

Original

T-12330

T-12330

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:
~~Field No.~~ FINAL Office No. T-12330
Field edited map Edition No. 1

LOCALITY

State Alaska

General locality Kamishak Bay, Cook Inlet

Locality Kirschner Lake

1967 to 1971

CHIEF OF PARTY

J. Bull, RADM, Director, Atlantic Marine Center

LIBRARY & ARCHIVES

DATE _____

DESCRIPTIVE REPORT - DATA RECORD

T - 12330

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, Director

INSTRUCTIONS DATED (II) (III):

OFFICE	March 18, 1965	Part I
OFFICE	February 10, 1966	Supplement I
OFFICE	May 5, 1967	Supplement II
OFFICE	December 27, 1967	Supplement III

METHOD OF COMPILATION (III):

Wild B-8 Plotter

MUSCRIPT SCALE (III):

1:20,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:10,000 pantographed to 1:20,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

MAY 1976

DATE REGISTERED (IV):

R. CATDR

GEOGRAPHIC DATUM (III):

N. A. 1927

VERTICAL DATUM (III):

MHW

~~MSL~~ EXCEPT AS FOLLOWS:
 Elevations shown as (25) refer to mean high water
 Elevations shown as (5) refer to sounding datum
 i.e., ~~MSL~~ mean lower low water

REFERENCE STATION (III):

KIRSCHNER, 1967 ✓

LAT.:

59° 25' 10.175" (314.9m) ✓

LONG.:

153° 53' 07.112" (112.2m) ✓

ADJUSTED
 UNADJUSTED

PLANE COORDINATES (IV):

1,979,779.31 ft x = 521,361.98 ft

STATE

Alaska ✓

ZONE

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): None	DATE:
--	-------

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

Air Photo Compilation - July 9, 1967 (date of photography)

PROJECTION AND GRIDS RULED BY (IV): A. Bethea	DATE 10/24/67
---	-----------------------------

PROJECTION AND GRIDS CHECKED BY (IV): L. F. Van Scoy	DATE 10/25/67
--	-----------------------------

CONTROL PLOTTED BY (III): J. Steinberg	DATE 12/12/67
--	-----------------------------

CONTROL CHECKED BY (III): A. Shands	DATE 12/12/67
---	-----------------------------

RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): P. Dempsey	DATE 11/67
--	--------------------------

STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY A. Shands	DATE 12/17/67
	CONTOURS Inapplicable	DATE

MANUSCRIPT DELINEATED BY (III): A. Shands	DATE 12/20/67
---	-----------------------------

SCRIBING BY (III):	DATE
--------------------	------

PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. E. Smith	DATE 03/01/68
---	-----------------------------

REMARKS:

Field Edit by Alan P. Vonderohe July 1971

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

USC&GS Type "M"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
67-M-864 thru 866	July 9, 1967	0929	1:60,000	2.2 ft. below MLLW

PREDICTED TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: <u>Seldovia, Alaska</u>		15.4	17.8
SUBORDINATE STATION: <u>Iliamna Bay</u>		12.3	14.5
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

J. B. Phillips

DATE:

March 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):

