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NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline Job No. PH-6410 Map No.T-12703 Classification No. Incomplete Edition No. 1
LOCALITY
StateAlaska
General Locality Montague Island
Locality Patton Bay
19 64 TO 19
REGISTRY IN ARCHIVES

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

* CLASS III MANUSCRIPT

ou

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 12703

PROJECT NO. ((1):			
РН-6410			•
FIELD OFFICE (II):		CHIEF OF PARTY	•
None			
PHOTOGRAMMETRIC OFFICE (III):	· · · · · · · · · · · · · · · · · · ·	OFFICER-IN-CHARGE	<u></u>
Atlantic Marine Center, Norfolk, Virginia	9.	J. Bull - Director	
Field Office Field Office, Amendment I Office, Amendment I to Feb. 1 Field Office Office Office Amendment I Field Office Amendment I Field Office Amendment I Field Office Amendment I Kelsh plotter and graphic	9, 1 9 65 Ins	Aug. 21, 1 Feb. 8, 19 Feb. 18, 19 Feb. 19, 19 Feb. 26, 19 Dec. 6, 19 Jan. 1966 Mar. 15, 1 Apr. 26, 19	265 1965 1965 1965 265 265
Keish plotter and graphic	STEDEOSC	OPIC PLOTTING INSTRUMENT SCA	IF (m):
1:20,000		00 pantographed to 1:20	
DATE RECEIVED IN WASHINGTON OFFICE (IV): APPLIED TO CHART NO.	DATE:	DRTED TO NAUTICAL CHART BRA	TERED (IV):
		Ang	1978
GEOGRAPHIC DATUM (III): NA, 1927		VERTICAL DATUM (III): MICKINIA MICKINIA EXCEPT AS Elevations shown as (25) refer to Elevations shown as (5) refer to t.e., MICHINIA MICKINIA MICKINIA INVESTIGATIONS	meen high water rounding datum
REFERENCE STATION (III):		1	
RIVER 2, 1956			
LAT.: LONG.: 59° 54' 43.381" (1342.6M) 147° 29' 47.742	" (742.0M)	DATEULGANU DE CONTROL	
PLANE COORDINATES (IV):		STATE	ZONE
v = 2,162,883.50 ft. x = 225,323.04 f	t.	Alaska	3
POMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENDER (IV) WASHINGTON OFFICE.	ITERED BY (II)	FIELD PARTY, (III) PHOTOGRAMM	ETRIC OFFICE.

DESCRIPTIVE REPORT - DATA RECORD

T-12703

FIELD INSPECTION BY (II):		DATE:
None		
	on - August 15, 1964 R LOW-WATER LINE	
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree		3/17/66
PROJECTION AND GRIDS CHECKED BY (IV): R. Glaser		3/22/66
CONTROL PLOTTED BY (III):		DATE
C. E. Blood		3/30/66
CONTROL CHECKED BY (III):		DATE
L. O. Neterer, Jr.		3/30/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EX	TENSION BY (III):	DATE ::
STEREOSCOPIC INSTRUMENT COMPILATION (III) Kelsh Plotter	REVIEWED: { L. O. Neterer, Jr. A. C. Rauck, Jr.	DATE 12/68 & 1/69 12/68 & 1/69
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): B. Wilson		1/17/69
CRIBING BY (III):		DATE
COMPILATION: R. J.	Do.L.	DÂTE
COLUTTRATION: W. O.	rate	2/69

DESCRIPTIVE REPORT - DATA RECORD T-12703

CAMERA (KIND OR SOURCE) (III):

USC&GS Type "W"

USU&US T		OTOGRAPHS (III)	<u> </u>			
NUMBER	DATE	TIME	SCALE	ST	AGE OF TIE	E
64W-1870 and 1871 64W-1874 and 1875 64W-1823 and 1824	8/15/64 8/15/64 8/15/64	11:10 11:10 10:26	1:30,000 1:30,000 1:30,000	4.0 f	t. above t. above t. above	MLLW
5						
	Predi	cted TIDE (III)				DIURNA
-				RATIO OF	MEAN RANGE	RANG
REFERENCE STATION: Cordo	ova, Alaska				10.0	12.
subordinate station: Patt	on Bay, Alaska	L.			7.9	10.
SUBORDINATE STATION:			· · · · · · · · · · · · · · · · · · ·			
WASHINGTON OFFICE REVIEW BY	(IV):			DATE:		· .
PROOF EDIT BY (IV):				DATE		
NUMBER OF TRIANGULATION STA	TIONS SEARCHED FO	R (II): 6	RECOVERED:	IDENTIFIE	:D: 3	•
NUMBER OF BM(S) SEARCHED FO	R (III): None	•	RECOVERED: None	IDENTIFIE	Non	е
NUMBER OF RECOVERABLE PHOTE	O STATIONS ESTABL	ISHED (III): None	e			,
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS EST	ABLISHED (III):	None	• •		
REMARKS:						

