T-12338

ORIGINAL

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetry)

Classification: FINAL

~~Field No.~~ Office No. T-12338

Field Edited Map Edition 1

LOCALITY

State Alaska

General locality Kamishak Bay - Cook Inlet

Locality Mc Neil River

1962 - 1968

CHIEF OF PARTY

J.Bull,RADM,Director,Atlantic Marine Center

LIBRARY & ARCHIVES

DATE

USCOMM-DC 37022-P66

T-12338

FORM C&GS-181a
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 12338

PROJECT NO. (II): PH-6301	
FIELD OFFICE (II): None	CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center, Norfolk, Virginia	OFFICER-IN-CHARGE J. Bull, RADM, Director

INSTRUCTIONS DATED (II) (III):

OFFICE March 18, 1965 Part I
OFFICE February 10, 1966 Supplement I
OFFICE May 5, 1967, Supplement II
OFFICE Dec. 27, 1967, Supplement III
OFFICE April 2, 1968, Supplement IV
OFFICE April 9, 1968, Suppelement V

METHOD OF COMPILATION (III): Wild B-8

MANUSCRIPT SCALE (III): 1:20,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:8,333 pantographed to 1:20,000
DATE RECEIVED IN WASHINGTON OFFICE (IV):	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 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

REFERENCE STATION (III): MC NEIL 1946

LAT.:	LONG.:	
59° 06' 03.724" (115.2M)	154° 12' 01.034" (16.5M)	[X] ADJUSTED [ ] UNADJUSTED

PLANE COORDINATES (IV):		STATE	ZONE
Y = 1,863,435.43	X = 462,345.52	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.

USCOMM-DC 36393A-P66

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FORM C&GS-181b
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12338

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. E. Roundtree	DATE 2-8-66
PROJECTION AND GRIDS CHECKED BY (IV): R. C. Westphall	DATE 2-9-66
CONTROL PLOTTED BY (III): K. G. Boyle	DATE 6-3-66
CONTROL CHECKED BY (III): A. L. Shands	DATE 6-3-66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):	DATE
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY K. G. Boyle	DATE July 1966
CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): L O. Neterer	DATE July 1966
SCRIBING BY (III):	DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): C. H. Bishop	DATE July 1966

REMARKS:
Field edited by W.R. Cameron in April 1968

USCOMM-DC 36393B-P66

(3)

FORM C&GS-181c
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

F-12338

CAMERA (KIND OR SOURCE) (III):

USC&GS "M" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62 M 1826 and 1829	18 June 1962	1445 PST	1:50,000	12.1 ft. MLLW

PREDICTED TIDE (III) Diurnal

	RATIO OF RANGES	MEAN RANGE	~~XXXXX~~ RANGE
REFERENCE STATION: 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): RECOVERED: IDENTIFIED:

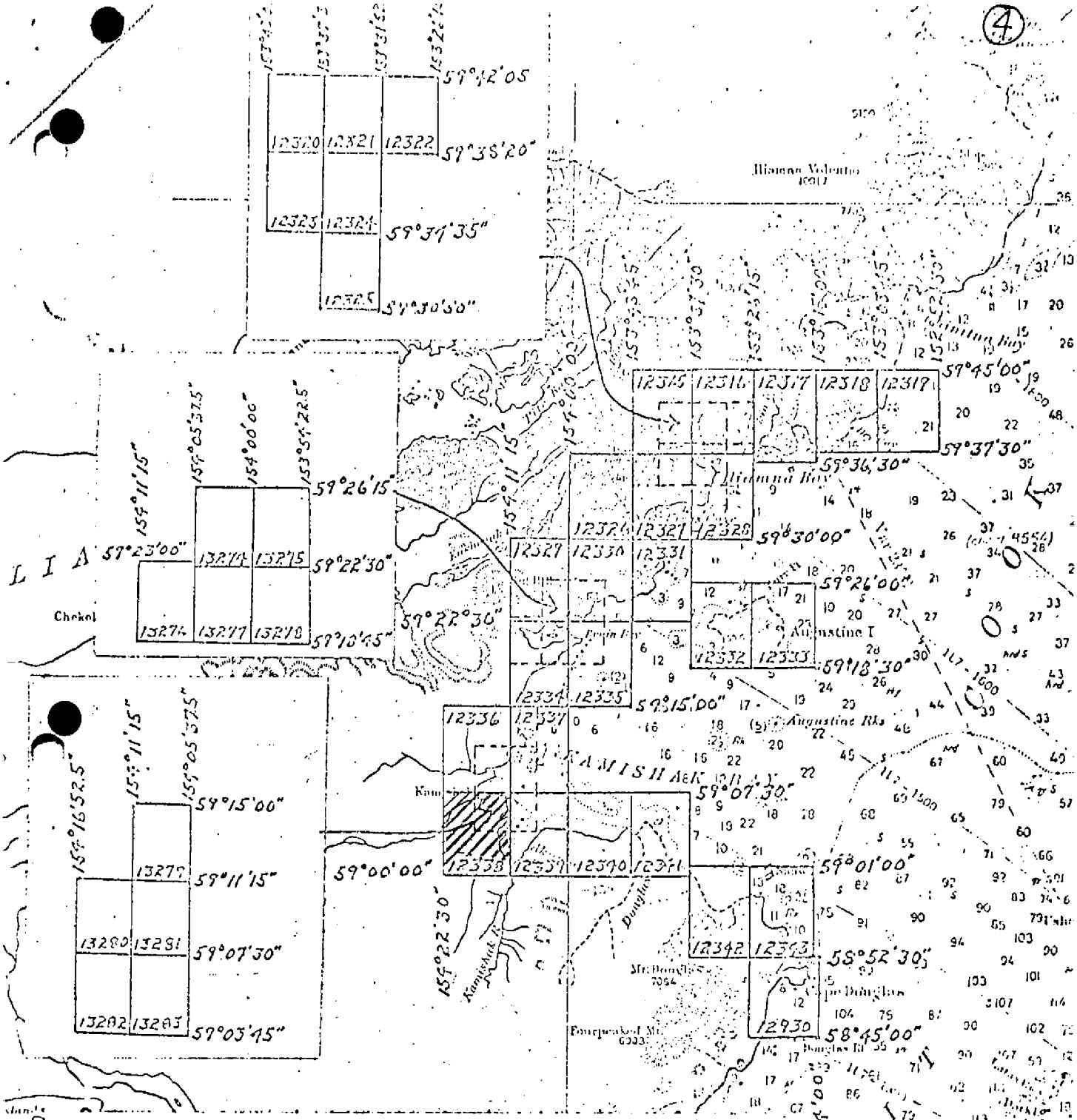
NUMBER OF BM(S) SEARCHED FOR (II): RECOVERED: IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None

