CONTROL PLOTTED BY (III):		DATE
K. G. Boyle		6-3-66
CONTROL CHECKED BY (III):		DATE
A. L. Shands		6-3-66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
STEREOSCOPIC INSTRUMENT COMPILATION (III):		DATE
PLANIMETRY		
K. G. Boyle		July 1966
CONTOURS		DATE
MANUSCRIPT DELINEATED BY (III):		DATE
K. G. Boyle		July 1966
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
C. H. Bishop		July 1966
REMARKS:		
Field edit by W.R. Cameron August 1968		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS "M" and "W" Cameras

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62M 1838 and 1841	18 June 1962	1448 PST	1:50,000	12.3 ft. MLLW
62W(c) 7430 thru 7437	29 June 1962	1630	1:30,000	3.9 " "
62W 6398 thru 6402	18 June 1962	1315 PST	1:15,000	6.7 " "
62W 6404 thru 6409	"	1321 "	"	7.1 " "
62W 6422 thru 6425	"	1326 "	"	7.4 " "
62W 6427	"	1332 "	"	7.7 " "
62W 6508 thru 6513	"	1607 "	1:30,000	14.3 " "
62W 6616 thru 6623	"	1700 "	"	13.8 " "

Predicted TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: SELDOVIA		15.4	17.8
SUBORDINATE STATION: Iliamna Bay		12.3	14.5
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):

RECOVERED:

IDENTIFIED:

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

RECOVERED:

IDENTIFIED:

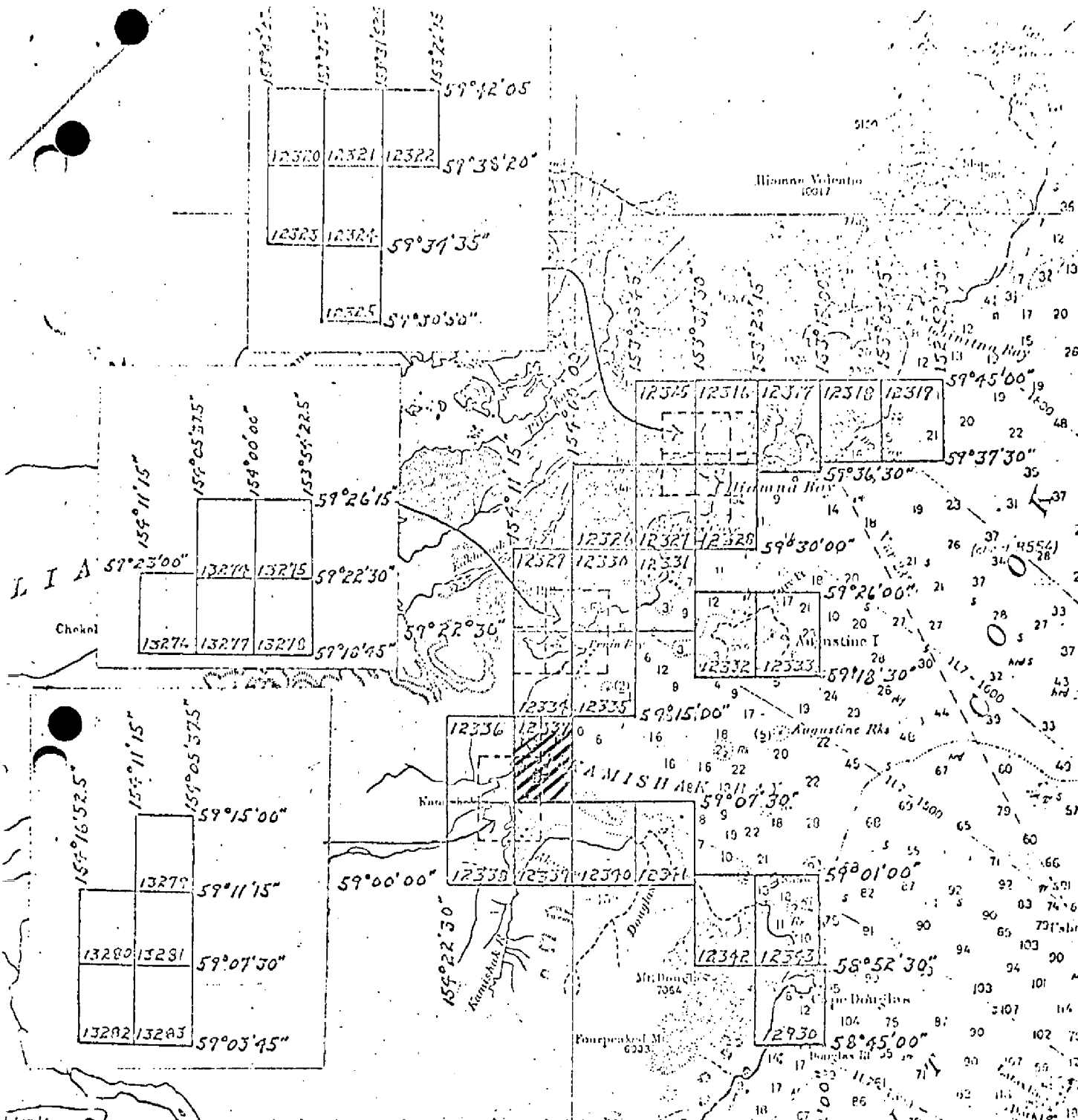
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:



