

T-13280

T-13280

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-13280.....

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

Field Edited Map

#### LOCALITY

State ..... Alaska.....

General Locality ..... Kamishak Bay.....

Locality ..... McNeil Cove, Akjemguiga Cove.....

1962 TO 1968


#### REGISTRY IN ARCHIVES

DATE .....

1

DESCRIPTIVE REPORT - DATA RECORD

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 TITLES NO. (II):  PH-6301
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FIELD OFFICE (II):  None	CHIEF OF PARTY
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PHOTOGRAMMETRIC OFFICE (III):  Atlantic Marine Center, Norfolk, VA	OFFICER-IN-CHARGE  J. Bull, Director
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INSTRUCTIONS DATED (II) (III):

Office, March 18, 1968  
 Supplement I, 2/10/66  
 Supplement II, 5/5/67  
 Supplement III, 12/27/67  
 Supplement IV, 4/2/68  
 Supplement V, 4/9/68

METHOD OF COMPILATION (III):

Graphic

MANUSCRIPT SCALE (III):   : 10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
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DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
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APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
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GEOGRAPHIC DATUM (III):  N.A. 1927	VERTICAL DATUM (III): <b>high water</b> MEAN <del>SEA LEVEL</del> EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e. <del>mean lower low water</del>
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REFERENCE STATION (III):

PAINT, 1964

LAT.: 59°09'29.4662(911.8M)	LONG.: 154°13'06.8530''(108.9M)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
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PLANE COORDINATES (IV):   , 884,331.62ft.      x = 458,976.66ft.	STATE  Alaska	ZONE  5
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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):  None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Air photo compilation 6/18/62 date of photography		
PROJECTION AND GRIDS RULED BY (IV):  A. Bethea		DATE  4/16/68
PROJECTION AND GRIDS CHECKED BY (IV):  L.F. VanScoy		DATE  4/17/68
CONTROL PLOTTED BY (III):  J. Steinberg		DATE  4/19/68
CONTROL CHECKED BY (III):  E. Serena		DATE  4/19/68
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  G.M. Ball (for 1:20,000 compilation) T-12336		DATE  5/66
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY  A.L. Shands	DATE  5/1/68
	CONTOURS  Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):  R. White		DATE  5/6/68
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  L.L. Graves		DATE  5/7/68
REMARKS:  Field Edit by W. R. Cameron: 7/68		

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CAMERA (KIND OR SOURCE) (III):

USC&GS Type "W" and "M"\*

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62M 1832-8 35	6/18/62	1446	1:50,000	12.1' above MLLW
62W6410 - 6414	6/18/62	1321	1:15,000	7.1' above MLLW
62W6416 - 6421	6/18/62	1326	1:15,000	7.3' above MLLW
62W6504-6507	6/18/62	1604 PST	1:30,000	14.3' above MLLW

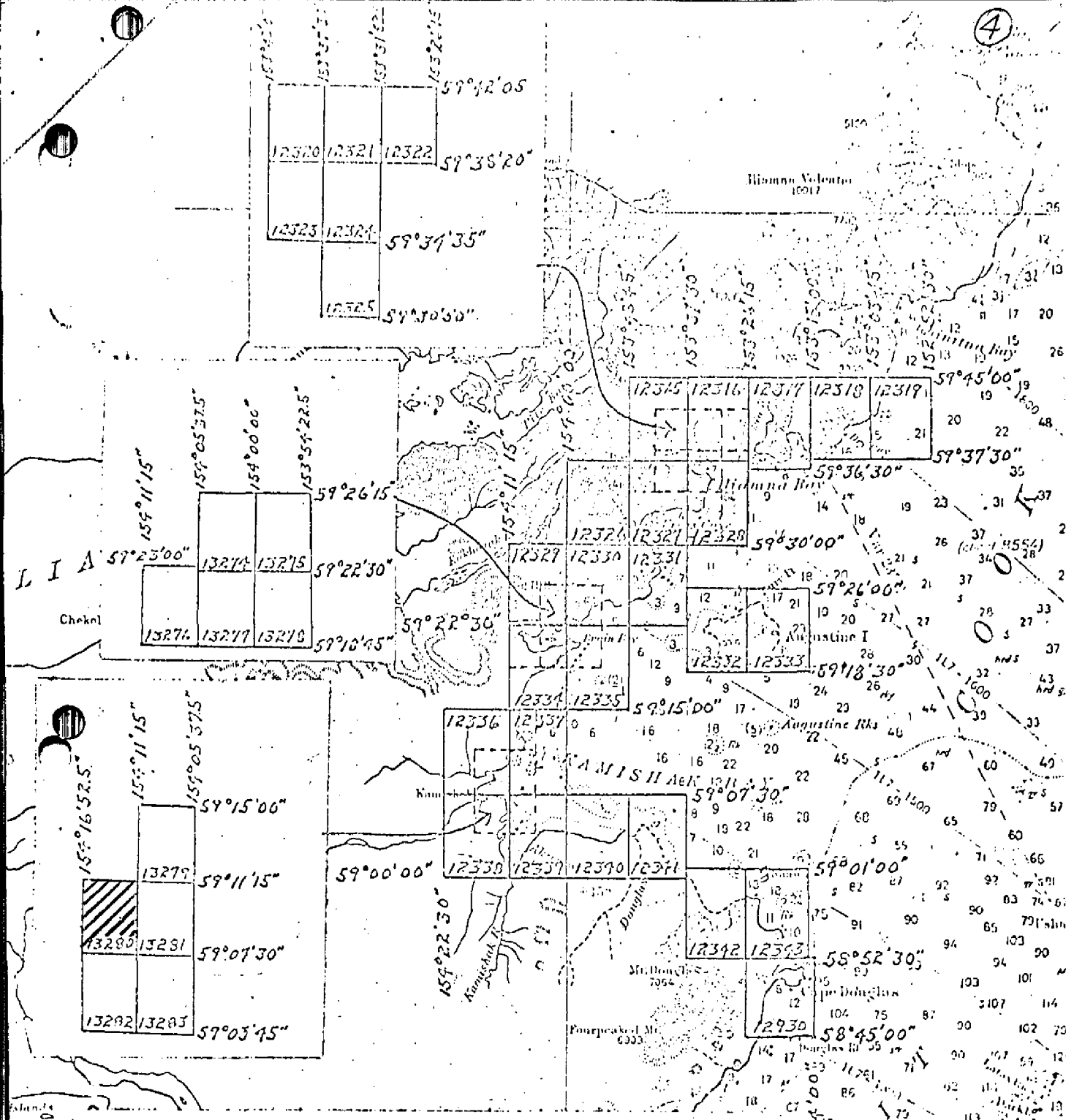
Predicted TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Seldovia, Kachemak Bay, Alaska		15.4	17.8
COORDINATE STATION: Iliamna Bay, Alaska	H=0.81 L=0.87	12.3	14.5
SUBORDINATE STATION:			
WASHINGTON OFFICE REVIEW BY (IV): J.B. Phillips	DATE: 5/76		
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:

\* "M" photography at 1:50,000 scale used for compilation of T-12336



JOB PH-6301 (PART-1)  
COOK INLET, ALASKA  
SHORELINE MAPPING  
Scale 1:10,000 & 1:20,000

SUMMARY

T-13280 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 1968

Final review was accomplished at the Rockville Office in May 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	5/68	Superseded
Field edit applied	9/68	

FIELD INSPECTION

W-T-13280

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*  
P. J. Dempsey

Approved and forwarded:

*H. P. Eichert*  
H. P. Eichert, Chief  
Aerotriangulation Section



Compilation Report  
T-13280

31. Delineation

The shoreline and planimetry was delineated graphically by the use of 62W ratio photographs.

Where the image was indistinct, or did not appear on the W photography, detail was taken from the 1:20,000 scale manuscript compilation from M photography. Refer to page // for additional comments.

32. Control

See photogrammetric plot report for 1:20,000 scale manuscript, T-12336.

Passpoints for shoreline control of the 1:20,000 scale manuscript were scaled and replotted on this manuscript. Bridging control was also used for the control of this manuscript.

Shoreline passpoints of the 1:20,000 scale photography were re-established on the 1:10,000 scale photographs used for this manuscript.

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

Numerous rocks, ledge, and shallow areas were delineated from office interpretation of the photographs. No low waterline was shown.

36. Offshore Details

Rocks and reefs were compiled from M photography on the 1:20,000 scale manuscript and transferred to this manuscript.

37. Landmarks and Aids - None

38. Control for Future Surveys - None

39. Junctions

Junctions are in agreement with T-12336 (1:20,000) scale to the north, T-12381 (1:10,000) and T-12337(1:20,000) to the east, T-13282(1:10,000) and T-12338 (1:20,000) scale to the south and T-12336 (1:20,000) to the west.

NOTES FOR REPORTS FOR THE FOLLOWING T-SHEETS COVERING  
MC NEIL COVE AND BRUIN BAY:

T-13280

(11)

T-13274 through T-13283

PLEASE USE THIS NOTE FOR EACH REPORT UNDER ITEM #31 DELINEATION.

The area of this manuscript was previously compiled at 1:20,000 scale under one of the following manuscripts: T-12329, T-12330, T-12334, T-12335, T-12336, T-12337, T-12338 or T-12339, using 1962 and 1967 "M" photography at 1:50,000 scale, June 18, 1962 and 1:60,000 scale, July 9, 1967, respectively.

Other "W" photography taken in 1962, also dated June 18, cover these areas. These were used to supplement the shoreline delineation of the "M" photos, especially in areas of shoreline layover.

The new or more recent re-compilation of this sheet at 1:10,000 scale was accomplished in the following manner:

1. Shoreline passpoints from the 1:20,000 compilations were scaled on the coordinatograph and recorded.
2. The same passpoints were re-plotted on the 1:10,000 projection sheets.
3. Readout positions of bridge passpoints for the 1:20,000 sheets were also plotted on the 1:10,000 scale sheets.
4. The entire shoreline was graphically delineated, then edited and revised, if necessary, through the use of the processed 1962 "W" ratio prints. Areas where these revisions were deemed necessary will be reduced with the vertical projector and corrected on the 1:20,000 manuscripts.

The remaining alternative for the compilation of these 1:10,000 scale sheets, would be by the ratio of 5X and 6X of the 1962 and 1967 "M" photos. Inasmuch as these ratios would far exceed the 3X ratios of 1962 "W" photos, and the vertical projector ratio of 2X, and, in essence of meeting the June 15, 1968 ship schedule, it was ~~concluded~~ that the method used was the most expedient and accurate.

*WAS DISCUSSED WITH THE ROCKVILLE, MD. PHOTO OFFICE WHO CONCURRED*

40. Horizontal and Vertical Control - No statement

41. thru 45. Inapplicable

46. Comparison with Existing Maps

A comparison was made with USGS quadrangle Iliamna (A-4) Alaska, scale 1:63,360, dated 1951.

47. Comparison with Nautical Charts

A comparison was made with Bureau chart No. 8554 (Cook Inlet, Southern Part) scale 1:200,000; 9th edition, dated May 10, 1965.

Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by,

L.L. Graves  
Carto Tech.  
May 1968

Approved and forwarded:

J. Bull, RADM  
Director, Atlantic Marine Center

FIELD EDIT REPORT

SHEET T-13280

AKJEMGUIGA COVE

PH-6301

JULY 1968

USC&GSS PATHFINDER

CDR A. C. HOLMES, CMDG

51 Methods

The field edit of this map was done in accordance with photogrammetric instructions and project instructions to the Commanding Officer, Ship PATHFINDER, dated April 3, 1968.

All deletions, additions 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. General field edit notes on the Field Edit Ozalid are in violet ink. Features marked in green are to be deleted. Red circles show the approximate location of hydrographic signals used in the field edit.

Field edit notes appear on field ratio print 62W6506. The notes are in violet ink.

52 Adequacy of Compilation

Compilation of the manuscript was adequate and complete considering there was no field inspection of the area prior to compilation.

54 Recommendations

None.

56 Additional Information

Alaska Daylight Time, time meridian 135W, was used for the entire survey.

Hydrographic signal positions used in fixes on rocks, reefs, etc. are listed on a sheet attached to the Field Edit Ozalid. Signals are listed by number rather than name to conform with the requirements of electronic data processing.

The MHWL was visually verified and found to be correct as compiled. See photo 62W6506 for additions to the shore-line compilation.

*William R. Cameron*  
William R. Cameron  
LTJG-USESSA  
Photo Officer

Approved:

*A. C. Holmes*  
A. C. HOLMES  
CDR-USESSA  
Commanding Officer

PHOTOGRAMMETRIC OFFICE REVIEW

T-13280

~~10363~~

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) X			7. PHOTO HYDRO STATIONS CHB	
8. BENCH MARKS X		9. PLOTTING OF SEXTANT FIXES CHB		10. PHOTOGRAMMETRIC PLOT REPORT LLG		11. DETAIL POINTS LLG	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE LLG		13. LOW-WATER LINE NONE		14. ROCKS, SHOALS, ETC. CHB		15. BRIDGES X	
16. AIDS TO NAVIGATION NONE		17. LANDMARKS NONE		18. OTHER ALONGSHORE PHYSICAL FEATURES LLG		19. OTHER ALONGSHORE CULTURAL FEATURES X	
PHYSICAL FEATURES							
20. WATER FEATURES LLG			21. NATURAL GROUND COVER X			22. PLANETABLE CONTOURS X	
23. STEREOSCOPIC INSTRUMENT CONTOURS X		24. CONTOURS IN GENERAL X		25. SPOT ELEVATIONS X		26. OTHER PHYSICAL FEATURES X	
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 LLG			34. JUNCTIONS LLG			35. LEGIBILITY OF THE MANUSCRIPT CHB	
36. DISCREPANCY OVERLAY LLG		37. DESCRIPTIVE REPORT LLG		38. FIELD INSPECTION PHOTOGRAPHS NONE		39. FORMS CHB	
40. REVIEWER L.L. Graves 5/7/68				SUPERVISOR, REVIEW SECTION OR UNIT A.C. Rauck			
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 A.L. Shands 9/26/68 Reviewer: C.H. Bishop 11/20/68				SUPERVISOR A.C. Rauck			
43. REMARKS Field edit applied from: field edit ozalid, T-13280, and matte ratio print 62W6506							



Review Report T-13280  
Shoreline Survey  
May 1976

61. General Statement

Refer to item 31 in the Descriptive Report for detailed information concerning the compilation of this map. To avoid unnecessary repetition, T-12336 covering this same area at 1:20,000 scale, was not reviewed and will remain a Class I 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-9014 1:10,000 1968

Comparison was made with the final reviewed hydrographic survey. During review some ledge limits were removed where they conflicted with the hydrographer's soundings and depth curves.

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:

*[Signature]*  
Chief, Photogrammetric Branch

*[Signature]*  
Chief, Coastal Mapping Division