REMARKS:

USCOMM-DC 36393C-P66



JOB PH-6301 (PART-1)

COOK INLET, ALASKA

SHORELINE MAPPING

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

SUMMARY

T-12338 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 May 1976

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

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T-12338

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for Hydro	**July 1966**	Superseded
Shoreline revised from reduction of 1:10,000 scale compilation of T-12382, NE quarter.	June 1968	Superseded
Field edit applied	October 1968	

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

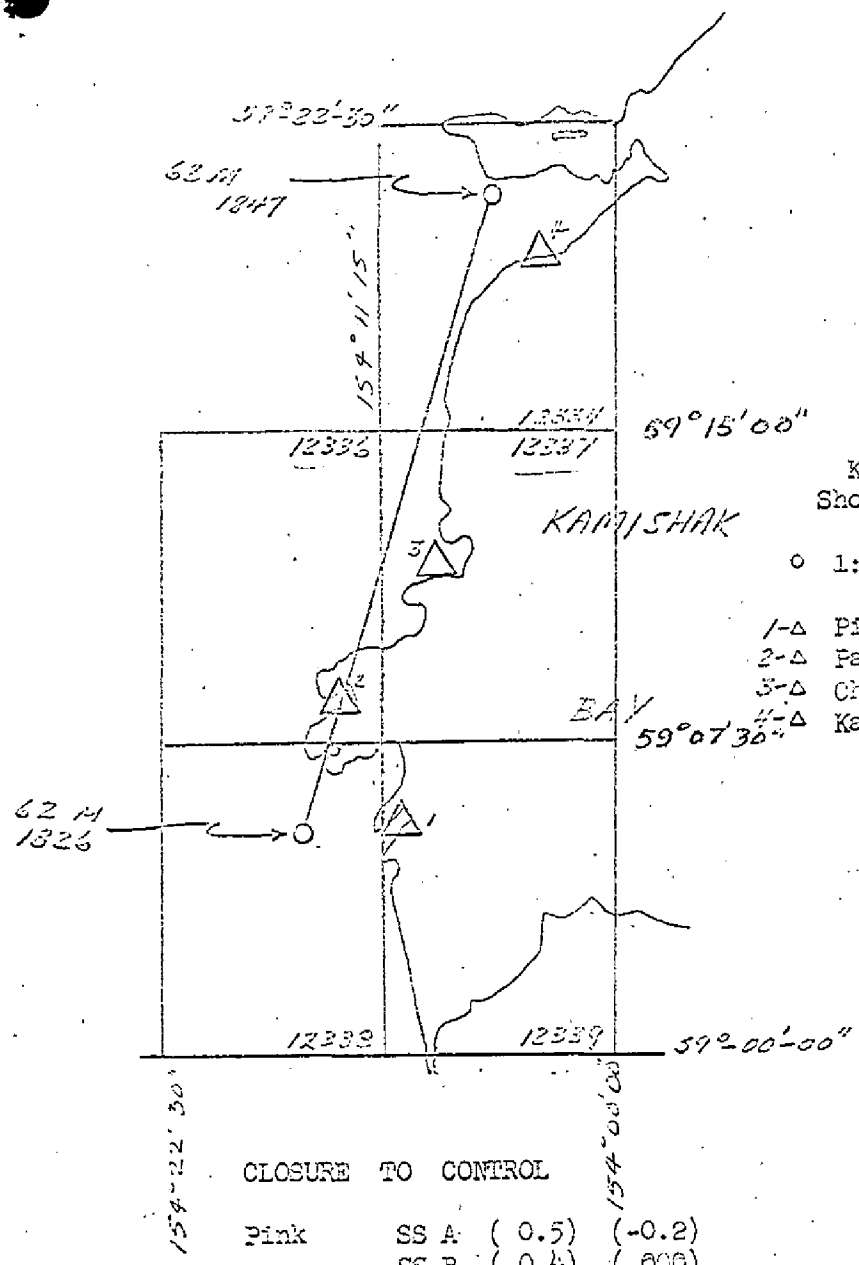
Photography was adequate with regard to coverage, overlap and image definition.

Respectfully submitted:

George M. Ball

Approved by:

Henry P. Eichert, Acting Chief
Aerotriangulation Section



PH-6301
Alaska
Cook Inlet
Kamishak Bay
Shoreline Mapping

○ 1:50,000 RG89

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

CLOSURE TO CONTROL

Pink	SS A	(0.5)	(-0.2)
	SS B	(0.4)	(000)
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-12338

31. DELINEATION:

Planimetry was compiled by Wild B-8 Instrument, using photographs taken near mean high water. 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:

None

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

T-12338

41. REVISION OF ITEM 31:

The area of this map north of latitude 59° 03' 45" and east of longitude 154° 16' 52.5" was compiled in April 1968 at 1:10,000 scale as T-13282, which was photographically reduced to 1:20,000. Then T-12338 was revised to agree with T-13282. Refer to the report for T-13282.

39. JUNCTIONS:

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

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 Quadrangle ILIAMNA (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 Ctr.

Submitted by:

Charles H. Bishop

C. H. Bishop
Cartographer
Aug. 1966

(12)

FIELD EDIT REPORT

SHEET T-12338

McNEIL RIVER

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 3 April 1968.

The Field Edit Ozalid shows all the field edit data obtained. The compilation of all features in the area is correct.

52 Adequacy of Compilation

Compilation of the manuscript was adequate and complete.

54 Recommendations

None.

56 Additional Information

The area north of Latitude 59-06 N. was field edited in conjunction with the 1:10,000 scale hydrographic survey of McNeil Cove. The field edit data of this area is shown on the Field Edit Ozalid for sheet T-13282.

William R. Cameron

William R. Cameron
LTJG-USESSA
Photogrammetric Officer

Approved:

A. C. Holmes

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

(14)

FORM C&GS-1002
(9-66)

U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW
T- 12338

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
CHB	MC NEIL RIVER	CHB	

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
CHB	X	X

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
X	X	CHB	X

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
CHB	X	CHB	X

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
X	X	CHB	

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
CHB	X	X

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
X	X	X	CHB

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
X	CHB	X	X

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
X	X

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
CHB	CHB	CHB

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
CHB	KGB	X	

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
Charles H. Bishop C. H. Bishop	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	SUPERVISOR
A.L. Shands 10/68 C.H. Bishop 11/19/68	A.C. Ruack

43. REMARKS

Field edit applied from: Field Edit ozalid, T-12338

Review Report T-12338
Shoreline Survey
May 1976

61. General Statement

The area to the north of latitude 59°03'45" is covered by T-13282, a 1:10,000 scale compilation.

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 1968-70

Comparison has been made with the final reviewed hydrographic surveys, and all surveys 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:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

T-12338
Ph-6301

48. GEOGRAPHIC NAME LIST:

AKUMWARVIK BAY
HORSESHOE COVE
LITTLE KAMISHAK RIVER
MC NEIL COVE
MC NEIL RIVER
MIKFIK CREEK
PINKIDULIA COVE

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-12338 PROJECT NO. PH-6301 SCALE OF MAP 1:20,000 SCALE FACTOR None

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)
	Alaska 59154	N.A.	59° 06' 03.724"	115.2	(1741.4)					
MC NEIL 1946	pg. 1	1927	154° 12' 01.034 "	16.5	(938.7)					
			1 863 435.43	3 435.43	(6 564.57)					
"	"	"	462 345.52	2 345.52	(7 654.48)					

1 FT. = .3048006 METER

COMPUTED BY: C. H. Bishop DATE: July 29, 1966

CHECKED BY: B. Wilson DATE: May 22, 1968

COMM-DC-57843