T-12703

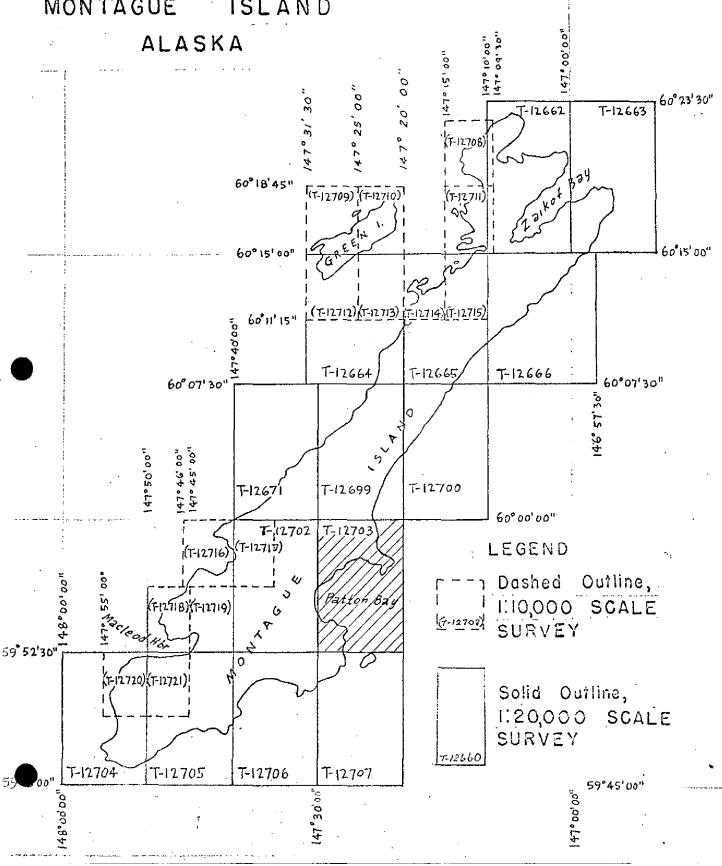
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit.	2/69	Incomplete manuscript
Field edit cancelled.	8/06/75	Incomplete manuscript
Final Review	. 7/77	Class III manuscript
A FEW CORRECTIONS WERE MADE PRIOR TO REGISTRA-TION.	TO MARINE CHARTS 6/8/78	"

JOB PH-6410

SHORELINE MAPPING

SCALE, 1:10,000 - 1:20,000

MONTAGUE ISLAND



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS

T-12662 through T-12666, T-12671, T-12699, T-12700 and T-12702 through T-12721

Project PH-6410 was originally designated 21423 (3). It consists of fourteen maps at 1:10,000 scale and fourteen maps at 1:20,000 scale. Its purpose was to provide up-to-date shoreline for hydrography and for nautical chart construction. Map T-12701, 1:20,000 scale, originally a part of the project, was cancelled.

This project covers Montague Island, Green Island and Little Green Island bordered by Prince William Sound and the Gulf of Alaska. The area was significantly affected by the earthquake of March 27, 1964. Uplifts of as much as 32 ft. have been recorded. This action created new shoreline and alongshore features. The new features, in many instances, appear to be composed of loosely consolidated materials. The configuration of some features as recorded on the August, 1964 photographs could have changed significantly since photography as a result of natural weathering and settling forces.

Photograph coverage was not sufficient to allow the delineation of two previously charted offshore islands at lat. 60° 06.7', long. 147° 36.1' (THE NEEDLE) and lat. 60° 11.9', long. 147° 27.1' and a rock at lat. 60° 17.3', long. 147° 28.0'. All three of which lie within the project limits.

Field work prior to compilation was limited to the recovery establishment and identification of horizontal control necessary for bridging.

The original project, designated 21423(3), was bridged at the Washington Science Center by analytic methods in February, 1965. This bridge did not yield a sufficiently satisfactory solution and resulted in a Preliminary Classification for all compilation drived from it. This compilation took place at the Portland Photogrammetric Office during March and April, 1965. All preliminary data including the base maps and ratio photography was later destroyed.

Incomplete maps were produced at the Atlantic Marine Center from a new bridge run in November, 1965. Compilation was by Kelsh instrument and graphic methods.