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-12337 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 August 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-12337

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for Hydro	July 1966	Superseded
Shoreline revised from reduction of 1:10,000 scale compilation, West Half	June 1968	Superseded
Field Edit Applied	October 1968	

FIELD INSPECTION REPORT
Map Manuscript T-12337
Project PH-6301

There was no field inspection prior to compilation.

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.

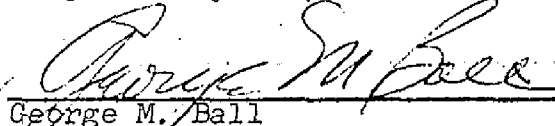
24. Supplemental Data

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

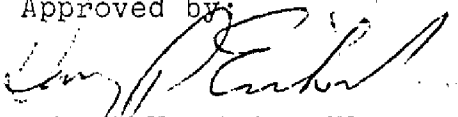
25. Photography

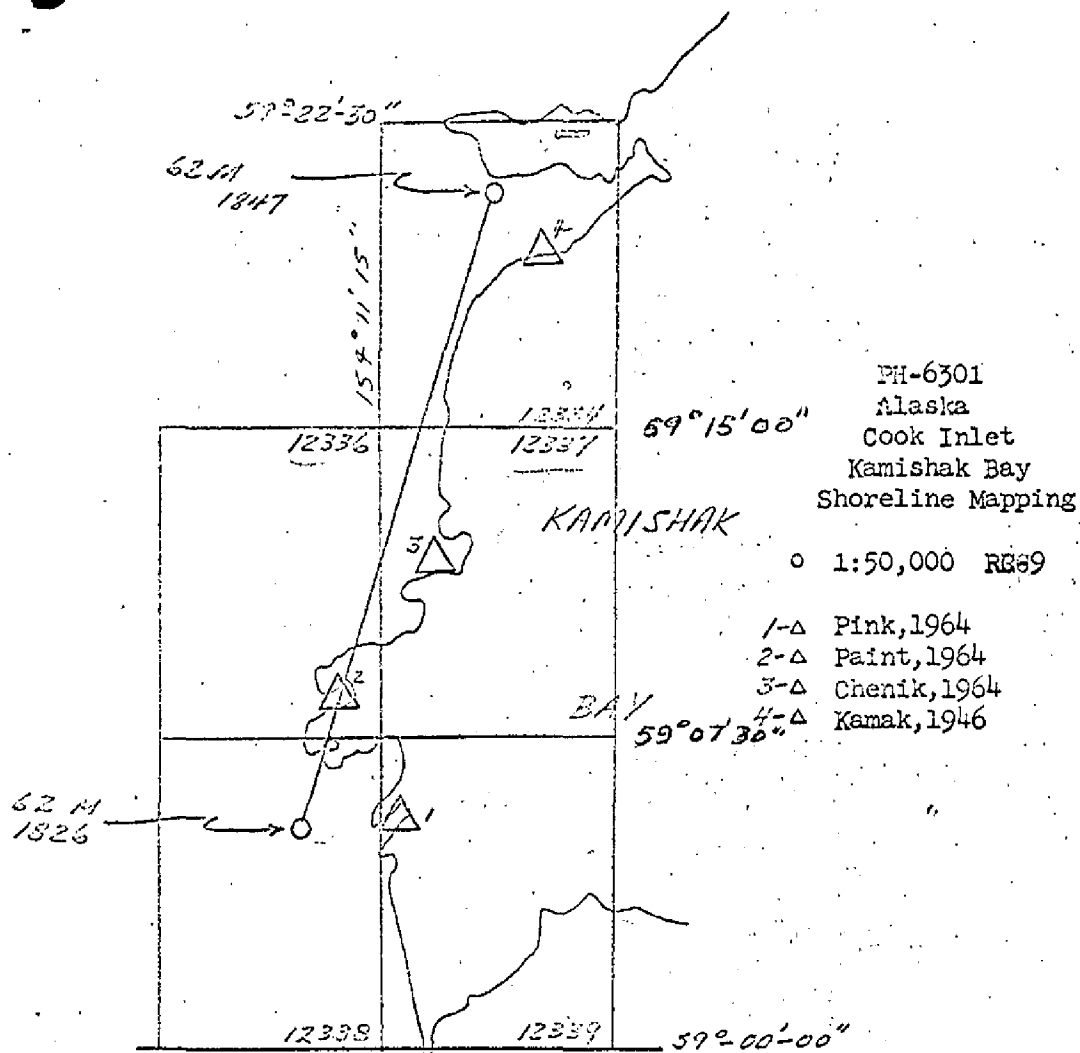
Photography was adequate with regard to coverage, overlap and image definition.

