FORM C&GS-504

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

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Job No. Ph-630/
Field No. Class. FINAL Office No. T-12339

Field Edited Map Edition |

LOCALITY

State Alaska

General locality Kamishak Bay - Cook Inlet

19.62 - 1968

CHIEF OF PARTY

Locality Akumwarvik Bay

J.Bull, RADM, Director, Atlantic Marine Center

LIBRARY & ARCHIVES

DATE

USCOMM-DC 37022-P66

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FORM C&GS-181a (3-66)		E		J.S. DEPARTMENT OF COMMERCE ENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY
_	DESCRIPTIVE R	FPORT - DATA	PECOPO	COAST AND GEODETIC SONVE.
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PROJECT NO. (II):				
PROJECT NO. (II):				
PH-6301				
FIELD OFFICE (II):		····	CHIEF OF PARTY	
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THO TOGRAMMETRIC O	FIGE (III)		OF FIGER IN CHARG	
Atlantic Ma	arine Center, Norfolk, Vir	ginia	J. Bull, RA	DM, USESSA Director
INSTRUCTIONS DATED	(n) (m) :			•
OFFICE	March 18, 1965	Part I		
OFFICE	February 10, 1966	Supplement	I	
	May 5, 1967		$\bar{\mathcal{L}}$	
	0 - 27 1867	" I	7	
	Dec, 27, 1967 April 2, 1968	" J	Z	
	April 2,1968		-	
	April 9, 1968	" I		
METHOD OF COMPILAT		<u> </u>		
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DATE RECEIVED IN WA	SHINGTON OFFICE (IV):	DATE REPO	RTED TO NAUTICAL	CHART BRANCH (IV):
1				
APPLIED TO CHART N	0.	DATE:		DATE REGISTERED (IV):
· · · · · · · · · · · · · · · · · · ·				
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GEOGRAPHIC DATUM	HI) :		VERTICAL DATUM ((III): MHW EXCEPT AS FOLLOWS:
		·		(25) refer to mean high water
N. A. 1927			Elevations shown as	(5) refer to sounding detum
			i.e., 2000000000000	t mean lower low water
REFERENCE STATION	(m):			
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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.

FORM C&GS-1816 (3-66)

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

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE	E AND METHOD OF LOCATION):	
Air Photo Compilation - June	18, 1962, June 29, 196	2 (dates of photograph
PROJECTION AND GRIDS RULED BY (IV):		
The state of the s		DATE
A. E. Roundtree		2-8-66
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. C. Westphall		
CONTROL PLOTTED BY (III):		2-9-66
		DATE
K. G. Boyle		
ONTROL CHECKED BY (III):		6-3-66 DATE
		DATE
A. L. Shands		
ADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	6-3-66 DATE
		DATE
TEREOSCOPIC INSTRUMENT		
TEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	K. G. Boyle	Inlan 1066
	CONTOURS	July 1966
ANUSCRIPT DELINEATED BY (III):		
		DATE
L. O. Neterer		July 1966
RIBING BY (III):		DATE
OTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
C. H. Bishop		July 1966
Field edit by W.R.C	Janana August 18	
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U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

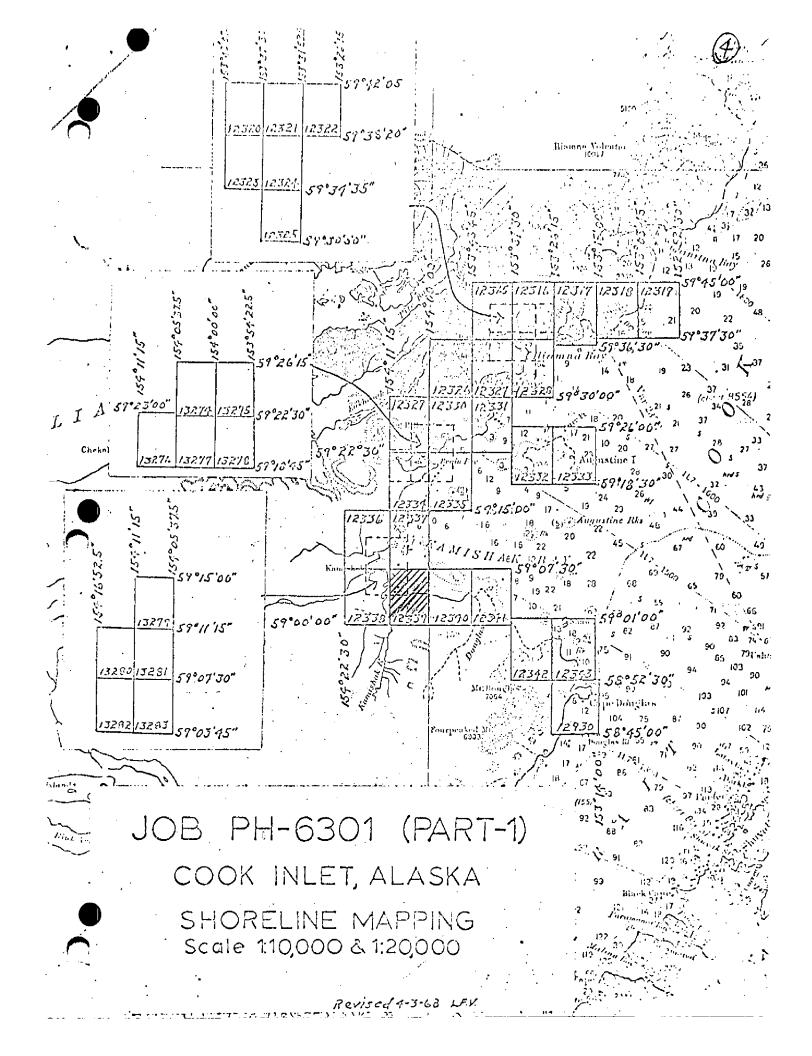


DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS "M" and "W" Cameras

OCCO "II" CITO "H" O		OTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	s	TAGE OF TI	DE
62W(c) 7438 thru 7441 62W 6428 thru 6436 62W 6610 thru 6615	29 June 1962 18 June 1962 18 June 1962		1:50,000 1:15,000 1:30,000	3.9 7.7 13.8		1
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				RATIO OF RANGES	MEAN RANGE	RANGE
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GORDINATE STATION:	Iliamna				12.3	14.5
SUBORDINATE STATION:						•
WASHINGTON OFFICE REVIEW BY	(IV):	J.B. Phi	lips	DATE:	7y 19	76
PROOF EDIT BY (IV):	·		/	DATE:	7	
NUMBER OF TRIANGULATION STA	TIONS SEARCHED FOR	(n):	RECOVERED:	IDENTIFIE	D:	
NUMBER OF BM(S) SEARCHED FOR	t (II) (RECOVERED:	IDENTIFIE	ED.	*
NUMBER OF RECOVERABLE PHOT	O STATIONS ESTABLIS	SHED (til):	None	-1		
NUMBER OF TEMPORARY PHOTO I	YDRO STATIONS EST	ABLISHED (III):	<u>-</u>			
			None			



5

SUMMARY

T-/2339 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.

T-12339

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for Hydro	July 1966	Superseded
Shoreline revised from reduction of 1:10,000 scale compilation of T-1328 3 (NW quarter)	June 1968	Superseded
Field Edit applied	Nov. 1968	

(7)

FIELD INSPECTION REPORT Map Manuscript T-12339 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.

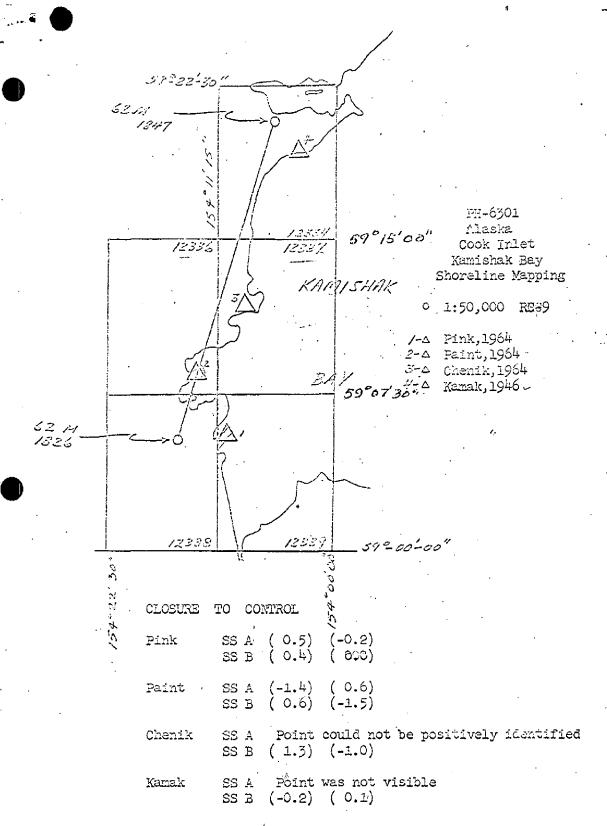
Respectfully submitted:

المجاولة المستمارين وتبرين

George M./Ball

Approved b

Henry P. Eichert, Acting Chief. Aerotriangulation Section



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COMPILATION REPORT T-12339

Statements in this report apply only to that part of this map which lies west of longitude 15½° 08° 00°. The part east of the above longitude was compiled in the Portland Photogrammetric Office in the spring of 1965 and is covered by a separate report.

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.

The gap between the 1965 bridge (west side of map) and the 1966 bridge (east side of map) was compiled graphically, using ratio prints.

No difficulty was encountered in tieing these two areas at the gap. See item 41.

32. CONTROL:

See Photogrammetric Plot Report, dated February 1, 1965, submitted with previous Descriptive Report for T-12339.

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

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was compiled graphically using ratio photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

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

36. OFFSHORE DETAILS:

Ledges, rocks and shallow lines were compiled graphically from 1:15,000 scale photography using the vertical projector and pass points common to the 1:20,000 scale ratio photos and the 1:15,000 scale contact photos. Where the compilation extended too far from the control, verification of position by ground methods was asked for in the NOTES FOR THE HYDROGRAPHER.

(l)

T-12339

41. REVISION OF ITEM 31:

The area of this map north of latitude 59° 03' 45" and west of longitude 154° 05' 37.5" was compiled in April 1968 at 1:10,000 scale as T-13283, which was photographically reduced to 1:20,000. Then T-12339 was revised to agree with T-13283. Refer to the report for T-13283.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Satisfactory junctions were made with map manuscripts T-12337 on the north, the east section of T-12339 on the east, and T-12338 on thewest. There is no contemporary survey on the south.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with the following maps:

USGS Reconnaissance Map ILIAMNA, ALASKA, scale 1:200,000, 9th edition, dated May 10, 1952.

USGS Quadrangles ILIAMNA (A-4) ALASKA and ILIAMNA (A-3) ALASKA, scale 1:63,360, dated 1964.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been 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-12339

AKUMWARVIK BAY

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. Sextant fixes 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 features marked in green on the ozalid are to be deleted. Red circles on the ozalid indicate the approximate location of signals used in the field edit work.

52 Adequacy of Compilation

Compilation of the manuscript was adequate and complete considering the quality of the photographs and the stage of the tide at the time of photography.

54 Recommendations

None.

56 Additional Information

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

Hydrographic signals used for field edit fixes are listed on a sheet attached to the Field Edit Ozalid. Geographic positions are given for each signal.

All fixes taken during the field edit are identified by number on the Field Edit Ozalid. The control and angles for each fix are listed on an attachment to the ozalid. This data is also a part of this report.

The field edit of the area north of Lat 59-06N is shown on the Field Edit Ozalid for sheet T-13283.

William R. Cameron LTJG-USESSA

William R. Camein

Photo Officer

Approved:

A. C. Holmes CDR-USESSA

Commanding Officer

FIXES FOR FIELD EDIT, SHEET T-12339 14

Fix No	CONTROL	Ӽ s		Fix No	CONTROL	Х, s
101	36	23-26		111	36	39-43
	<i>3</i> 5				35	
	24	68-45			24	94-31
/oZ.	36	25-48		112	35	46-04
	35				34	
	Z4	71-48			24	47-34
103	36	Z5-40		//3	43	137-03
	<i>3</i> 5				42	
	24	72-22			24	64-10
104	36	Z3~50		114	043	78~1 <i>9</i>
	<i>3</i> 5				42	
	24	71-14			24	125-52
105		23-16		115	43	108-08
	3 <i>5</i>				41	
	Z.4	70-25			24	95-21
106	36	40-00		116	36	27-15
	<i>35</i>				35	
	24	89-14			24	93-15
/07	36	45-33		117	36	25-47
	<i>3</i> 5				35	
	Z.4	84-70			24	91-21
108	36	44-46		118	36	24-45
	<i>35</i>				35	
	Z 4	88-34			24	92-21
109	36	43-19		119	36	24-31
	3 <i>5</i>	-	4		35	
	24	90-43			24	89-46
//0	36	40-37		120	34	42-17
	35				29	
	24	95-35			24	23-18

FIXES FOR FIELD EDIT, SHEETT-12339

Fix No.	CONTROL	¥. s	Fix No.	CONTROL	4 s
121	36	25-45	131	44	57-20
	35			43	
	24	101~09		42	24- 5 5
122	44	40-17	137	44	46-19
	43			43	
	42	77-13		47	21-07
123	44	50-Z8	133	35	64-06
	43			34	
	42	57-43		24	44-49
124	44	55-07	134		65-05
	43			34	
	42	50-31		24	47-57
175	44	75-0 9	135	36	50-01
	43			35	
	4 %	37-38		34	70 - 4 8
126 .	44	78-58	136	36	51-32
	43			35	
	47	06-56		34	61-24
127	44	77-29	137	36	49-05
	43			35	
	42	04-47		34	60-18
128	чч	62-19	138	36	46-57
	43			35	
	42	03~12		34	60-24
179	44	40-07	139	36	41~18
	43			35	
	42	01 - 39		24	106-12
130	44	63-36	140	36	38-42
	43			35	
	4 Z	ZZ-54		34	56-06

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FIXES FOR FIELD EDIT, SHEET T-12339 3/4

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141	36	36-17	151	D	\Box
	35				1
	34	62-34			•
142	36	6 3-40	157	36	62-16
	Z 9			34	
	24	41-15		24	59-16
143	36	62-24	153		34-38
	Z 9			34	
	24	40-39		29	45-21
144	36	59-25	154	36	70-21
	29			34	
	24	40-55		24	60-52
145	3/45	36-04	155	36	71-00
	29			34	
	24	41-50		24	62-09
146	35	36-48	156	44	35-43
	29			43	
	24	43-14		41	47-37
147	35	33-25	157	44	3 3 -40
	29			43	
	24	95-30		41	43-26
148	35	66-47	158	44	31-43
	29			43	
	24	67-30		41	43-11
149	3 <i>5</i>	118-51	159	44	30-08
	29			43	
	24	27-14		41	39-27
150	35	15-20	160	44	25-57
٤	34			42	
	24	134-25		24	50-03

FORM C&GS-1002

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

PHOTOGRAMMETRIC OFFICE REVIEW

T- 12339

1. PROJECTION AND GRIDS				
	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
СНВ	AKUMWARVI	K BAY	CHB	
CONTROL STATIONS				
5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	ATIONS OF	6. RECOVER AS OF LESS TH (Topographic	BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
СНВ		(Topogrupia:	X	x
8. BENCH MARKS	9. PLOTTING	F SEXTANT	1 10. PHOTOGRAMMETRIC	11. DETAIL POINTS
_	FIXES		PLOT REPORT	_
X	X		CHB	X
ALONGSHORE AREAS (Nautical			• •	
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
atro.	_		arm.	_
CHB	17. LANDMARK		CHB	X
16. AIDS TO NAVIGATION	17. LANDMARK	3	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
			ATT.	_
X	X		СНВ	X
PHYSICAL FEATURES		31		I
20, WATER FEATURES		ZI, NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
СНВ			СНВ	X
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
x	X		x	СНВ
CULTURAL FEATURES	•	,	•	
27. ROADS	T 20 5 5		I 88	20 OTHER CHI THRAI
	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES
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BOUNDARIES 31. BOUNDARY LINES MISCELLANEOUS 33. GEOGRAPHIC NAMES CHB 36. DISCREPANCY OVERLAY CHB 40. REVIEWER Charles A C. H. Bishop	37. DESCRIPTION KOB	34. JUNCTIONS	Z 32. PUBLIC LAND LINES Z CHB 38. FIELD INSPECTION PHOTOGRAPHS	35. LEGIBILITY OF THE MANUSCRIPT CHB 39. FORMS
BOUNDARIES 31. BOUNDARY LINES MISCELLANEOUS 33. GEOGRAPHIC NAMES CHB 36. DISCREPANCY OVERLAY CHB 40. REVIEWER Charles A C. H. Bishop 41. REMARKS (See attached shee	37. DESCRIPTION KOB	34. JUNCTIONS	TA 32, PUBLIC LAND LINES X CHB 38. FIELD INSPECTION PHOTOGRAPHS X [SUPERVISOR, REVIEW SECTION IN CO. RAUCK,	35. LEGIBILITY OF THE MANUSCRIPT CHB 39. FORMS
BOUNDARIES 31. BOUNDARY LINES MISCELLANEOUS 33. GEOGRAPHIC NAMES CHB 36. DISCREPANCY OVERLAY CHB 40. REVIEWER Charles A C. H. Bishop 41. REMARKS (See attached whee FIELD COMPLETION ADDITION 42. Additions and corrections	37. DESCRIPTION KQB S AND CORRECT furnished by the	34. JUNCTIONS VE REPORT LONS TO THE Me field complet:	TA 32, PUBLIC LAND LINES X CHB 38. FIELD INSPECTION PHOTOGRAPHS X [SUPERVISOR, REVIEW SECTION IN CO. RAUCK,	35. LEGIBILITY OF THE MANUSCRIPT CHB 39. FORMS
BOUNDARIES 31. BOUNDARY LINES MISCELLANEOUS 33. GEOGRAPHIC NAMES CHB 36. DISCREPANCY OVERLAY CHB 40. REVIEWER Charles A. C. H. Bishop 41. REMARKS (See attached chae FIELD COMPLETION ADDITION 42. Additions and corrections script is now complete exceeds	37. DESCRIPTION KQB S AND CORRECT furnished by the	34. JUNCTIONS VE REPORT LONS TO THE Me field complet:	CHB 38. FIELD INSPECTION PHOTOGRAPHS X I SUPERVISOR, REVIEW SECTION I I A. C. Rauck, ANUSCRIPT Ion survey have been applied to	35. LEGIBILITY OF THE MANUSCRIPT CHB 39. FORMS
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BOUNDARIES 31. BOUNDARY LINES MISCELLANEOUS 33. GEOGRAPHIC NAMES CHB 36. DISCREPANCY OVERLAY CHB 40. REVIEWER Charles A C. H. Bishop 41. REMARKS (See attached shee FIELD COMPLETION ADDITION 42. Additions and corrections script is now complete exceeded.	37. DESCRIPTION KQB (5) Shop (5) IS AND CORRECT furnished by the cept as noted under the cept as no	34. JUNCTIONS VE REPORT LONS TO THE Me field complet:	TA 32. PUBLIC LAND LINES X CHB 38. FIELD INSPECTION PHOTOGRAPHS X ISUPERVISOR, REVIEW SECTION I I A. C. Rauck, ANUSCRIPT Ion survey have been applied to	35. LEGIBILITY OF THE MANUSCRIPT CHB 39. FORMS N OR UNIT Jr.

T-12339.

Review Report T-12339 Shoreline Survey May 1976

61. General Statement

The northwest corner of this manuscript bounded by latitude $59^{\circ}03'45''$ and longitude $154^{\circ}05'37.5''$ will not be included in this report, since that area was compiled at 1:10,000 scale on manuscript T-13283. For reference to this area refer to the Descriptive Report for the larger scale map. A note stating this appears on the map.

In the first paragraph of the compilation report, reference was made to a separate report submitted by Portland Photogrammetric Office in 1965. That report was unavailable during the final review of this manuscript, and is not included in the Descriptive Report.

- 62. Comparison with Registered Topographic Surveys None
- 63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, item 46.

64. <u>Comparison with Contemporary Hydrographic Surveys</u>

H-9001 1:20,000 1968-1970

Comparison was made with the final reviewed hydrographic survey and the surveys were found to be 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

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division



T-12339 Ph-6301

48. GEOGRAPHIC NAME LIST:

AKUMWARVIK BAY
HORSESHOE COVE
KAMISHAK BAY
KAMISHAK RIVER
LITTLE KAMISHAK RIVER
MC NEIL HEAD
PINKIDULIA COVE

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

SCALE FACTOR None

SCALE OF MAP 1:20,000

DESCRIPTIVE REPORT ONTROL RECORD

PH-6301

PROJECT NO.

MAP T- 12339

DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) N.A. 1927 - DATUM (1527.7 (328.9) (74.8) 1567.3 (289.3) 776.9 (179.3) 882.8 FORWARD LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE 590 031 50.6508" 59 001 19.3720" 15h° 10' 48.7483" 1540 091 55.3194" N.A. 1927 N.A. 1927 DATUM Vol. IV p. 815 Vol. IV p. 815 SOURCE OF INFORMATION (INDEX) STATION SHAK, 1964 PINK 1964

21

May 22, 1968

B. Wilson

May 5, 1968

A. L. Shands

COMPUTED BY

DATE

CHECKED BY

DATE

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