Details were delineated on the north margins of T-12716 and T-12718. This was necessary because of a lack of map coverage in these areas.

Map T-12701, a 1:20,000 scale map, was cancelled.

A partial field edit was done on maps T-12671 and T-12699 in May 1975. A complete edit was done for the details shown on T-12664 at the same time. Field edit was cancelled for all the remaining maps in the project. However, the field editor did give the height of three rocks and the identification of a small gravel beach area on T-12714, which was applied.

Final review was performed at the Atlantic Marine Center. The original base manuscripts were forwarded to the Rockville office in September, 1977 for final registration.

FIELD INSPECTION REPORT

T-12703

There was no field inspection prior to compilation.

Photogrammetric Plot Report No. 2 Montague Island, Alaska PH-6410 November 1965

This report supersedes the plot report on Montague Island dated February 1965.

21. Area Covered

This report pertains to Montague and Green Islands, Alaska (Zone 3). The sheets covered are T-12660 through T-12666, T-12671 and T-12699 through T-12721.

22. Method

Four strips were bridged by analytic aerotriangulation. Three of the strips had been bridged in January 1965, but the control furnished at that time was inadequate. New control has since been furnished and it was necessary to remeasure only the models in which the new control appeared.

Strips #1, #3, and a strip covering Green Island were adjusted to ground in the normal manner. Strip #2 was adjusted to ground with common points transferred from Strip #1. Common points were also transferred from Strip #1 to the 1:30,000 scale photography that is to be used by compilation. The common points are 180 micron drill holes and there are four per model.

23. Adequacy of Control:

The new control was adequate, however, it was not possible to identify the sub-points of RIVER 2, 1955, or VIC, 1933, on the bridging photography. The use of these stations was not necessary for a satisfactory adjustment.

Sub-point "A" of JUAN, 1965, would not hold with its companion station, sub-point "B". Each sub-point was used in a preliminary straight line adjustment of the strip and sub-point "B" was found to fit well with the other control stations in the strip, while sub-point "A" was so far out of line that we strongly suspect a misidentification.

24. Supplemental Data

Approximate elevations were taken from U.S.G.S. topographic quadrangles to satisfy the requirements of the horizontal-vertical strip adjustment program.

25. Photography

The photography was adequate.

Respectfully submitted:

Don O. Norman

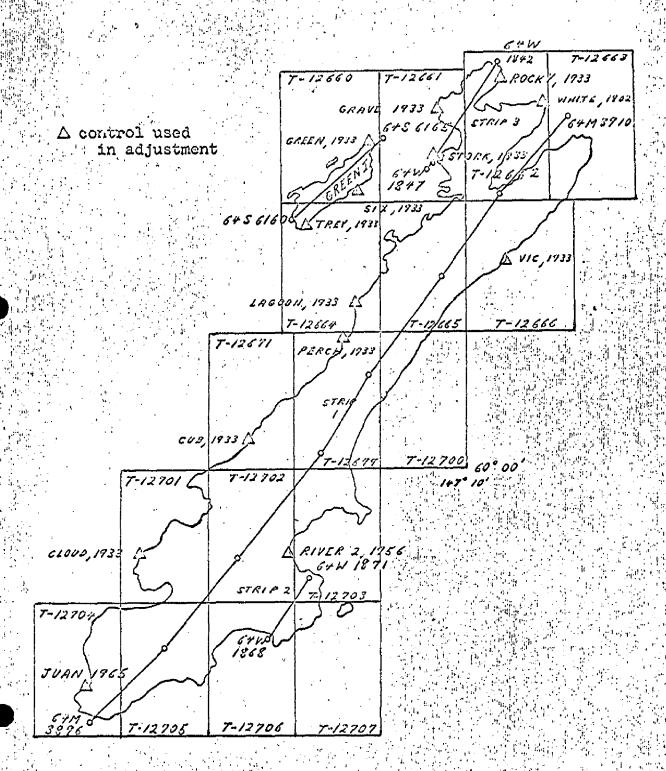
Approved and forwarded:

Henry P. Eichert

Acting Chief, Aerotriangulation Section

STRIP #1 ▲ used in adjustment JUAN, 1965 ∆ used as check △ sub station "A" ▲ sub station "B" -45.1 +23.9 - 1.0 : - 0.1 CLOUD, 1933 △ sub station "A" + 8.8 + 1.1 + 1.3 A sub station "B" CUB, 1933 △ sub station "A" - 7.0 ▲ sub station "B" PERCH, 1933 RM #3 A sub station "A" -1.9 + 0.1△ sub station "B" -00.2 - 1.1 LAGOON, 1933 ▲ sub station "A" - 0.2 + 3.0 ∆ sub station "B" + 3.6 +11.9 WHITE, 1902 △ sub station "A" +14.0 ▲ sub station "B" - 0.9 + 0.5 STRIP #2 (adjusted on tie points from Strip #1) **▲** 14401 +0.4 -0.3 **1**4402 -0.8: · +0.8 **14403** +0.9 -1.2 -0.4 **▲** 14404 +0.4 STRIP #3 ROCKY, 1933 -△ sub station "A" 2.0 - 2.0 ▲ sub station "B" 0.0 0.0 GRAVE, 1933 ▲ sub: station "A" 0.0 ∆sub station "B" -1.8- 1.0 STORK, 1933 △direct + 2.1# 0.1 0.0 ▲ sub station : GREEN ISLAND TREY, 1933 ▲ sub station "A" 0.0 0.0 \triangle sub station "B" - 0.3 SIX, 1933 RM #2 △ sub station "A" ▲ sub station "B" 1.9 + 0.6 0.0 GREEN, 1933 ▲ sub station "A" Sub station "B" - 0.4

AEROTRIANGULATION SKETCH
MONTAGUE ISLAND
PH-6410
November, 1965



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NOAA FORM 76-41 (6-75)				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	. DEPARTMENT O	F COMMERCE
		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD			
MAP NO.	JOB NO.			ORIGINATING ACTIVITY	VITY AMC	
T-12703	PH-6410	10	NA 1927	Coastal Mapping	Div	rfolk, VA
STATION NAME	SOURCE OF	AEROTRI-	COORDINATES IN FEET STATE ALASKA	1		
	(Index)	NUMBER	ZONE # 3		FORWARD	BACK
BIVER 2 1956	G.P. Vol 6		አ።	\$ 59 54 43,381	1342.6	(514.3)
6~ ,,,,,,	P. 376		<i>ή</i> =	λ 147 29 47.742	742.0	(190.5)
MOODED 2 1965 (PEND)	Travs.		x= 2,149,086.97		9086.97	(913.03)
(u.a.i.) () (; a.a.i.) (; a.a.i.)	Form 738		y = 245,600.06	γ	5600.06	(4399.94)
7 ISLE 2. 1965 (TEMP.)	Travs.		x = 2,151,173.89	ф	1173.89	(8826.11)
	Form 738		y= 252,908.01	γ	2908.01	(7091.99)
			χ=	ф		
			y=	۲	; 	
			-χ	ф		
			ή=	۲	<u></u>	
			-χ	φ		
			y=	γ		
			χ=	ф		
			y≃	γ	İ	
			χ=	ф		!
			<i>μ</i> =	γ		!
			-χ	ф		
			<i>y</i> =	γ	<u></u>	
				φ	;	
			y=	γ		
computed BY A. C. Rauck, Jr.		PAT/18/68	COMPUTATION CHECKED BY B	. Wilson	DATE 11/	11/27/68
LISTED BY		DATE	LISTING CHECKED BY		DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE	
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.		9

COMPILATION REPORT

T-12703

31. DELINEATION:

The Kelsh Plotter was used except that certain areas covered by models that could not be oriented with the Kelsh were done grphically. These areas were: (1) the WOODED ISLANDS along the south limit of the map and east of Longitude 147° 25', (2) the NE tip of the major point of the land mass of the SW quarter of the manuscript, and (3) the area from Latitude 59° 59' north to the 60° line. There was only monoscopic coverage (with the ratio photos) of small parts of each of these areas; nevertheless, the photography and the compilation is believed to be satisfactory.

As usual some of the details were not completed with the Kelsh but graphically.

32. CONTROL:

See Photogrammetric Plot Report No. 2, herewith, dated November, 1965.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours-inapplicable.
Drainage-see item 31.

35. SHORELINE AND ALONGSHORE DETAILS:

See Item 31.

36. OFFSHORE DETAILS:

See Item 31.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Satisfactory junctions have been made with:

T-12699 to the north.

T-12702 to the west.

T-12707 to the south.

There is no contemporary survey of the water area to the east, so the compilation in 2 places extends beyond the "neat line".

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

41. COMPARISON WITH HYDROGRAPHIC SURVEYS:

Comparison has been made with H-5460 dated 1933, on Valdez Datum, scale 1:20,000 and with H-8312 dated 1956 and 1957, on NA 1927 datum, scale 1:20,000.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle BLYING SOUND (D-1 and D-2), ALASKA, dated 1953, scale 1:63,360.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart 8515, scale 1:81, 436, published Nov. 1935 (7th edition) revised to 2/14/49.

ITEMS TO BE APPLIED TO NAÚTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Albat C. Ranck. J. FOR. B. Wilson

Cartographic Technician

Approved: f

albert C. Rauck. J.

Albert C. Rauck, Jr. Chief, Coastal Mapping Section, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6410 (Montague Island, Alaska)

T-12703

Box Island <

Box Point <

Fish Island 🕑

Gulf of Alaska ~

Montague Island 🕑

Nellie Martin River /

Patton Bay 🔽

Wooded Islands /

Approved by:

Charles E. Harrington Staff Geographer - C51x2

FORM C&GS-1002				U.S. DEPARTMENT OF COMMER ES
	PHO		RIC OFFICE REVIEW 12703	COAST AND GEODETIC SURV
I. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
RJР		WP.	RJP	RJP
CONTROL STATIONS	-1		102	1002
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF	6. RECOVERAL	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
	ACCORAC Y	(Topographic	stations)	1
RJP 8. BENCH MARKS	19. PLOTTING	OF SEXTANT	NA 10. PHOTOGRAMMETRIC PLOT REPORT	NA
	FIXES		PLOT REPORT	
NA	1	IA	RJP	RJP
ALONGSHORE AREAS (Nautice				
12. SHORELINE	13. LOW-WATE	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RJP	F	IJP	RJP	RJP
16. AIDS TO NAVIGATION	17. LANDMAR	(\$	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
TT.	_			
RJP	<u> </u>	JP	RJP	RJP
PHYSICAL FEATURES 20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOU
RJP		<u> </u>	NA	NA
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOUR	S IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	N	IA	NA	RJP
CULTURAL FEATURES		·	1 12	
27. ROADS	28. BUILDING	•	29. RAILROADS	30. OTHER CULTURAL FEATURES
RJP	R	JP	RJP	RJP
BOUNDARIES 31. BOUNDARY LINES			32, PUBLIC LAND LINES	· · · · · · · · · · · · · · · · · · ·
	NA		VII I SOCIO ENNO EINES	NA
MISCELLANEOUS	1411		<u> </u>	Ith
33. GEOGRAPHIC NAMES	•	34. JUNCTION	S	35. LEGIBILITY OF THE MANUSCRIPT
RJP			RJP	RJP
36. DISCREPANCY OVERLAY	37. DESCRIPT	VE REPORT	38. FIELD INSPECTION	39. FORMS
	_	_		
RJP	<u> R</u>	JP	NA NA ISUPERVISOR, REVIEW SEGTI	RJP
	rch. h. F.	OR.	Albert C. Ra	2 / 1
R. J. Pate		2/69	A. C. Rauck, Jr.	11/1
11. REMARKS (See attached she	et)			
FIELD COMPLETION ADDITIO				
script is now complete ex	s furnished by the cept as noted un	ne field complet der item 43.	ion survey have been applied	to the manuscript. The manu-
COMPILER	. ,		SUPERVISOR	
43. REMARKS		. <u></u>	<u> </u>	
FIELD EDIT	CANCELLED	8/06/75		
		, , , ,		

REVIEW REPORT

T-12703

SHORELINE

July 21, 1977

61. GENERAL STATEMENT:

See Summary, which is Pages 6a and 6b of this Descriptive Report. No field edit was performed.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with a copy of T-8470, 1:20,000 scale, compiled on the Valdez Datum from photography dated June 1943. Fish Island and Box Island are now plotted about 100 meters east of the positions shown on T-8470. The shoreline of Montague Island shown on T-12703 is consistently seaward of that shown on T-8470. This difference is attributed to the effects of the 1964 earthquake.

T=12703 supersedes T=4870 for nautical chart construction purposes in those areas where comparison was made. A.L.s.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle BLYING SOUND (D-1 and D-2), ALASKA, 1:63,360 scale, dated 1953. The entire shoreline shown on T-12703 was observed to be seaward of that shown on the quadrangle.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic surveys were conducted within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 16701, 1:80,000 scale, 11th edition, dated March 10, 1973. The shoreline shown on the chart is consistently inshore of that shown on T-12703. This area was uplifted by the 1964 earthquake.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted by:

Q. I. S. Lands.

A. L. Shands Final Reviewer

Approved for forwarding:

oresh Worasek

Joseph W. Vonasek

Chief, Photogrammetric Branch, AMC

Approved:

Whief, Photogrammetric Branch Chief, Coastal Mapping Division