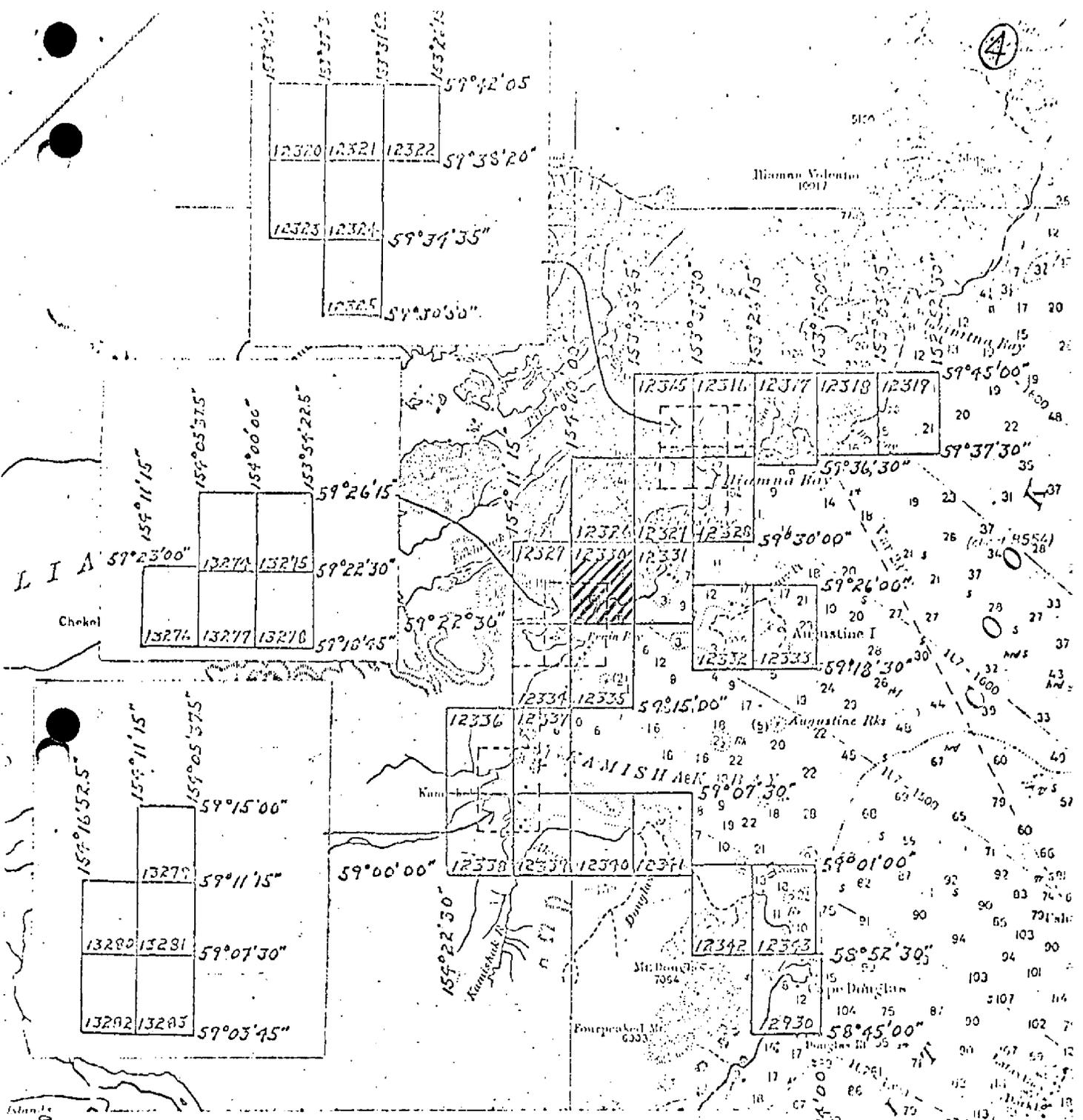
0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

0

REMARKS:

4



JOB PH-6301 (PART-1)

COOK INLET, ALASKA

SHORELINE MAPPING

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

Revised 4-3-68 LEV

SUMMARY

T-12330 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 1971

Final review was accomplished at the Rockville Office in March 1976

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

T-12330

COMPILATION RECORD

COMPLETION DATE

REMARKS

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for Hydro	December 1967	<i>Superseded</i>
<i>Shoreline revised from reduction of 1:10,000 scale compilation (Western half only)</i>	<i>June 1968</i>	<i>Superseded</i>
<i>Field Edit applied</i>	<i>Nov. 1972</i>	

FIELD INSPECTION

~~RE~~-T-12330

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
Job PH-6301
Kamishak Bay, Alaska

January 22, 1968

21. Area Covered

This report covers the northern part of Kamishak Bay, Alaska, consisting of thirteen (13) 1:20,000 scale map manuscripts -- T-12315 thru T-12319; T-12326 thru T-12331, T-12334 and T-12335, and six (6) 1:10,000 scale map manuscripts -- T-12320 thru T-12325.

22. Method

Analytic aerotriangulation methods were used to bridge strips 1, 2 and 3 at 1:60,000 scale using premarked and field identified control. Numerous tie points were located to control strips 41, 42 and 43, which were bridged by stereoplanigraph.

The attached sketch of strips bridged shows the placement of triangulation used in the final strip adjustments. Closures to control are shown on the IBM readouts along with all the bridge points.

23. Adequacy of Control

Horizontal control was adequate for bridging strips 1, 2 and 3. Strips 41, 42 and 43 were bridged using tie points and are adequate. The premarked paneling at Station OIL, 1913 was removed prior to photography and could not be identified. Station TENDER, 1967 fell off of model and was not used. SKIN, 1967, Subpoint A and Subpoint B, were too poor to read and were not used in the adjustment.

