#### 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-12327  Classification No. Final Edition No
Field Edited Map
LOCALITY
State Alaska
General Locality Kamishak Bay, Cook Inlet
LocalityUrsusCoxe
19 67 TO 1972
REGISTRY IN ARCHIVES
DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-760-598

12332

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	DESCRIPTIVE REP	ORT - DATA T -12327	RECORD		0
PRO ECT.NO. (III):					
PH-6301					
FIELD OFFICE (II):			CHIEF OF PAR	ΤΥ	······································
None					
PHOTOGRAMMETRIC OFFICE (III):			OFFICER-IN-CH	ARGE	
Atlantic Marine	Center, Norfolk, \	VΑ	J. Bull.	, Director -	
INSTRUCTIONS DATED (II) (III):					
Office - March 18, 1965 Office - Feb. 10, 1968, Office - May 5, 1967, S	Supplement				
					•
					•
METHOD OF COMPILATION (III):					<u> </u>
Wild B-8 plotter					
MANUSCRIPT SCALE (III):		STEREOSCO	PIC PLOTTING I	NSTRUMENT SCA	LE (III):
<del>2</del> 20,000		1.20 000	. aantaaraak	ned to 1:20,	000 /
DATE RECEIVED IN WASHINGTON OF	FICE (IV):	1		CAL CHART BRA	
APPLIED TO CHART NO.		DATE:		DATE REGIST	ERED (IV):
		MAR S	2 9 1976	12 7	innin
SEOGRAPHIC DATUM (III):			VERTICAL DAT		ronces
N.A. 1927				FEL EXCEPT AS F	
				vn as (25) refer to s vn as ( <u>5)</u> refer to s	
			i.e., <del>meta 75</del> 00-%	— • ener lower	low water
REFERENCE STATION (III): CINCH, 1967		1		1,	-
-AT.: 59 <sup>0</sup> 31'08.102'' 250.7M	153 <sup>0</sup> 45'29.243''	459.8M	ADJUSTED  MUNADJUSTE	ED.	
LANE COORDINATES (IV):			STATE		ZONE
Y=2,016,178.75 ft.	×= 544,919.02 ft.		Alaska		5
NUMERALS INDICATE WHETHE DR (IV) WASHINGTON OFFICE.					



FORM C&GS-1816 (3-66)

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

#### **DESCRIPTIVE REPORT - DATA RECORD**

T -12327

FIELD INSPECTION BY (II):		DATE:
None	•	·
MEAN HIGH WATER LOCATION (III) (STATE DA	TE AND METHOD OF LOCATION):	
Air photo compilation - July 9 Office interpretation	, 1967	
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. Bethea		10/25/67
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
L.F. VanScoy		10/26/67
CONTROL PLOTTED BY (III):		DATE
B. Barge		11/20/67
CONTROL CHECKED BY (III):		DATE
L.Netererø, Jr.		11/20/67
RADIAL PLOT OR STEREOSCOPIC CONTROL	EXTENSION BY (III):	DATE
P. Dempsey		11/67
STEREOSCOPIC INSTRUMENT COMPILATION (	III): PLANIMETRY	DATE
	A. Shands	12/67
	CONTOURS	DATE
	N.A.	
MANUSCRIPT DELINEATED BY (III): Shoreline, Cottonwood Bay C.H A.L.	l. Bishop Shands	12/68 12/67
SCRIBING BY (III):		DATE
		DATE:
L.L. Graves		3/69
REMARKS:	<del></del>	
Field edit by: Emerson G. Wood	l, June and July 1972	•

USCOMM-DC 36393B-P66

USCOMM-DC 36393C-P86

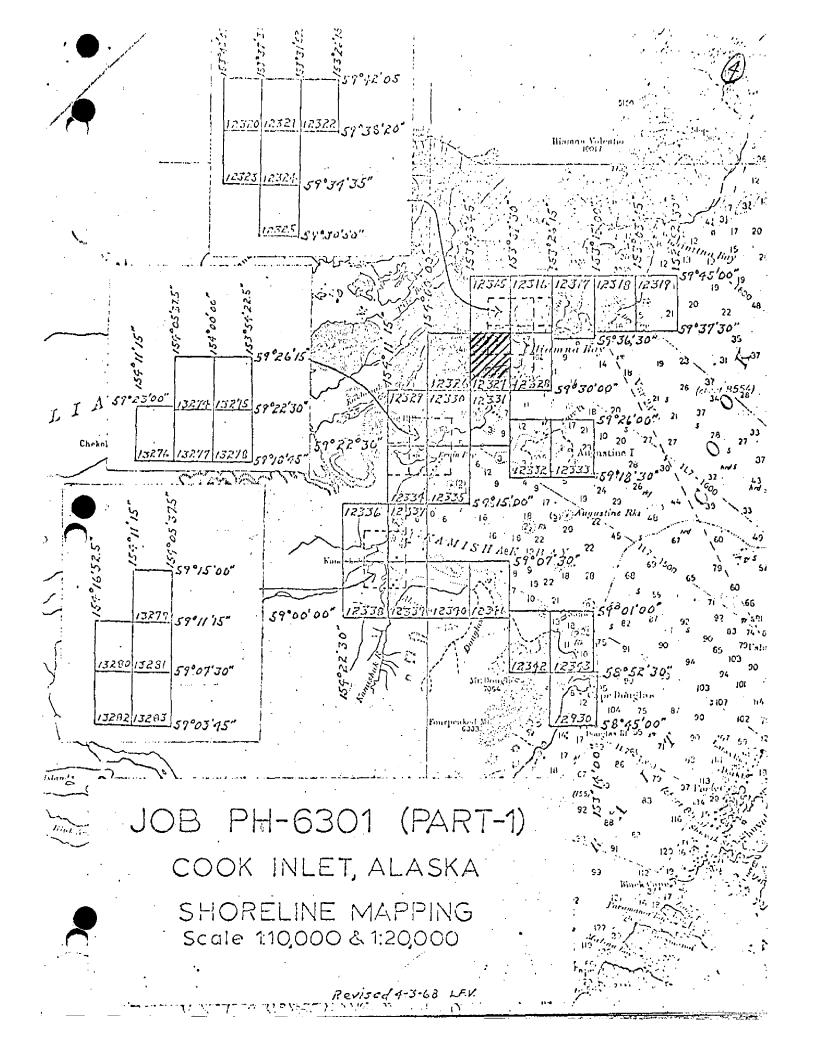
#### **DESCRIPTIVE REPORT - DATA RECORD**

T-21327

CA

(KIND OR SOURCE) (III):
USC&GS Type "M"

		PHOTOGRAPHS (III)	·			
NUMBER	DATE	TIME	SCALE		AGE OF TI	
67M868	7/9/67	0929	1:60,000	2.2' b	elow MLL	.W
67M-853 - 855	7/9/67	0912	1:60,000	2.4' be	elow MLL	.W
,	Pre	dicted TIDE (III)				iurnal
				RATIO OF RANGES	MEAN RANGE	SPENC RANGE
reference station: Selc	lovia, Alaska				15.4	17.8
SUPPLINATE STATION:	Iliamna Bay	· .			12.3	14.5
SUBORDINATE STATION:			-			
WASHINGTON OFFICE REVIEW B	y ((v): J.B	. Phillips		PATE: Feb. 19	76	· · · · · · · · · · · · · · · · · · ·
PROOF EDIT BY (IV):				DATE:		··
NUMBER OF TRIANGULATION S	FATIONS SEARCHED F	OR (II):	RECOVERED:	IDENTIFIE	D: ]	
NUMBER OF BM(S) SEARCHED F	OR (II):	none	RECOVERED: none	IDENTIFIE NON		
NUMBER OF RECOVERABLE PH	OTO STATIONS ESTAB	LISHED (III): hor	ie			
NUMBER OF TEMPORARY PHOT	O HYDRO STATIONS ES	STABLISHED (III):	none			
REMARKS:						
	<i>:</i>					
			,			



# (3)

#### SUMMARY

T-12327 is one of 40 shoreline maps comprising Job PH-6301 (Part 1) 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 June and July 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.

T-12327

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit	.	
Alongshore area for hydro	12/67 & 8/68	Superseded
Alongshore area for hydro,(Cotton- wood Bay)traced from reduction of T-12323	12/4/68	Superseded
Field Edit applied Compilation complete	12/73	

#### FIELD INSPECTION

#### T12327

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.