Respectfully submitted:


George M. Ball

Approved by:


Henry P. Eichert, Acting Chief
Aerotriangulation Section



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-12337

31. DELINEATION:

Planimetry was compiled by Wild B-8 instrument, using photographs taken near mean high water. Ledges, offshore rocks and shallow lines were compiled graphically with a vertical projector, using 1:15,000 scale photographs taken at half-tide. Pass points common to both sets of photographs were used for control in the vertical projector.

See item 41.

32. CONTROL:

See Photogrammetric Plot Report dated May 1966, submitted with this report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was compiled by Wild B-8 instrument.

35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline and alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS:

Nordyke Island and surrounding ledges were compiled from 1:30,000 scale color photographs, using a vertical projector. Two common pass points located by two cuts each were used for control.

Ledges and rocks northeast of McNeil Islet were compiled by the same method, using 1:15,000 scale panchromatic photographs, and the position labeled approximate.

It is noted in NOTES FOR THE HYDROGRAPHER that positions of the above areas should be checked by ground methods.

37. LANDMARKS AND AIDS:

T-12337

41. REVISION OF ITEM 31;

The area of this map west of longitude $154^{\circ} 05' 37.5''$ was compiled in April 1968 at 1:10,000 scale as T-13279 and T-13281 which were photographically reduced to 1:20,000. Then T-12337 was revised to agree with the reductions. Refer to the reports for T-13279 and T-13281.

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Satisfactory junctions have been made with Map Manuscripts T-12336 on the west and T-12339 on the south. There are no contemporary surveys on the north and east.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Reconnaissance Map ILIAMNA, ALASKA, scale 1:250,000, dated 1952, and USGS Quadrangles ILIAMNA (A-3) and (A-4) ALASKA, scale 1:63,360, dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with C&GS Chart 8554, 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

Approved by:

J. Bull, RADM, USESSA
Director, Atlantic Marine Center

Submitted by:

Charles H. Bishop

Charles H. Bishop
Cartographer

Aug, 1966

FIELD EDIT REPORT

SHEET T-12337

CHENIK HEAD

PH-6301

AUGUST 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. Ground survey methods were used to verify and locate objects that could not be seen on the photographs.

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 appearing on photographs are in violet ink. All features marked in green on the Field Edit Ozalid are to be deleted. Red circles on the ozalid indicate the approximate location of signals used in the field edit work.

Field edit notes for this manuscript appear on color contact print 62W7436. Color contact prints 62W7434 and 62W7435 are submitted also to facilitate plotting of two photo control points used to verify the compilation of the area near Nordyke Island.