24. Supplemental Data

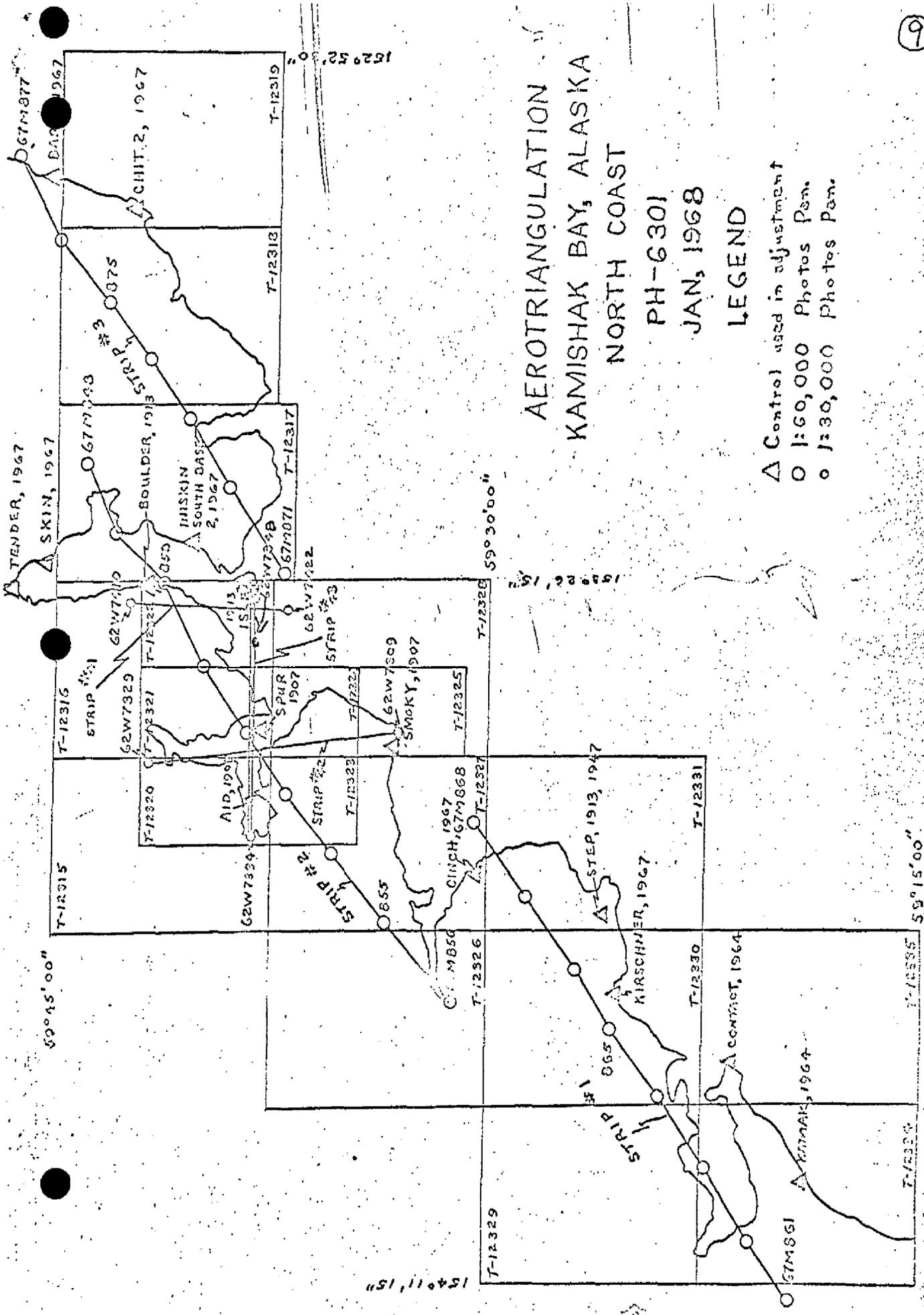
Vertical control needed for the adjustment was taken from USGS quadrangles.

25. Photography

The definition and quality of the RC-9 and RC-8 photography were good. Ratio prints have been ordered to compilation scale.

