

T-12326

T-12326

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-12326.....
Classification No. Final	Edition No.1.....
Field edited map * see below	
LOCALITY	
State Alaska.....	
General Locality Kamishak Bay-Cook Inlet.....	
Locality The Cone.....	
.....	
1967 TO 1972	
REGISTRY IN ARCHIVES	
DATE	

★ U.S. GOVERNMENT PRINTING OFFICE: 1972-760-593

* Refer to pages 15 & 17 concerning
accuracy of MLLW line

DESCRIPTIVE REPORT - DATA RECORD

T - 12326

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, Director

INSTRUCTIONS DATED (II) (III):

Office - March 18, 1965, Part I
Office - Feb. 10, 1966, Supplement I
Office - May 5, 1967, Supplement II
Office - Dec. 27, 1967, Supplement III

METHOD OF COMPILATION (III):

Wild B-8 Plotter

MANUSCRIPT 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:

MAR 29 1976

DATE REGISTERED (IV):

n. Francis

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III): MHW

~~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):

LAT.:

LONG.:

☐ ADJUSTED

☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y =

X =

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
T-12326

INSPECTION BY (III): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air photo compilation - July 9, 1967 (date of photography) 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. Dempsey		DATE: 11/67
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY: A. Shands Reviewed by: L.O. Neterer	DATE: 7/12/68 7/12/68
	CONTOURS	DATE:
MANUSCRIPT DELINEATED BY (III): A. Shands		DATE: 7/12/68
SCRIBING BY (III):		DATE:
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): L.L. Graves		DATE: 3/18/69
REMARKS: Field edit by: Emerson G. Wood		6/1972

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DESCRIPTIVE REPORT - DATA RECORD

T-12326

C. A (KIND OR SOURCE) (III):

USC&GS Type "M"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
67M856	7/9/67	0912	1:60,000	2.4' below MLLW

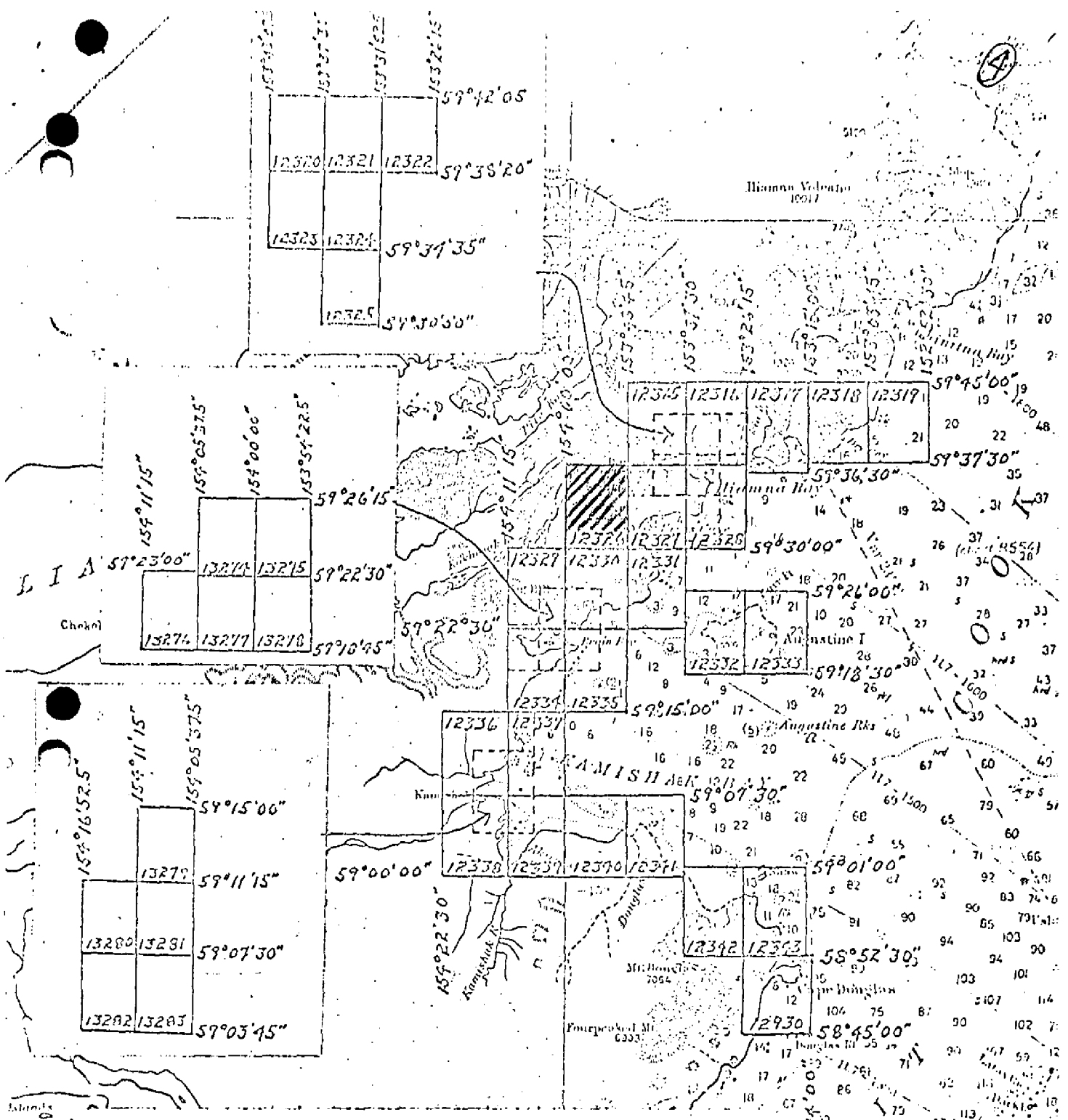
Predicted

TIDE (III)

Diurnal

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Seldovia, 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): None	RECOVERED: None	IDENTIFIED: None		
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:



JOB PH-6301 (PART-1)

COOK INLET, ALASKA

SHORELINE MAPPING

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

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

SUMMARY

T-12326 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 *June 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.

