

T-12334

Original

T-12334

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-12334
Field edited map Edition 1	
LOCALITY	
State	Alaska
General locality	Kamishak Bay, Cook Inlet
Locality	Amakdedori
1962 - 1968, 1971	
CHIEF OF PARTY	
J. Bull, RADM, Director, Atlantic Marine Center	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T - 12334

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, USESSA, 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		
USCRIPT SCALE (III):  1:20,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):  1:8,333 pantographed to 1:20,000 scale
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 <del>XXXXXXXXXX</del> EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., <del>XXXXXXXXXX</del> mean lower low water
REFERENCE STATION (III):  KAMAK 1964		
LAT.:  59° 18' 41.7527"(1292.0M)	LONG.:  154° 05' 26.5475"(420.0M)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV):  1,940,341.11 ft.      x =    483,051.38 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

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FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Air Photo Compilation Date of Photography: June 1962 & July 1967		
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		March 31, 1967
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		April 3, 1967
CONTROL PLOTTED BY (III):		DATE
J. Steinberg		May 16, 1967
CONTROL CHECKED BY (III):		DATE
B. Barge		May 16, 1967
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
George M. Ball P. J. Dempsey		May 1966 November 1967
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	A. L. Shands	June 2, 1967
	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
A. C. Rauck, Jr.		June 9, 1967
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
R. E. Smith		February 29, 1968

REMARKS:

Field edit by Alan P. Vonderohe, July 1971

DESCRIPTIVE REPORT - DATA RECORD

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CAMERA (KIND OR SOURCE) (III):

USC&GS Camera Type "M"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62M-1841, 1844 & 1847 67M-862 & 863	June 18, 1962 July 9, 1967	1445 0929	1:50,000 1:60,000	2.6572 14.1 ft. MLLW 2.2' below MLLW

PREDICTED TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING 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:

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:



SUMMARY

T-12334 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 1971

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.

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COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro (partially completed)	June 1967	Superseded
Alongshore area for hydro (completed)	December 1967	Superseded
Shoreline revised from reduction of 1:10,000 scale compilation	June 1968	Superseded
Field edit applied Compilation complete	December 1972	

FIELD INSPECTION REPORT  
Project PH-6301  
T-12334

There was no field inspection prior to compilation.

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

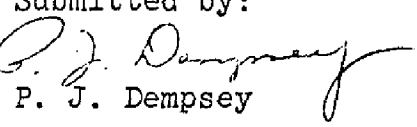
Horizontal control was adequate for bridging strips 1, 2 and 3. Strips 41, 42 and 43 were bridged using tie points and are adequate. The premarked paneling at Station OIL, 1913 was removed prior to photography and could not be identified. Station TENDER, 1967 fell off of model and was not used. SKIN,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

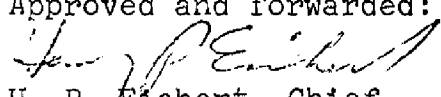
24. Supplemental Data

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

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



COMPILATION REPORT  
T-12334

31. DELINEATION: (Refer to item 41, page 11)

The Wild B-8 was used.

Color photographs were used as an aid in the delineation of ledges, rocks, and shallow areas.

Due to a shadow from a high bluff between latitude  $59^{\circ} 19'$ , longitude  $154^{\circ} 03'$  and latitude  $59^{\circ} 20'$ , longitude  $154^{\circ} 01'$  the MHWL could not be seen, therefore an approximate MHWL has been shown. See item 41.

Photography was adequate.

There was no field inspection.

32. CONTROL:

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline and alongshore details were delineated by office interpretation of photographs.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

None

T-12334

41. REVISION OF ITEM 31:

The area of this map north of latitude  $59^{\circ} 18' 45''$  was compiled in May 1968 at 1:10,000 scale as T-13276 and T-13277 which were photographically reduced to 1:20,000. Then T-12334 was revised to agree with the reductions. Refer to the reports for T-13276 and T-13277.