Submitted by:
P. J. Dempsey
P. J. Dempsey

Approved and forwarded:
H. P. Eichert
H. P. Eichert, Chief
Aerotriangulation Section



AEROTRIANGULATION
 KAMISHAK BAY, ALASKA
 NORTH COAST
 PH-6301
 JAN, 1968
 LEGEND

- △ Control used in adjustment
- 1:60,000 Photos Pan.
- 1:30,000 Photos Pan.

COMPILATION REPORT
T-12330

31. DELINEATION:

The Wild B-8 was used. See item 41. (page 11)

Photography was adequate.

There was no field inspection.

32. CONTROL:

See ~~Preliminary~~ Photogrammetric Plot Report.

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:

There was no shoreline inspection.

The mean lower low water was delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

38. CONTROL FOR FUTURE SURVEYS:

None

T-12330

41. REVISION OF ITEM 31:

The area of this map south of latitude $59^{\circ} 26' 15''$ and west of longitude $153^{\circ} 54' 22.5''$ was compiled in May 1968 at 1:10,000 scale as T-13275, which was photographically reduced to 1:20,000. Then T-12330 was revised to agree with T-13275. Refer to the report for T-13275.

39. JUNCTIONS:

Junctions are in agreement with T-12329 to the west, T-12335 to the south, T-12331 to the east, and T-12326 to the north.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle ILIAMNA (B-3), Alaska, scale 1:63,360, dated 1954.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with USC&GS Chart No. 8554, scale 1:200,000, 9th edition, dated May 10, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHART IMMEDIATELY:

None

ITEMS TO BE CARRIED FORWARD:

None

Approved by:

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

Submitted by:

A. L. Shands

A. L. Shands
Cartographic Technician

March 1968

PH-6301
T-12330

49. NOTES FOR THE HYDROGRAPHER:

The MHWL was delineated by office interpretation of the photographs. Due to overhanging bluffs, identification of the MHWL was difficult, therefore, the MHWL should be checked carefully by the Field Editor and/or hydrographer.

The MLLWL, ledges, rocks, reefs, foul and shoal area were also shown from office interpretation of the photographs and should be verified, to determine their existence and accuracy.

Refer to Field Edit Ozalid.

F-12330
FIELD EDIT REPORT
NOAA SHIP PATHFINDER
July 1971 FIELD SEASON

I have examined these reports and data and found them to be correct and complete.


H.R. Lippold
CAPT. NOAA
Commanding Officer
NOAA Ship PATHFINDER

51 Methods

The field edit of this map was done in accordance with photogrammetric instructions and project instructions to the Commanding Officer, NOAA SHIP PATHFINDER, dated 26 March 1971. A gently sloping beach made surf landings in skiffs a necessity when shore inspection was required. Sextant fixes were used to verify and locate objects that could not be seen or positively verified on the photographs.

All deletions, additions, verification 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 the signals used in the field work. Cross references on the field edit ozalid to the photographs are also a part of the compilation.

52 Adequacy of Compilation

Compilation of the manuscript was adequate and complete for all areas within the boundaries indicated on the field edit ozalid.

54 Recommendations

None

56 Additional Information

Time meridian 135°W was used for all the work on this sheet.

All photogrammetric and ground survey signals used during the project are listed on a sheet attached to the field edit ozalid and are also included in this report. Signals used for field edit fixes are included in the list.

All fixes taken during the field edit are identified by number on the field edit ozalid and also on the mylar prints. A running tabulation of this data appears on the field edit ozalid.

Alan P. Vonderohe
Alan P. Vonderohe
LTJG, NOAA
Photo Officer

Horizontal Control

Bruin Bay, Kamishak Bay

<u>SIGNAL NAME</u>	<u>LATITUDE</u> meters	<u>LONGITUDE</u> meters	<u>ORIGIN OF POSITION</u>	
			<u>photo</u>	<u>triangulation station</u>
001	59 23 0307.0	153 56 0379.0	T-13275	
002	59 23 1629.0	153 57 0343.0	T-13275	
003	59 23 0940.0	153 58 0313.0	T-13275	
004	59 22 0916.0	154 00 0337.0	T-13274	
006	59 23 0522.0	154 02 0272.0	T-13274	
008	59 22 0891.0	154 04 0343.0	T-13274	
009	59 21 1207.0	154 03 0360.0	T-13277	
010	59 21 1763.0	154 03 0450.0	T-13277	
011	59 20 1650.0	154 03 0713.0	T-13277	
012	59 21 1230.0	154 02 0459.0	T-13277	
013	59 21 0534.0	154 02 0027.0	T-13277	
014	59 22 0098.0	154 01 0355.0	T-13277	
015	59 21 0710.0	153 59 0642.0	T-13278	
016	59 22 0537.0	153 59 0243.0	T-13278	
100	59 23 1550.7	153 58 0796.3	T-13275	
101	59 23 0173.0	153 59 0698.7	T-13275	
102	59 22 1523.5	153 59 0432.2	T-13275	
103	59 21 1816.7	153 58 0707.7	T-13278	
104	59 21 1450.6	153 57 0364.3	T-13278	
Contact	59 21 0909.0	153 57 0043.3	T-13278	CONTACT
BAY	59 23 0451.4	153 56 0594.9	T-13275	BAY (1913)
KIRSCHNER	59 25 0314.2	153 53 0111.9	T-12330	KIRSCHNER (1967)
200	59 24 0727.4	153 55 0193.6	T-13275	