(6)

T-12326

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit		
Alongshore Area for Hydro	August 1968	Superseded
Field edit applied Compilation complete	January 1974	

FIELD INSPECTION

■-T-12326

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.

(8)

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.

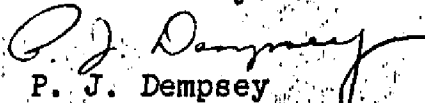
24. Supplemental Data

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

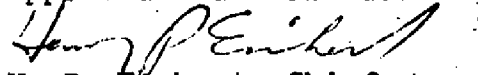
25. Photography

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-12326

31. Delineation

The Wild B-8 stereoplotter was used. Photography was adequate.

32. Control

See Photogrammetric Plot Report dated January 22, 1968. (Also 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 - None

37. Landmarks and Aids - None

38. Control for Future Surveys - None

39. Junctions

Junctions were made with T-12327 to the east, and T-12330 to the south. There are no contemporary surveys to the north or west.

40. Horizontal and Vertical Accuracy - No statement.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

A comparison has been made with USGS quadrangle Iliamna (C-3), Alaska, scale 1:63,360, dated 1954.

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.

47. Comparison with Nautical Charts

A comparison has been made with USC&GS chart 8554, 9th edition, 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:

J. Bull
Director, Atlantic Marine Center

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:

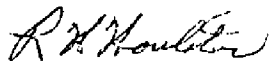
T-12320	T-12325
T-12321	<u>T-12326</u>
T-12323	T-12327
T-12324	T-12331

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-12326

Ursus Cove, Alaska

June 1972

Field edit of Map T-12326 was done by LT (jg) Emerson G. Wood during June 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. All notes are written directly on the ozalid. All times are based on the 135°W. meridian.

ADEQUACY OF COMPILATION

Compilation of this map is generally good. The MLLW line is inaccurate, however, possibly due to uplifting from the 1964 earthquake. The area covered by the ozalid is of negligible value to navigation, since the deepest part of the channel is only two to three feet deep at high water. * See below

No hydrography was run in the area covered by Map T-12326, and no photographs are referenced for this map.

Two marsh areas remain unconfirmed due to difficulty in reaching them.

Field inspection of this map is complete.

RECOMMENDATIONS

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

Respectfully submitted,

DE Norrup

for Emerson G. Wood
LT (jg), NOAA

* The effect of the 1964 earthquake on the 1967 Photography is unknown. The MLLW line was not corrected by the field editor. Recommendation for charting as an approximate MLLW line or a shallow line has been included on the "Chart Maintenance Print" submitted to the Marine Chart Division

PHOTOGRAMMETRIC OFFICE REVIEW

~~T-10349~~ T-12326

1. PROJECTION AND GRIDS LLG	2. TITLE LLG	3. MANUSCRIPT NUMBERS LLG	4. MANUSCRIPT SIZE LLG
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) N.A.		7. PHOTO HYDRO STATIONS N.A.
8. BENCH MARKS N.A.	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT LLG	11. DETAIL POINTS LLG
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE LLG	13. LOW-WATER LINE LLG	14. ROCKS, SHOALS, ETC. LLG	15. BRIDGES LLG
16. AIDS TO NAVIGATION LLG	17. LANDMARKS LLG	18. OTHER ALONGSHORE PHYSICAL FEATURES LLG	19. OTHER ALONGSHORE CULTURAL FEATURES LLG
PHYSICAL FEATURES			
20. WATER FEATURES LLG	21. NATURAL GROUND COVER N.A.		22. PLANETABLE CONTOURS N.A.
23. STEREOSCOPIC INSTRUMENT CONTOURS N.A.	24. CONTOURS IN GENERAL N.A.	25. SPOT ELEVATIONS N.A.	26. OTHER PHYSICAL FEATURES LLG
CULTURAL FEATURES			
27. ROADS LLG	28. BUILDINGS LLG	29. RAILROADS LLG	30. OTHER CULTURAL FEATURES LLG
BOUNDARIES			
31. BOUNDARY LINES N.A.		32. PUBLIC LAND LINES N.A.	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES LLG	34. JUNCTIONS LLG		35. LEGIBILITY OF THE MANUSCRIPT LLG
36. DISCREPANCY OVERLAY LLG	37. DESCRIPTIVE REPORT LLG	38. FIELD INSPECTION PHOTOGRAPHS N.A.	39. FORMS LLG
40. REVIEWER L.L. GRAVES		SUPERVISOR, REVIEW SECTION OR UNIT Albert 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 applied 1974		SUPERVISOR A.C. Rauck	
43. REMARKS			

Review Report T-12326
Shoreline Survey
February 1976

62. Comparison with Registered Topographic Surveys - None

63. Comparison with Maps of Other Agencies

Refer to item 46 of the Compilation Report.

64. Comparison with Contemporary Hydrographic Surveys - None

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. * Refer to page 15 concerning accuracy of MLLW line.

Submitted by,

J. B. Phillips
J. B. Phillips

Approved:

S. G. Blankenhorn
for *A. K. Heywood*

Chief, Photogrammetric Branch

James C. Allen
Chief, Coastal Mapping Division

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6301 (Cook Inlet, Alaska)

T-12326

Chigmit Mountains

Moose Lake

The Cone

Approved by:

A. Joseph Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician