NOAA FORM 76-35 (6-80)

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

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED
Map No. Edition No.
T-13131 1
Job No.
PH-6401
Map Classification CLASS III (FINAL)
Type of Survey SHORELINE
LOCALITY
State HAWAII
General Locality HAWAII ISLAND, WEST COAST UPOLO POINT TO KAILUA
Locality PUAKO BAY
1969 TO 19
REGISTERED IN ARCHIVES
DATE

					
NOAA FORM 76-36A (3-72) NATIONAL	U. S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMIN	.[]	YPE OF SURVEY	SURVEY	<u> 13131</u>
	•	Q	ORIGINAL	MAP EDITI	ON NO. (1)
DESCRIPTIVE REP	ORT - DATA RECORD		RESURVEY	MAP CLAS	sIII (Final)
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PHOTOGRAMMETRIC OFFICE		+		_ 	
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Norfolk, VA	,	! _ ¹	TYPE OF SURVEY		PH
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Richard Houlder		<u>L</u> -	RÉVISED	19TO 1:	9 <u></u>
I. INSTRUCTIONS DATED					
1. 0	OFFICE	. 	2.	FIELD	
Compilation	September 12, 1968	Co	ontrol/Field In	spection	April 29,
Supplement No. 1	February 11, 1969				1964
Compilation	March 11, 1969				
Supplement No. 2	December II, 1969	ł			
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II. DATUMS		OTH	ER (Specify)		
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2. VERTICAL:	MEAN LOW-WATER				
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5. SCALE		STAT	ľE	ZONE	
1:5,000	· ·_ ·	<u></u>		<u> </u>	· -
III. HISTORY OF OFFICE OPERA	TIONS				
<u> </u>	RATIONS	<u></u>	NAME		DATE
1. AEROTRIANGULATION	вү		Brant		Oct 1971
METHOD: analytical	LANDMARKS AND AIDS BY	H.	Eichert		Oct 1971
2. CONTROL AND BRIDGE POIN			Brant		Oct 1971
метнор: coradomat	CHECKED BY		Eichert		Oct 1971
3. STEREOSCOPIC INSTRUMENT			White		Jan 1972
COMPILATION	CHECKED BY		Shands		Jan 1972
INSTRUMENT: Wild B-8		1 - 37 -			
scale: 1: 5.000 4. MANUSCRIPT DELINEATION	CHECKED BY PLANIMETRY BY	⊢N/#			Ten 1070
4. MANOSCINE DELINEATION	CHECKED BY		White		Jan 1972 Feb 1972
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метнор: smooth draft	ed checked by	N/Z			
	HYDRO SUPPORT DATA BY		White		Jan 1972
SCALE: 1:5,000	CHECKED BY		Rauck		Feb 1972
5. OFFICE INSPECTION PRIOR 1			Rauck		Feb 1972
4 Application of 5:5:5 =	BY	Non			
6. APPLICATION OF FIELD EDI	T DATA CHECKED BY	Non			
7. COMPILATION SECTION REVI	E₩ BY	↓A.	Rauck		Feb 1972
8. FINAL REVIEW	(Class III) BY	<u> </u>	Hancock	<u> </u>	Nov 1986
9. DATA FORWARDED TO PHOTO	OGRAMMETRIC BRANCH BY		Hancock		Mar 1987
10. DATA EXAMINED IN PHOTOGI		<u>P.</u>	Dempsey		may 1987
11. MAP REGISTERED - COASTAL	SURVEY SECTION BY	$+E_{i}$	I. DAUGHERI	? Y	MAY 1987

NOAA FORM 76-36B (3-72)		COM	T-1	3131		ANIC AND ATMOSP	RTMENT OF COMMERCI HERIC ADMINISTRATION TIONAL OCEAN SURVEY
1. COMPILATION PHOTO	GRAPHY						
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63s(P) - 7919 -	- 7921*	Aug 31, 1963	08:5	1	1:30,000	0.7 ft al	bove MLLW
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3. SOURCE OF MEAN LO				INE:			
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4. CONTEMPORARY HY							survey information.)
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None							l

5. FINAL JUNCTIONS T-12533 (1:10,000 sc.) T-12535 souтн <u>*</u> T-12534 & T-12535 WEST west T-12534

REMARKS

* This 1:5,000 scale inset map is contained within the limits of sheets T-12534and T-12535, both at 1:10,000 scale.

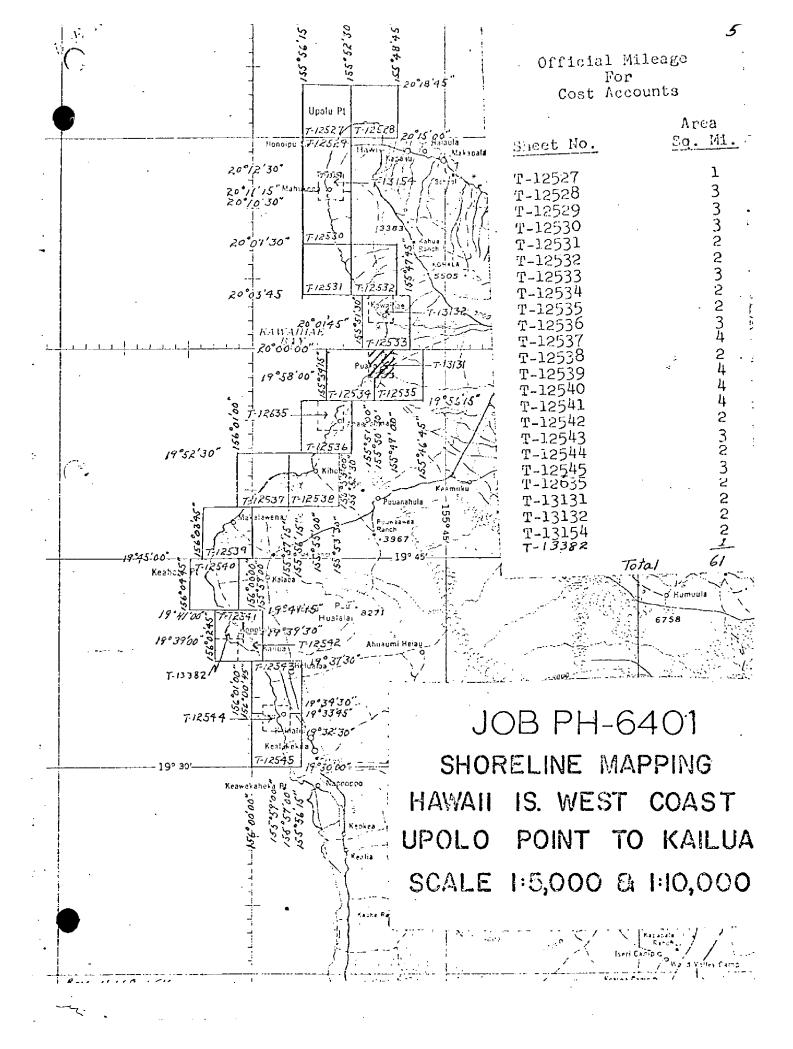
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I. X FIELD INSPECTION OPERATION *None Note Re	FIELD	EDIT OPERATION		
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7. SUPPLEMENTAL MAPS AND PLANS				
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(3-72)	.		3131 F FIELD (NATIONAL OCEA		MOSPHER	IC ADMIN	COMMERCE ISTRATION AN SURVEY
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_		ECOVERED (Triangulation Sta	ations) BY					
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NOAA FORM 76-36D (3-72) U. S. DEPARTMENT OF COMMERCE

T-13131

		RECO	RD OF SURVE	Y USE		ı
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Final Re	view	Nov 1986	Final Clas	ss III Maj	p mar 1987	mar 1987
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II. LANDMAR	KS AND AIDS TO NAVIGAT	ion None				
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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-13131

This 1:5,000 scale final Class III shoreline map is one of twenty-three maps that comprise PH-6401, Hawaii Island, Hawaii, West Coast, Upolo Point to Kailua. The project consists of seventeen 1:10,000 scale maps (T-12527 thru T-12541, T-12543, T-12545) and six 1:5,000 scale inset maps (T-12542, T-12544, T-12635, T-13131, T-13132, T-13382).

The purpose of this inset map was to provide current shoreline data for maintenance of the large scale marine chart (19330) of Kawaihae Bay, Hawaii Island.

Photo coverage for the project was adequately provided in August/September 1963 using the Wild RC-8 "S" camera. Photography consisted of 1:30,000 scale panchromatic photographs used for field inspection and aerotriangulation. The 1:20,000 and 1:15,000 scale color photographs were used for compilation and hydro support. The 1:20,000 scale photo coverage was obtained for the 1:10,000 scale maps and the 1:15,000 scale photographs provided coverage of the 1:5,000 scale inset maps. Additional color photographs at 1:15,000 scale were obtained in February 1969 with the Wild RC-8"E" camera. These photographs were bridged and a supplemental plot report was prepared in order to compile three 1:5,000 scale inset maps (T-13131, T-13132 and T-12635). The stage of tide for all project photographs was based upon predicted tide data. No infrared photographs were provided.

Field work prior to aerotriangulation consisted of the recovery and establishment of horizontal control by photoidentification methods. Photoidentification of the original 1963 photographs was sufficient for transferring control to the 1969 photography which was used to compile this inset map. The photoidentification and a field inspection of the 1963 photographs was performed in May/June 1964. No field inspection was accomplished for the 1969 photographs.

Analytic aerotriangulation was adequately provided by the Washington Science Center in three phases. Initial bridging activity was accomplished for seven of the northern project maps in June 1966. The second phase was conducted for the remaining project maps in February 1969. The final bridge, which includes this map, was provided in October 1971 for the 1969 photo coverage of three 1:5,000 scale inset maps. Aerotriangulation activity included ruling the base manuscripts and also provided ratio photographs for the compilation and hydrographic/field edit operations.

Compilation for this map was performed at the Coastal Mapping Section, Atlantic Marine Center in February 1972. Prior to compilation, two common smaller scale maps (T-12534 and T-12535) which contain this inset map, had been previously compiled and field edited in conjunction with contemporary hydrography. Subsequently, the Class I maps (T-12534 and T-12535) were compared to the 1969 photography when compilation for

T-13131

this map was achieved. Primarily, the common mapping area was delineated the same except for a few extra alongshore rocks that were apparent on the 1969 photography.

Field edit was not performed for this map. Hydrographic/field edit activity was completed in the area in 1969 through 1971 when field edit was accomplished for the 1:10,000 scale maps T-12534 and T-12535.

Final review was performed at the Atlantic Marine Center in November 1986. Though this sheet had been considered a Class I map, it was reclassified during final review as Class III. A comparison was made with the common hydrographic surveys (H-9018 and H-9234), though they are not considered contemporary. The original base manuscript and related data along with a final Chart Maintenance Print and a Hydrographic Print were forwarded to the Washington Science Center for registration and distribution.

FIELD INSPECTION T-13131

There was no field inspection performed for this map. However, some select data from the common smaller scale maps, T-12534 and T-12535 was compiled. Refer to the Summary of this Descriptive Report.

Photogrammetric Plot Report PH-6401 Hawaii Island, Hawaii Feb. 4, 1969

21. Area Covered

The area covered by this report is along the northwest coast of Hawaii Island. T-sheets in this area are numbered 12534 thru 12541, 12543, and 12545 at 1:10,000 scale. T-sheets 12542, 12544, 12635, 13131 and 13132 at 1:5,000 scale. Sheets T-12527 thru 12533 and 13154 were covered by a previous report on Strips #1 and #2.

22. Method

All strips were bridged on the stereoplanigraph and adjusted by IBM 1620 methods. Strip #3 was adjusted on four stations with two additional stations as checks. Strip #4 was adjusted on seven stations with two additional stations as checks. Strip #6 was adjusted on two control points plus 7 tie points. Strip #7 was adjusted on one control station and three tie points. Strip #8 was adjusted on three control stations and three tie points. All tie points between strips were averaged. Points were drilled using the Wild PUG.

23. Adequacy of Control

The control provided by the field was adequate after reidentification of Anaehoomalu 1913, Lana Cone, 1913 and the identification of Hand, 1928 and Nawai 1928. The following stations could not be held in the bridging adjustments.

- 1. LAVA CONE, 1913, SS #A and SS #B ("NEAR"). By holding. four triangulation stations and floating substitute stations "NEAR A AND B", a 1 ft. check was achieved between these substitute stations and placed LAVA CONE, 1913 80 ft. north of survey mark "NEAR" and on the high point of the immediate area. This bares out the field recovery note for station LAVA CONE 1913 that the survey mark "NEAR" and intersection station LAVA CONE, 1913 are not one and the same. Geodesy Division has been notified of our findings and the bridging information added to their files.
- 2. KEEI SOUTH BASE, 1948 SS #1 and SS #2 could not be held in Strip #4 by 11' and 16' respectively. It is believed these errors are due to bad identification, since seven other stations were held in the adjustment. This station falls in Strip #4 but is outside of the PH-6401 area of compilation.

24. Supplemental Data

Local USGS quads were used to provide vertical points needed for the strip adjustment program.

25. Photography

Photography was not adequate to provide coverage of the 1:5,000 scale sheets with the exception of T-12542. This inadequate coverage was caused by a change in the limits of the 1:5,000 areas after bridging was nearing completion. Photography was adequate in regard to definition and overlap.

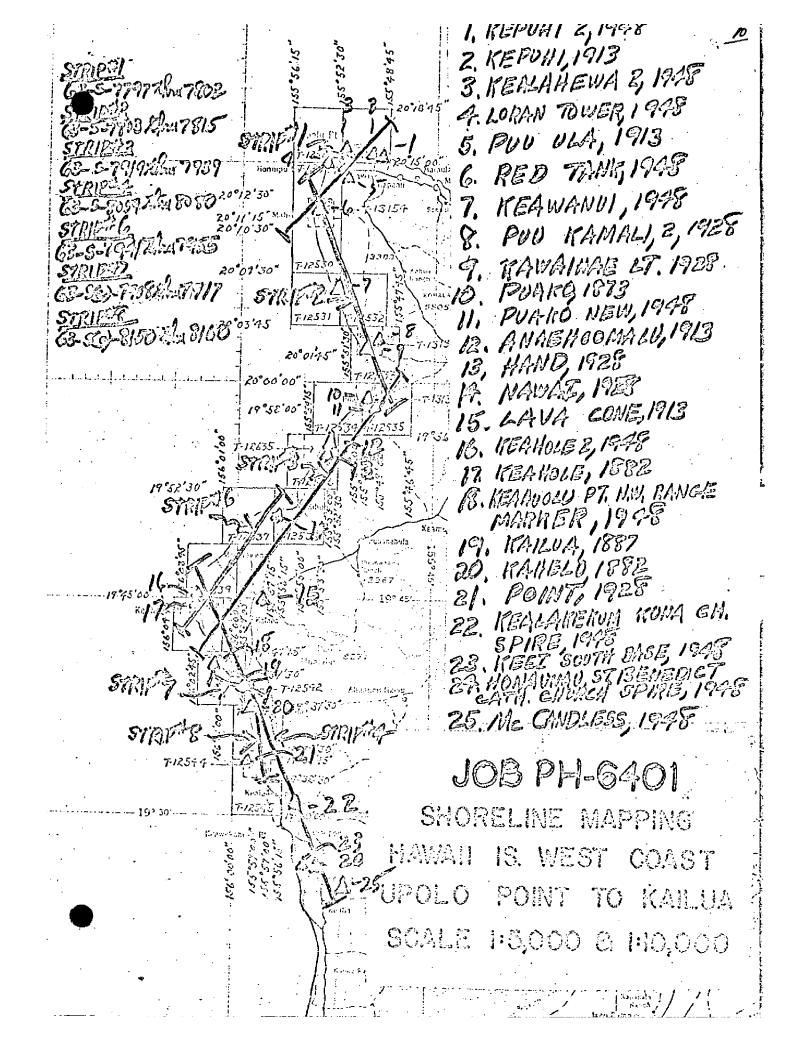
Submitted by,

John D. Perrow, Jr

Approved by,

Henry P. Eichert

Chief, Aerotriangulation Section



SUPPLEMENTAL
PHOTOGRAMMETRIC PLOT REPORT
Hawaii Island-West Coast
Upolo Point to Kailua
Job PH-6401
October 1971

21. Area Covered

The area covered by this report is along the northwest coast of Hawaii Island. Control was extended for the compilation of three (3) T-sheets (T-13131, T-13132 and T-12/35) at 1:5,000 scale.

22. Method

Parts of strips #2 and #3 (1:30,000 scale photography) were bridged using analytical aerotriangulation methods. Ties were made between the two strips and also with the previous stereoplanigraph bridges which were used for the 1:10,000 scale compilation. Common points between the 1:30,000 scale photography and the 1:15,000 scale photography were located for the 1:5,000 scale compilation and hydro support photographs. The attached sketch shows the strips of photography and the placement of the control used in the bridge. Compilation points for the 1:5,000 compilation were plotted by the Coradomat on the Hawaii zone 1 plane coordinate system.

23. Adequacy of Control

Horizontal control was adequate (see previous Photogram-metric Plot Report).

24. Supplemental Data

USGS quadrangles were used to provide vertical control for the strip adjustments.

25. Photography

The following 1:30,000 scale RC-8 panchromatic photography was used in bridging:

Strip #2 - 63-S-7809 thru 7815

Strip #3 - 63-S-7920 thru 7928

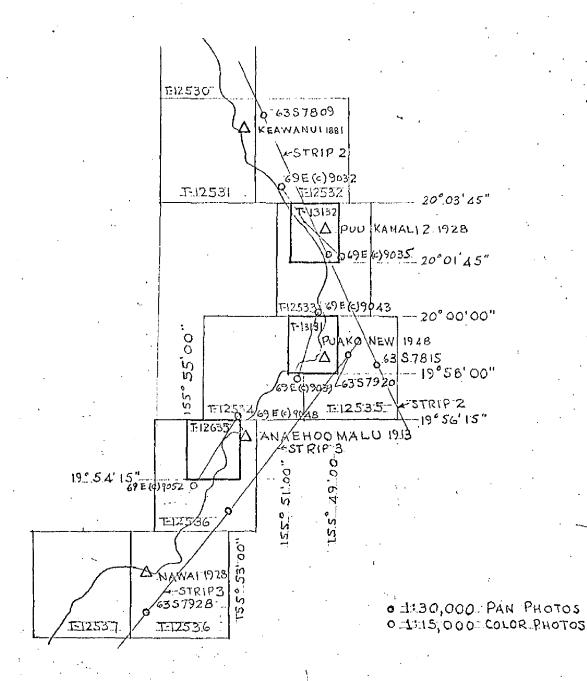
The definition and quality of photography was adequate.

Respectively submitted: 7

Donald M. Brant

Approved by:

Henry P. Eichert, Chief Aerotriangulation Section



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JOB PH-6401 SHORELINE MAPPING HAWAII IS WEST COAST UPOLO POINT TO KAILUA

NOAA FORM 41 (6-75)				ONATIONAL	U.S. D	U.S. DEPARTMENT OF DAMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD			
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T-13131	PH-6401		Old Hawaiian Datum		AMC,	Norfolk, VA
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computeb by J. Bulfer		DATE 3/24/71	computation checked By Frank Margiotta			03/24/71
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.	HIS OBSOLETE.		

COMPILATION REPORT T-13131

31 - DELINEATION

Delineation was by instrument and graphic methods using the 1969 1:15,000 scale compilation photographs. Because the area covered by this sheet was field edited in 1969/1970 for common sheets T-12534 and T-12535 at 1:10,000 scale, field edit that was identifiable on the 1969 photographs was applied to this sheet during compilation.

Photograph quality and coverage were adequate.

32 - CONTROL

Refer to the Photogrammetric Plot Report, dated February 4, 1969 and the Supplemental Plot Report dated October 1971.

33 - SUPPLEMENTAL DATA

Control for this map is explained in the Supplemental Plot Report dated October 1971.

34 - CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was delineated from the compilation photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

The shoreline was delineated from office interpretation of the 1969 mapping photographs. Photo interpretation was assisted by examining the 1963 1:20,000 scale photography used to compile the previously compiled maps, T-12534 and T-12535.

36 - OFFSHORE DETAILS

There were no significant offshore details.

37 - LANDMARKS AND AIDS

There were no charted landmarks or fixed aids within the limits of this map.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5.

T-13131

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Reports dated February 4, 1969 and October 1971.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S Quadrangle, Puu Hinai, Hawaii, dated 1956, scale 1:24,000.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with USC&GS Charts 4167, scale 1:10,000, 3rd edition, dated Jun. 26, 1967;4140, scale 1:80,000, 3rd edition, dated Jan. 24, 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by

R. White

Cartographic Aid

January 1972

Approved

for Albert C. Rauck, Jr.

Dery I. Hancock

Chief, Coastal Mapping Section

GEOGRAPHIC NAMES FINAL NAME SHEET

PH-6401 (Hawaii)

T-13131

Hapuna Bay

Hapuna Beach Park--Not compiled

Hawaii Island

Kamakoa Gulch -----Not compiled

Kanekanaka Point

Kaunaoa Point

Kawaihae Bay

Ohai Point

Pacific Ocean

Puako

Puako Bay

Puako Point

Waialea Bay

Approved by:

A. Joséph Wraight Chief Geographer

Prepared by:

Frank W. Pickett Cartographic Technician

REVIEW REPORT T-13131 SHORELINE

61. GENERAL STATEMENT

Final review for this final Class III 1:5,000 scale inset map was accomplished at the Atlantic Marine Center in November 1986. Neither a field inspection nor field edit were performed for this map. For a schedule of the office and field operations, refer to the Summary included with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S Quadrangle Puu Hinai, Hawaii, dated 1956, scale 1:24,000.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a registered copy of hydrographic surveys H-9018, AR-10-7-68/PF-10-1-70, 1:10,000 scale, field surveyed 1969/1970 and H-9234, FA-5-1-71, 1:5,000 scale field surveyed 1971. Though the hydrographic surveys were conducted prior to compilation of this map, a comparison was made because they are contemporary to final maps T-12534 and T-12535 which are common to the mapping area at 1:10,000 scale.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with NOS charts 19330, scale 1:10,000, 7th edition, dated October 15, 1983; 19327, scale 1:80,000, 8th edition, dated September 5, 1981.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by

Jerry L. Hancock

Final Reviewer

Approved for forwarding

Bull H. Barnes

Chief, Photogrammetric Section, AMC

Approved

Chief, Photogrammetry Branch

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-13131, PH-6401

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Revie

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