PHOTOGRAMMETRIC OFFICE REVIEW
T. 12330

1. PROJECTION AND GRIDS RES		2. TITLE RES		3. MANUSCRIPT NUMBERS RES		4. MANUSCRIPT SIZE RES	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RES			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 Bridge (W.O.)		11. DETAIL POINTS Wild B-8	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE RES		13. LOW-WATER LINE RES		14. ROCKS, SHOALS, ETC. RES		15. BRIDGES X	
16. AIDS TO NAVIGATION X		17. LANDMARKS X		18. OTHER ALONGSHORE PHYSICAL FEATURES RES		19. OTHER ALONGSHORE CULTURAL FEATURES X	
PHYSICAL FEATURES							
20. WATER FEATURES RES			21. NATURAL GROUND COVER RES			22. PLANETABLE CONTOURS X	
23. STEREOSCOPIC INSTRUMENT CONTOURS X		24. CONTOURS IN GENERAL X		25. SPOT ELEVATIONS X		26. OTHER PHYSICAL FEATURES RES	
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 RES			34. JUNCTIONS RES			35. LEGIBILITY OF THE MANUSCRIPT RES	
36. DISCREPANCY OVERLAY X		37. DESCRIPTIVE REPORT RES		38. FIELD INSPECTION PHOTOGRAPHS X		39. FORMS RES	
40. REVIEWER <i>R. E. Smith</i> R. E. Smith				SUPERVISOR, REVIEW SECTION OR UNIT A. G. 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 <i>Charles Parker 11-29-72</i> <i>Susan Kumer 12-14-72</i>				SUPERVISOR <i>A.C. Rauck, Jr.</i>			
43. REMARKS <i>Field edit applied from Field edit 02alid T-12330 (1:20,000)</i>							

Review Report T-12330
Shoreline Survey
April 1976

61. General Statement

During final review it was determined that discrepancies exist between this 1:20,000 scale manuscript and the 1:10,000 scale manuscript, T-12375, that covers a portion of this same area. The 1:10,000 scale map has been reviewed and a review report has been written. To avoid unnecessary repetition, this same area was not ~~revised~~^{reviewed} on T-12330. Where the same area is covered by a 1:10,000 scale map, the larger scale map and its accompanying Descriptive Report must be used for reference. A note stating this ~~appears~~^{appears} on the manuscript.

This review report will cover only that portion of T-12330 which extends East from Longitude 153°54'22.5" at approximately the Kirschner Lake Waterfall.

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-9072 1:20,000 1969-1971

Comparison has been made with the final reviewed hydrographic survey H-9072. Differences exist in elevations of rocks due to the hydrographers' use of actual ~~table~~^{tide} readings in their computations. Many of the outer limits of ledge and foul were removed from the Class I manuscript during review to avoid conflicting with depth curves and soundings that had been developed by the hydrographer.

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

The rock at approx. Lat. $59^{\circ}23'46''$ Long. $153^{\circ}55'30''$ has been removed from the manuscript. Hydrographer sounded area at minus mean lower low water tide stage and did not find a rock at this location. The data available was insufficient for plotting during final review (no signal position, weak fix). Rock was removed from map, negative and copies, after conference with Hydro-survey Quality Control Section. Charts will remove the rock at the next printing.

J. Phillips
8/5/76

May 26, 1967

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6301 (Cook Inlet, Alaska)

T-12330

Kamishak Bay

Kirschner Lake

Sunday Creek

Approved by:

Prepared by:

A. Joseph Wraight
Chief Geographer


Frank W. Pickett
Cartographic Technician