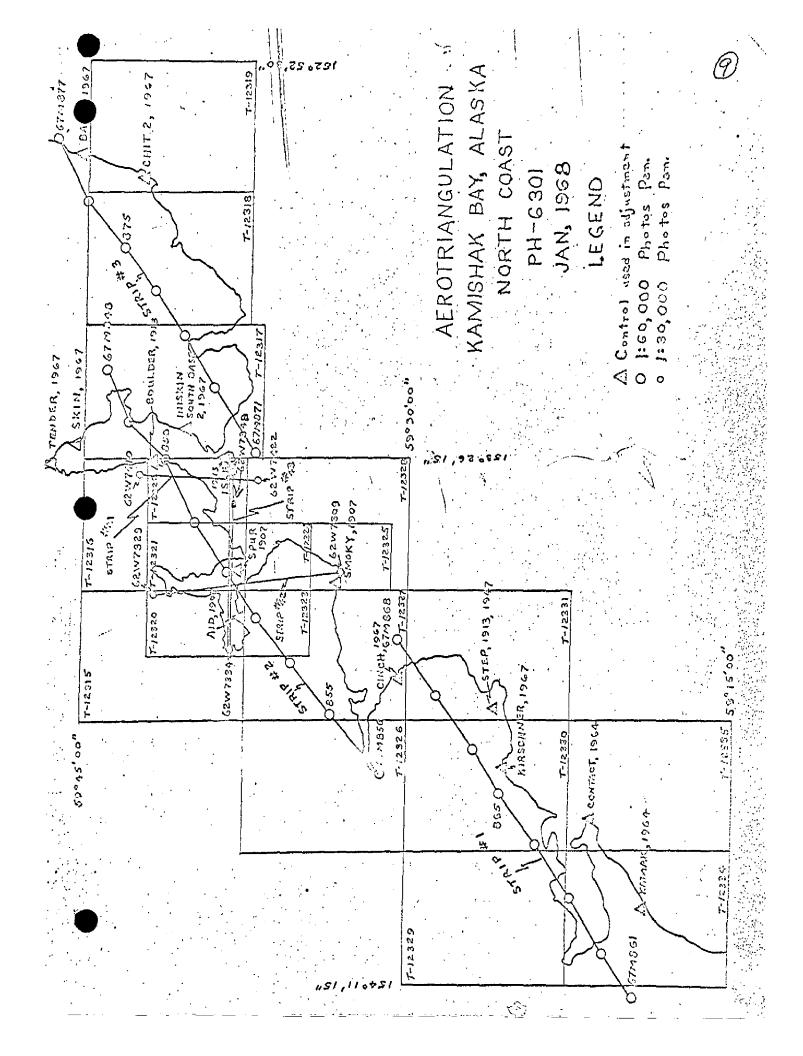
.

P. J. Dempsey

Submitted by:

Approved and forwarded:

H. P. Eichert, Chief Aerotriangulation Section





#### Compilation Report Job PH-6301 Map Manuscript T-12327

#### 31. Delineation

The Wild B-8 stereoplotter was used.

There was no field inspection prior to compilation. Cottonwood Bay, at the top of this sheet, was traced from a reduction of 1:10,000 sheet T-12323.

#### 32. Control

See Photogrammetric Plot Report dated January 22, 1968. (page 11)

- 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

The shoreline and all alongshore details were delineated from office interpretation of the photographs.

#### 36. Offshore Details

All rocks, reefs, shoal, and foul areas were delineated from office interpretation.

- 37. Landmarks and Aids None
- 38. Control for Future Surveys None

#### Junctions

Junctions have been made with T-12325 (1:10,000), T-12324 (1:10,000) and T-12328 (1:20,000) to the east, T-12323 (1:10,000) and T-12315 (1:20,000) to the north, and T-12326 (1:20,000) to the west. There is no contemporary survey to the south.

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

Difficulty in holding control established by stereoplanigraph bridging of strips hl, h2, and h3 was encountered, initially. They were returned to the Bridging Section and their subsequent re-adjustment resulted in "Revisions" for strips h1 and h3.

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-733h 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 substiantiate 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 shore-line pass points.