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

A satisfactory junction was made with T-12337 to the south.

There is no contemporary survey to the west.

40. HORIZONTAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with USGS Quadrangle Iliamna, Alaska, dated 1952, scale 1:250,000.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with C&GS Chart 8554, scale 1:200,000, 9th edition, May 10, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

ITEMS TO BE CARRIED FORWARD:

None

Approved:

Submitted:

J. Bull, RADM, Director  
Atlantic Marine Center

*Lawrence L. Graves*  
Lawrence L. Graves  
Cartographic Technician

Feb. 1968

T-12334  
Ph-6301

49. NOTES FOR THE HYDROGRAPHER:

The shoreline from approximately  $59^{\circ} 19' 00''$  to the north is very approximate. All rocks, shallow areas, ledges, and all offshore areas were compiled graphically with a vertical projector using color photographs. The color photographs were controlled only by pass points common to photographs used to compile the planimetry.

The above mentioned areas should be examined with extreme care to determine their existence and accuracy.

FIELD EDIT REPORT

SHEET T-12334

LOWER COOK INLET

(KAMISHAK BAY)

JULY 1971

PH

PH-6301

NOAA SHIP PATHFINDER

CAPT. H.R. LIPPOLD JR., CMDG.

## 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 and Raydist positions 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 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 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.

The reefs south of Latitude 59° 17' 00" N., were located by the 1968 hydrography (PF 20-1-68), and were not field edited in 1971.

*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 0879.0	T-13275	
002	59 23 1629.0	153 57 0343.0	T-13275	
003	59 23 0940.0	153 58 0613.0	T-13275	
004	59 22 0916.0	154 00 0887.0	T-13274	
006	59 23 0622.0	154 02 0272.0	T-13274	
008	59 22 0891.0	154 04 0548.0	T-13274	
009	59 21 1207.0	154 03 0860.0	T-13277	
010	59 21 1768.0	154 03 0460.0	T-13277	
011	59 20 1660.0	154 03 0715.0	T-13277	
012	59 21 1280.0	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	
000	59 23 1550.7	153 58 0796.8	T-13275	
001	59 23 0173.0	153 59 0698.7	T-13275	
002	59 22 1523.5	153 59 0482.2	T-13275	
003	59 21 1816.7	153 58 0707.7	T-13278	
004	59 21 1450.6	153 57 0664.3	T-13278	
Contact	59 21 0909.0	153 57 0043.3	T-13278	CONTACT
PAY	59 23 0461.4	153 56 0694.9	T-13275	BAY (1913)
KIRSCHNER	59 25 0314.2	153 53 0111.9	T-12330	KIRSCHNER (1967)
000	59 24 0727.4	153 55 0193.6	T-13275	

## PHOTOGRAMMETRIC OFFICE REVIEW

T-12334

1. PROJECTION AND GRIDS <b>RES</b>	2. TITLE <b>RES</b>	3. MANUSCRIPT NUMBERS <b>RES</b>	4. MANUSCRIPT SIZE <b>RES</b>
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY <b>RES</b>	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) <b>RES</b>		7. PHOTO HYDRO STATIONS <b>X</b>
8. BENCH MARKS <b>X</b>	9. PLOTTING OF SEXTANT FIXES <b>X</b>	10. PHOTOGRAMMETRIC PLOT REPORT <b>Bridge W.O.</b>	11. DETAIL POINTS <b>Wild B-8</b>
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE <b>*RES, ACR</b>	13. LOW-WATER LINE <b>RES</b>	14. ROCKS, SHOALS, ETC. <b>*RES, ACR</b>	15. BRIDGES <b>X</b>
16. AIDS TO NAVIGATION <b>X</b>	17. LANDMARKS <b>X</b>	18. OTHER ALONGSHORE PHYSICAL FEATURES <b>*RES, ACR</b>	19. OTHER ALONGSHORE CULTURAL FEATURES <b>X</b>
PHYSICAL FEATURES			
20. WATER FEATURES <b>*RES, ACR</b>	21. NATURAL GROUND COVER <b>RES</b>		22. PLANETABLE CONTOURS <b>X</b>
23. STEREOSCOPIC INSTRUMENT CONTOURS <b>X</b>	24. CONTOURS IN GENERAL <b>X</b>	25. SPOT ELEVATIONS <b>X</b>	26. OTHER PHYSICAL FEATURES <b>X</b>
CULTURAL FEATURES			
27. ROADS <b>X</b>	28. BUILDINGS <b>X</b>	29. RAILROADS <b>X</b>	30. OTHER CULTURAL FEATURES <b>X</b>
BOUNDARIES			
31. BOUNDARY LINES <b>X</b>		32. PUBLIC LAND LINES <b>X</b>	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES <b>RES</b>	34. JUNCTIONS <b>RES</b>		35. LEGIBILITY OF THE MANUSCRIPT <b>RES</b>
36. DISCREPANCY OVERLAY <b>X</b>	37. DESCRIPTIVE REPORT <b>RES</b>	38. FIELD INSPECTION PHOTOGRAPHS <b>X</b>	39. FORMS <b>RES</b>
40. REVIEWER <i>R. E. Smith</i> <b>R. E. Smith</b>		SUPERVISOR, REVIEW SECTION OR UNIT <b>A. C. Rauck, Jr.</b>	
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>C. Blood</b> <b>11/21/72</b> <b>S. Kumer</b> <b>12/72</b>		SUPERVISOR <b>A.C. Rauck, Jr.</b>	
43. REMARKS  <b>* RES did the review from latitude 59° 19' north</b> <b>ACR did the review from latitude 59° 19' south</b> <b>Field edit on 1:10,000 scale manuscripts T-13276, T-13277</b> <b>Field edit ozalids, F.E. report and ozalid T-12334</b>			

Review Report T-12334  
Shoreline Survey  
April 1976

61. General Statement

This report covers only the area from 59°18'45" to the south. For reference to detail north of that latitude, refer to the 1:10,000 scale sheets T-13276 and T-13277 and to their respective Descriptive Reports. A note stating this appears on the manuscript.

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

H-9001 1:20,000 1968-1970

Comparison has been made with both of the final reviewed hydrographic surveys. Differences exist in elevations of rocks, due to the hydrographer's use of actual tide readings. Reef and ledge limits were removed during review where they conflicted with the hydrography.

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:

*AKL Gordon*  
Chief, Photogrammetric Branch *DB*

*James Collier*  
Chief, Coastal Mapping Division

May 26, 1967

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6301 (Cook Inlet, Alaska)

T-12334

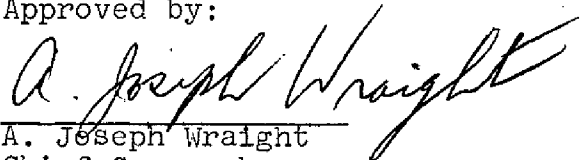
Amakdedori Creek

Bruin Bay

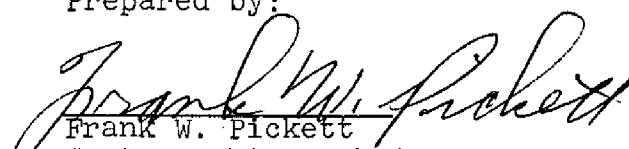
Cook Inlet

Kamishak Bay

Approved by:

  
A. Joseph Wraight  
Chief Geographer

Prepared by:

  
Frank W. Pickett  
Cartographic Technician

MAP T- 12334 PROJECT NO. PH-6301 SCALE OF MAP 1:20,000 SCALE FACTOR None

[illegible]

CHECKED BY

DATE \_\_\_\_\_

A. C. Rauck, Jr.

June 8, 1967

B. Wilson

May 22, 1968

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