

T-12328

T-12328

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric).....

Job No. ...PH-6301..... Map No. T-12328.....

Classification No. Final Edition No.1.....

Field Edited Map

LOCALITY

State Alaska.....

General Locality Kamishak Bay-Cook Inlet.....

Locality ..White Gull Island.....

1962 TO 1972

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

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PROJECT NO. (II): PH-6301		
FIELD OFFICE (III): Atlantic Marine Center		CHIEF OF PARTY J. Bull, Director, AMC
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center		OFFICER-IN-CHARGE J. Bull, Director, AMC
INSTRUCTIONS DATED (II) (III): March 18, 1965 - Office, Part I Feb. 10, 1966 - Office, Supplement I May 5, 1967 - Office, Supplement II Dec. 27, 1967 - Office, Supplement III		
METHOD OF COMPILATION (III): Wild B-8 Plotter		
MANUSCRIPT SCALE (III): 1:20,000, a reduction of T-12324 and T-12325	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): T-12324 and T-12325 1:5000 pantographed to 1:10,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.	DATE: MAR 29 1976	DATE REGISTERED (IV): N. Francis
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): SMOKY 1967		
LAT.: 59°33'14.635" 452.9M	LONG.: 153°37'02.890" 45.4M	<input type="checkbox"/> ADJUSTED <input checked="" type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): Y = 2,029,146.83 ft. X = 570,965.75 ft.		STATE Alaska
		ZONE 5
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.		

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FIELD INSPECTION BY (II): None <i>Limited to the identification of horizontal control</i>		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): June 1962 Air photo compilation, office interpretation		
PROJECTION AND GRIDS RULED BY (IV): A. Bethea		DATE: 10/24/67
PROJECTION AND GRIDS CHECKED BY (IV): L.F. VanScoy		DATE: 10/25/67
CONTROL PLOTTED BY (III): L.O. Neterer, Jr.		DATE: 11/20/67
CONTROL CHECKED BY (III): B. Barge		DATE: 11/20/67
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): P.J. Dempsey		DATE: 1/22/68
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY A. Shands	DATE: 6/10/68
	CONTOURS	DATE:
MANUSCRIPT DELINEATED BY (III): A. Shands		DATE: 6/10/68
SCRIBING BY (III):		DATE:
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): L.L. Graves		DATE: 3/14/69
REMARKS: Field edit by: M.C.Grunthal and T.R.Crane 7 & 8/72		

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CAMERA (KIND OR SOURCE) (III):

USC&GS Type "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62W6285-6289	6/18/62	1212	1:15,000	2.6' above MLLW
62W6302-6303	6/18/62	1217	1:15,000	3.5' above MLLW
62W6306-6312	6/18/62	1225	1:15,000	3.5' above MLLW
62W6314-6316	6/18/62	1230	1:15,000	3.9' above MLLW
62W7309, 7312, 7315, 7318	6/29/62	1534	1:30,000	6.0' above MLLW
62W7340-7343	6/29/62	1549	1:30,000	5.5' above MLLW

Predicted TIDE (III)

diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Seldovia, Kachemak Bay, Alaska		15.4	17.8
SUBORDINATE STATION: Iliamna Bay, Alaska		12.3	14.5
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

J. B. Phillips

DATE:

February 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):

None

RECOVERED:

None

IDENTIFIED:

None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

Revised 4-3-68 L.F.V.

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SUMMARY

T-/2328 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 & August, 1972*

Final review was accomplished at the Rockville Office in *February 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
Compilation complete pending field edit		
Alongshore area for hydro transferred from 1:10,000 manu- scripts T-12324 and T-12325	March 1969	Superseded
Field edit transferred from the above listed manuscripts, compi- lation complete	March 1974	

(7)

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.

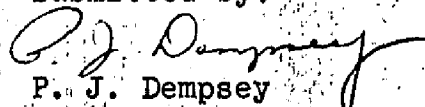
24. Supplemental Data

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


25. Photography

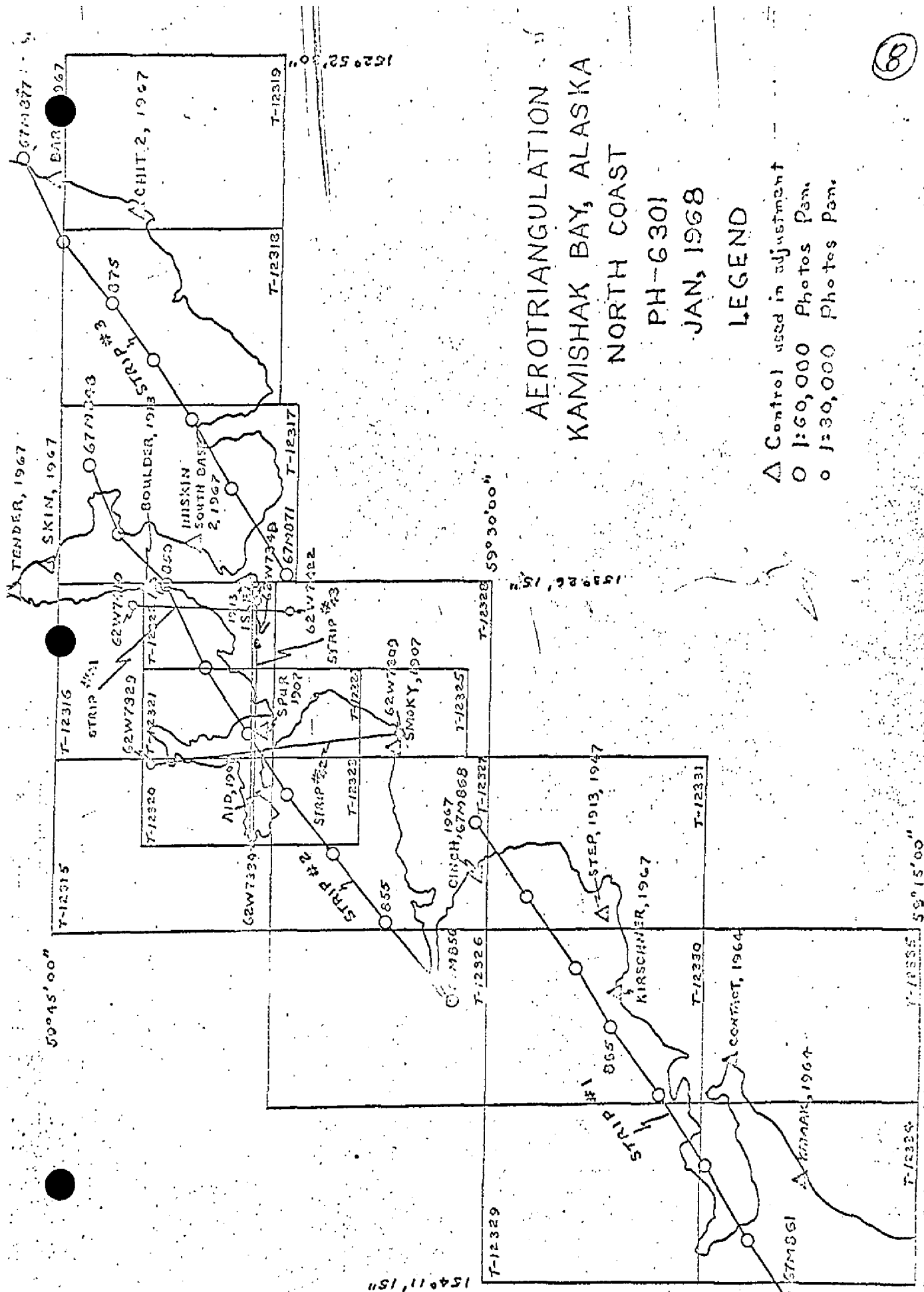
The definition and quality of the RC-9 and RC-8 photography were good. Ratio prints have been ordered to compilation scale.

Submitted by:


P. J. Dempsey

Approved and forwarded:


H. P. Eichert, Chief
Aerotriangulation Section



Compilation Report
Job PH-6301
Map Manuscript T-12328

31. Delineation

The delineation of this sheet was traced from the photo reduction of T-12324 and T-12325 which are 1:10,000 scale.

32. *see next page*

32.
CONTROL

Refer to Photogrammetric Plot Report, dated January 22, 1968.

Difficulty in holding control established by stereoplanigraph bridging of strips 41, 42, and 43 was encountered, initially. They were returned to the Bridging Section and their subsequent re-adjustment resulted in "Revisions" for strips 41 and 43.

Strip 42 had been compiled with little or no difficulty concerning the control. Although strip 41 also was compiled utilizing the original Bridge Strip, the comparison between the original and "Revised" strip #41 indicated a maximum change of approximately 0.3mm which proved to be of an insignificant effect. The compilations of these two strips were summarily considered to be of sufficient accuracy. Both of these strips were oriented in a general north-south direction.

The results of the "Revision" of strip 43 proved to be of a major change, and inasmuch as this strip was oriented in an east-west direction, intersecting both strips 41 and 42, an attempt to tie these together at their common models resulted in an error of tie-in between drilled pass points of strip 43 and shoreline pass points common to all strips.

When model 62W-7343 and 7346, of strip #43 was set, it was found that six of the seven drilled pass points would hold within tolerance, but none of the adjoining shoreline pass points from strips 41 and 42 would hold. When this model was re-scaled to all common shoreline points, the drilled points would not hold.

This same condition existed when model 62W-7334 and 7337 was set. Drilled pass points held within tolerance, but no common shoreline pass points between strip 42 and this model would hold.

It was evident at this time that no model work could be compiled from strip 43.

To further substantiate our decision, all five manuscripts were joined and a modified radial plot consisting of several processed ratio photos of each of strips 41, 42, and 43 was laid.

It was noted during this plot, that the tie points (from the stereoplanigraph bridges), and the field identified triangulation control, would hold well with the common shoreline pass points, but the drilled points would not. (A few of the drilled points at or near sea level were noticeably closer than those at the higher elevations.)

It was concluded therefore that strips 41 and 42 were tied together well and were geographically correct, and that a graphic solution and compilation of the two models in question on strip 43 could be made using the common shoreline pass points.

33. Supplemental Data - None

34. Contours

Contours are inapplicable. Drainage was compiled by office interpretation.

35. Shoreline and Alongshore Details

The shoreline and alongshore details were delineated by office interpretation from bridging compilation photos.

36. Offshore Details

The offshore detail was compiled by office interpretation from the 1:15,000 scale offshore photos which were computed to be at a higher tide than the compilation photos but they showed more offshore detail and were closer to the MLLW line. *Refer to Item 61 in the Review Report for T-12324 and T-12325*

37. Landmarks and Aids - None

38. Control for Future Surveys - None

39. Junctions

T-12328 junctions with T-12327 (1:20,000) and T-12323(1:10,000) on the west and T-12316(1:20,000) on the north and T-12317 (1:20,000) in the extreme northeast corner, the rest of the east and south have no contemporary surveys.

40. Horizontal and Vertical Accuracy - See Item 32.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

A comparison has been made with USGS Quadrangle Iliamna (C-2), Alaska, scale 1:63,330, dated 1958.

47. Comparison with Nautical Charts

A comparison has been made with USC&GS Charts 8554, 9th ed. (Cook Inlet, Southern Part) scale 1:200,000, dated May 10, 1965 and 8665, Iliamna Bay Alaska, 4th ed. Jan. 13, 1964 (1:20,000).

Items to be Applied to Nautical Charts Immediately: None

Items to be Carried Forward: None

Submitted by,

Lowell O. Neterer, Jr.
Carto Tech
March 1969

Approved:

J. Bull, Director, AMC

PHOTOGRAMMETRIC OFFICE REVIEW

~~T-10342~~ = T-12328

1. PROJECTION AND GRIDS LLG	2. TITLE LLG	3. MANUSCRIPT NUMBERS LLG	4. MANUSCRIPT SIZE
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY LLG	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT LLG	11. DETAIL POINTS XX
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE LLG & CB	13. LOW-WATER LINE LLG	14. ROCKS, SHOALS, ETC. LLG & CHB	15. BRIDGES XX
16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES LLG	19. OTHER ALONGSHORE CULTURAL FEATURES
PHYSICAL FEATURES			
20. WATER FEATURES		21. NATURAL GROUND COVER XX	22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES
CULTURAL FEATURES			
27. ROADS XX	28. BUILDINGS LLG & CHB	29. RAILROADS XX	30. OTHER CULTURAL FEATURES XX
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES LLG		34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT LLG
36. DISCREPANCY OVERLAY LLG	37. DESCRIPTIVE REPORT LLG	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS LLG
40. REVIEWER L.L. Graves		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 C. Blood March 1974 Reviewed by: R.R. White March 1974		SUPERVISOR A.C. Rauck, Jr.	
43. REMARKS Field edit applied from: Field edit which was applied to T-12324 & T-12325, 1:10,000 scale was transferred to this manuscript.			

Review Report T-12328
Shoreline Survey
February 1976

Two 1:10,000 scale manuscripts, T-12324 and T-12325 comprise all of this manuscript with the exception of a small area of islets and ledge, known as Black Reef. This delineation was transferred during final review from the outer margin of manuscript T-12322 to this manuscript, since it falls within the limits of T-12328. (The field edit did not cover this area). Refer to the comments by the hydrographic survey reviewer in his report for H-9328.

Refer to the Descriptive Report for each of the manuscripts T-12324 and T-12325 for the reviewer's comments concerning additions and/or corrections made to the manuscripts during review.

Submitted by,

J.B. Phillips

J.B. Phillips

Approved:

D. J. Blankinbaker
for A. K. Heywood

Chief, Photogrammetric Branch

James Collier
Chief, Coastal Mapping Division

3-18-68

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6301 (Cook Inlet, Alaska)

T-12328

Black Reef

Cook Inlet

Iliamna Bay

Iniskin Shoal

North Head

South Head

Turtle Reef

Ursus Cove

Ursus Head

White Gull Island

Approved by:

A. Joseph Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