- 40. Horizontal and Vertical Accuracy No statement.
- 41. thru 45. Inapplicable
- 46. Comparison with Existing Maps

Comparisons have been made with USGS Quadrangles Iliamna (C-3), Alaska, and Iliamna (C-2), Alaska, scale 1:63,360, dated 1954.

47. Comparison with Nautical Charts

Comparison was made with USC&GS chart 8554, 9th edition (Cook Inlet, Southern Part), scale 1:200,000, dated May 10, 1965.

Items to be Applied to Nautical Charts Immediately: None

Items to be Carried Forward: None

Submitted by,

A. L. Shands Carto Tech March 1969

Approved:

# FIELD EDIT REPORTS

# Lower Cook Inlet, Alaska

OPR-429 FA-72

June-August 1972

# MAPS

T-12320	T-12325
T-12321	T-12326
T-12323	T-12327
T-12324	T-12331

#### FIELD EDIT REPORTS

Lower Cook Inlet, Alaska

OPR-429

June-August 1972

#### INTRODUCTION

Field edit reports are attached for the following maps:

T-12320	T-12325
T-12321	T-12326
T-12323	(T-12327)
T-12324	T-12331

Field photographs and copies of the field edit ozalids were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field. Sextant fixes were plotted on boat sheets FA-10-6-72 and FA-20-2-72. The hydrographic location was then compared with the photogrammetric position. Height data for all rocks and ledges is either written directly on the ozalid or entered in the field edit notebook along with position data, in which case the notebook and page number are referenced on the ozalid.

Notes have been made in violet on the field photographs and have been cross-referenced on the field edit ozalids by photograph number. All times are based on 135° W. meridian.

Compilation of the maps is good. Several discrepancies in the MLLW line were noted in Iliamna Bay, apparently as a result of uplifting from the 1964 earthquake. It is recommended that the maps be revised in accordance with notes on the photographs and in the field edit notebook before acceptance as advance manuscripts. Field inspection of these maps is complete.

Approved and Forwarded:

R. H. Houlder Captain, NOAA



#### FIELD EDIT REPORT

Map T-12327

Ursus Cove, Alaska

June-July 1972

Field edit of Map T-12327 was done by LT (jg) Emerson G. Wood during June and July 1972. Inspection was done from a small boat and on foot when fixes on land were required.

#### METHOD

Field photographs and a copy of the field edit ozalid were examined in the field. The mean high water line was verified by visual comparison of the beach area and the ozalid in the field. Isolated rocks and ledges were located by sextant fixes and plotted on boat sheet FA-20-2-72. Heights of rocks, reefs, and high points of ledges are noted on the photograph, in the field edit notebook, or directly on the ozalid.

Photograph 67M-868 is the only one referenced on this map. All times are based on 135°W. meridian.

#### ADEQUACY OF COMPILATION

Compilation of this map is good. Hydrographic location of features compares well to photogrammetric location; Note is made of the following items:

The approximate area of Lat. 59°33'08"N, Long. 153°39'15"W. was found to be foul with rocks. No fix was taken due to lack of hydrographic control signals.

No rock was visible at low water at Lat. 59°32'20"N, Long 153°44'20"W., and none was indicated by hydrographic records for boat sheet FA-20-2-72.

No rock exists at Lat. 59°31'38"N, Long. 153°46'08"W.

The channel and sand bar at the mouth of the river at the west end of Ursus Cove were found to have changed somewhat since the photographs were taken. Reference is made to photograph 67M-868.

No rocks were visible at low water at Lat. 59°30'25"N, Long. 153°43'10"W.

No rock was visible at low water at Lat. 59°30'24"N, Long. 153°42'36"W., although hydrographic records for boat sheet FA-20-2-72 indicate a shoal sounding of 2.4 fathoms in this area.

Field inspection of this map is complete.

#### RECOMMENDATIONS

It is recommended that the map be revised in accordance with the notes on the photograph and in the field edit notebook, and that the map be accepted as an advance manuscript.