52 Adequacy of Compilation

Compilation of the manuscript was adequate and complete considering there was no field inspection of the area prior to compilation. The compilation of details was much more complete than on other manuscripts of the area due to the availability of low-water color photographs.

54 Recommendations

None.

56 Additional Information

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

Hydrographic signals used in the field edit are listed on a sheet attached to the Field Edit Ozalid. Geographic positions are given for each signal. The approximate location of the signals are shown on the ozalid by a red circle.

The southwestern part of the area covered by this sheet was field edited earlier this season in conjunction with the 1:10,000 scale survey of McNeil Cove. See the Field Edit Ozalids for sheets T-13279 and T-13281 for the field edit of the area not edited on this sheet.

The MHWL compilation was verified and found to be correct unless corrections indicate otherwise.

56 Additional Information (continued)

The position of Nordyke Island and the surrounding islands and ledges was determined by ground methods. In general, the compilation of this area is oriented correctly, but the scale of the compilation is not consistent with the scale of the projection.

The submerged rock symbols on Chart 8554 which fall on the eastern part of this sheet are assumed to be general symbols indicating numerous reefs in the area. For this reason, it is recommended that they be deleted from the manuscript. No indication of any rocks was found during the hydrography covering the single symbol shown on the northern part of the manuscript. The southern group falls in the null area of the electronic control system used this season, and consequently this area will not be surveyed until next year. The positions of these symbols are indicated on the boatsheet and will be covered by the hydrography of the area.

The positions of the two stations used in the control survey of Nordyke Island are as follows:

Bill, 1968 $x=483,502.76$
 $y=1,892,454.41$
Jack, 1968 $x=481,812.74$
 $y=1,888,496.87$

The positions are for Alaska, Zone 5, and were determined using Form 157, Position of Intersected Station (P.C.) The side check was greater than 1:5,000 and the grid azimuth checked flat on both stations.

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

Approved:

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

PHOTOGRAMMETRIC OFFICE REVIEW
T. 12337

1. PROJECTION AND GRIDS CHB	2. TITLE CHENIK HEAD	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE CHB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY X	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X		7. PHOTO HYDRO STATIONS X
8. BENCH MARKS X	9. PLOTTING OF SEXTANT FIXES X	10. PHOTOGRAMMETRIC PLOT REPORT CHB	11. DETAIL POINTS X
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE X	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES X
16. AIDS TO NAVIGATION X	17. LANDMARKS X	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES X
PHYSICAL FEATURES			
20. WATER FEATURES CHB	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 CHB
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 CHB	34. JUNCTIONS CHB		35. LEGIBILITY OF THE MANUSCRIPT CHB
36. DISCREPANCY OVERLAY CHB	37. DESCRIPTIVE REPORT KGB	38. FIELD INSPECTION PHOTOGRAPHS X	39. FORMS CHB
40. REVIEWER <i>Charles H. Bishop</i> C. H. Bishop July 1966		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 B.L. Barge Oct. 1968 Reviewer: C. Bishop 11/19/68		SUPERVISOR A.C. Rauck, Jr.	
43. REMARKS Field Edit applied from: Field edit ozalid T-12337 with two attached sheets, color contact prints 62W7435 & 7436, and CSI cards for temporary stations BILL and JACK.			

Review Report TP-12337
Shoreline Survey
April 1976

61. General Statement

Only that portion of this sheet that falls east of longitude $154^{\circ}05'37.5''$ is covered by this review. The remainder of this sheet is covered by 1:10,000 scale manuscripts, T-13279 and T-13281. Refer to these manuscripts and the Descriptive Report for each, for detailed comments pertinent to the compilation and photogrammetric review of this area. A note stating this appears on the sheet.

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-9001 1:20,000 1968-1970

Comparison has been made with the final reviewed hydrographic survey. Some differences were found in the ledge and reef limits. During review these limits were removed from the Class I manuscript where they conflicted with soundings and depth curves that had been developed by the hydrographer.

Differences exist in elevations of rocks, 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 National 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

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6301
T-12337

Amakdedulia Cove

Chenik

Chenik Head

Kamishak Bay

McNeil Islet


Nordyke Island

Approved by:



A. J. Wraight
Chief Geographer

Prepared by:



Frank W. Pickett
Cartographic Technician

DESCRIPTIVE REPORT CONTROL RECORD

[illegible]