Respectfully submitted,

WE Making

Emerson G. Wood

LT (jg), NOAA

1000

(17)

1. PROJECTION AND GRIDS	2 TITLE		#19 <del>363</del> T-12327	4. MANUSCRIPT SIZE
LLG	LLG		LLG	
CONTROL STATIONS	<u> </u>		<u> </u>	
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF ACCURACY	6. RECOVER	ABLE HORIZONTAL STATIONS HAN THIRD-ORDER ACCURACY ic stations	7. PHOTO HYDRO STATIONS
LLG		NON		XX
8, BENCH MARKS	9. PLOTTING	OF SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT Wash. Science Center	Pass LLG (except 868)
XX			P.J.D.	ZZG (CXCOPE GGG)
ALONGSHORE AREAS (Nautice				
12. SHORELINE	13. LOW-WATE	R LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
16. AIDS TO NAVIGATION	17, LANDMARI	KS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
PHYSICAL FEATURES	<u> </u>	<del> </del>		
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOUR
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOUR	S IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
CULTURAL FEATURES	<u> </u>			<u> </u>
27. ROADS	28, BUILDING	s	29. RAILROADS	30. OTHER CULTURAL FEATURES
	<u></u>		<u> </u>	
BOUNDARIES 31. BOUNDARY LINES		<del></del>	32. PUBLIC LAND LINES	
_				
MISCELLANEOUS				
33. GEOGRAPHIC NAMES		34. JUNCTIO	ns	35. LEGIBILITY OF THE MANUSCRIPT
36. DISCREPANCY OVERLAY	37. DESCRIPT	I IVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
40. REVIEWER			SUPERVISOR, REVIEW SECTION	ORIMIT
L.L. Graves	Ма	rch 1969	A.C. Rauck, Jr.	
41. REMARKS (See attached she	eat)		<u> </u>	<del></del>
FIELD COMPLETION ADDITIO	NS AND CORREC	TIONS TO THE	MANUSCRIPT	
script is now complete ex	cept as noted un	der item 43.	tion survey have been applied to	the manuscript. The manu-
Reviewer:R.R. Whi		12/73 3/74	A.C. Rauck,Jr.	
43. REMARKS		·		
Field edit applie		d edit oza	alid, photograph 67M86	8,
Field edit notebo	ok.			



#### Review Report T-12327 Shoreline Survey February 1976

#### 61. General Statement

Refer to the Hydrographic Survey Review Report for H-9327, page 3, Condition of Survey, Item 5. During final photogrammetric review, nothing could be found to indicate that information was omitted on T-12327 Class I manuscript from the field edit ozalid. However, the position for plotting one offshore rock was found in the Field Edit Notebook. This rock was plotted during review and the position is in agreement with the hydrographic location.

#### 62. Comparison with Registered Topographic Surveys

T-3420, Part II, 1:40,000, March 1910.

This survey is superseded by the new map.

#### 63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, Item 46.

#### 64. Comparison with Contemporary Hydrographic Surveys

H-9327, 1:20,000 June-August 1972

Comparison was made with the final reviewed hydrographic sheet. Foul and many low water lines were removed where they conflicted with information established by the hydrographer. Differences exist between the surveys in rock elevations, resulting primarily from the use of actual observed tides on the hydrographic survey. No discrepancies exist to be reported.

#### 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 compiles with Bureau requirements.

Submitted by,

J̃.B. Phi∫lips

Approved:

Chief, Photogrammetric Branch
D. W. Blond and Date

for A.K. Heywood

Chief, Coastal Mapping Division

(19)

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6301 (Cook Inlet, Alaska)

T-12327

Brown Peak
Chigmit Mountains
Cottonwood Bay
Ursus Cove

Approved by:

A. Joseph Wraight Chief Geographer Prepared by:

Frank W. Pickett Cartographic Technician U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMITTENATION

NOAA FORM 76-41
(2-71)
USCOMMOG
34158-F71
(FORMERLY FO)
CAGS-164)

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12327	PROJECT NO.	. NO. PH-6301	SC.	SCALE OF MAP 1:20,000 SCAL	SCALE FACTOR None
STATION	,	SOURCE OF INFORMATION (INDEX)	ратим	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (10 ACX)
		G.P. Unadj.	N.A.	59 <sup>0</sup> 31'08, 102''	(1606.0
CINCH, 1967			1927	153 <sup>0</sup> 43129.243"	
	•				
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		•			
			-		
	ı				
-					
	-				
					2
COMPUTED BY A.L. Shands		DATE Jan. 8	, 1968	Checked BY L.O. Neterer .	DATE Jan. 8, 1968