

T-12635

T-12635

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. T-12635	Edition No. 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 ANAEHOOMALU BAY	
19 ₆₉ TO 19	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA		SURVEY TP.12635 MAP EDITION NO. (1) MAP CLASS III Final JOB PH. 6401	
OFFICER-IN-CHARGE Richard Houlder		LAST PRECEDING MAP EDITION TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19 __ TO 19 __	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Compilation September 12, 1968 Supplement No. 1 February 11, 1969 Compilation March 11, 1969 Supplement No. 2 December 11, 1969		Control/Field Inspection - April 29, 1964	
II. DATUMS			
1. HORIZONTAL: ☐ 1927 NORTH AMERICAN		OTHER (Specify) Old Hawaiian Datum	
2. VERTICAL: ☒ MEAN HIGH-WATER ☐ MEAN LOW-WATER ☐ MEAN LOWER LOW-WATER ☐ MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION Polyconic		4. GRID(S) STATE Hawaii ZONE 1	
5. SCALE 1:5,000		STATE _____ ZONE _____	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY D. Brant METHOD: <u>analytical</u> LANDMARKS AND AIDS BY H. Eichert			Oct 1971
2. CONTROL AND BRIDGE POINTS PLOTTED BY D. Brant METHOD: <u>coradomat</u> CHECKED BY H. Eichert			Oct 1971
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY R. White COMPILATION CHECKED BY L. Graves INSTRUMENT: <u>Wild B-8</u> CONTOURS BY N.A. SCALE: <u>1:5,000</u> CHECKED BY N.A.			Feb 1972 Feb 1972
4. MANUSCRIPT DELINEATION PLANIMETRY BY R. White CHECKED BY L. Graves METHOD: <u>smooth drafted</u> CONTOURS BY N.A. CHECKED BY N.A. SCALE: <u>1:5,000</u> HYDRO SUPPORT DATA BY R. White CHECKED BY L. Graves			Feb 1972 Feb 1972 -- -- Feb 1972 Feb 1972
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY L. Graves			Feb 1972
6. APPLICATION OF FIELD EDIT DATA BY None CHECKED BY None			
7. COMPILATION SECTION REVIEW BY L. Graves			Feb 1972
8. FINAL REVIEW (Class III) BY J. Hancock			Dec 1986
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY J. Hancock			Mar 1987
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY P. Dempsey			May 1987
11. MAP REGISTERED - COASTAL SURVEY SECTION BY E. L. DAUGHERY			MAY 1987

T-12635
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild R.C.-8"E"; E=152.71mm Wild R.C.-8"S"; S=152.29mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	☒ STANDARD ☐ DAYLIGHT
☒ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN	
135th					
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
69E(C) 9049-9052** 63S(P) 7923-7924*	Feb 25,69 Aug 31,63	11:24 08:55	1:15,000 1:30,000	0.4 ft above MLLW 0.7 ft above MLLW Mean Tide Range = 1.4 ft	

REMARKS * Bridging photographs ** Compilation photographs

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from office interpretation of the compilation photographs using stereo instrument methods.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

No mean lower low water line was compiled.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH T-12534 (1:10,000 scale)	EAST *	SOUTH *T-12536 (1:10,000 scale)	WEST *
REMARKS *This 1:5,000 scale inset map is contained within the limits of map T-12536 (1:10,000 scale).			

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HISTORY OF FIELD OPERATIONS

1. ☒ FIELD INSPECTION OPERATION ^{*None} ☐ FIELD EDIT OPERATION
Note remark in item #8.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY		
2. HORIZONTAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
3. VERTICAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY	
	LOCATED (Field Methods) BY	
	IDENTIFIED BY	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY BY ☐ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
none

2. VERTICAL CONTROL IDENTIFIED
none

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

none

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
none

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS
none

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

* Field inspection data for the common area portrayed on final map T-12536 (compiled from 1963 photography at 1:10,000 scale) was examined; however, no field inspection was performed for the 1969 photographs used to compile this inset map.

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

T-12635

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION *None

Note remark in item #8

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY		
2. HORIZONTAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
3. VERTICAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY	
	LOCATED (Field Methods) BY	
	IDENTIFIED BY	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	☐ COMPLETE	
	☐ SPECIFIC NAMES ONLY BY	
	☐ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
none2. VERTICAL CONTROL IDENTIFIED
none

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)
none

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

none

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

none

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

* Field edit data for the common area portrayed on final map T-12536 (compiled from 1963 photography at 1:10,000 scale) was applied to this inset map where features were identifiable on the 1969 compilation photographs.

T-12635
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation included the use of 1970 field edit data from common map T-12536 that was compiled from 1963 photography	Feb 1972	Class III manuscript		Feb. 1972
Final Review	Dec 1986	Final Class III Map	mar 1987	mar 1987

II. LANDMARKS AND AIDS TO NAVIGATION None

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: None3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

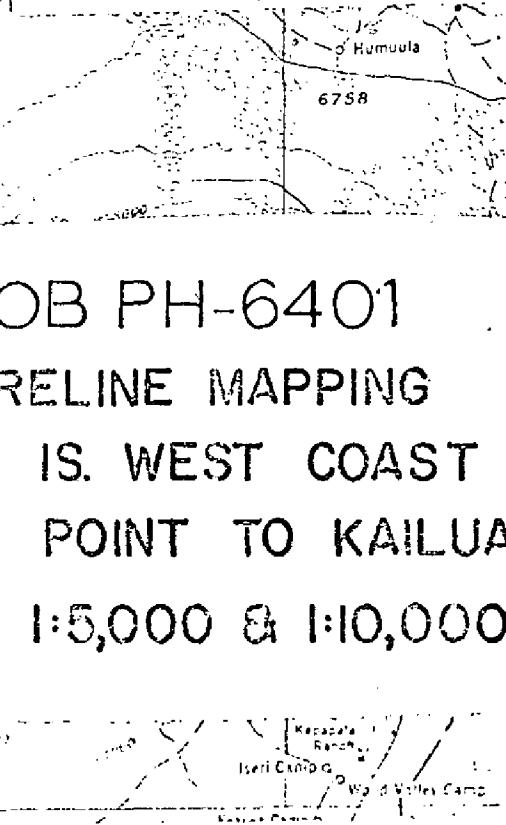
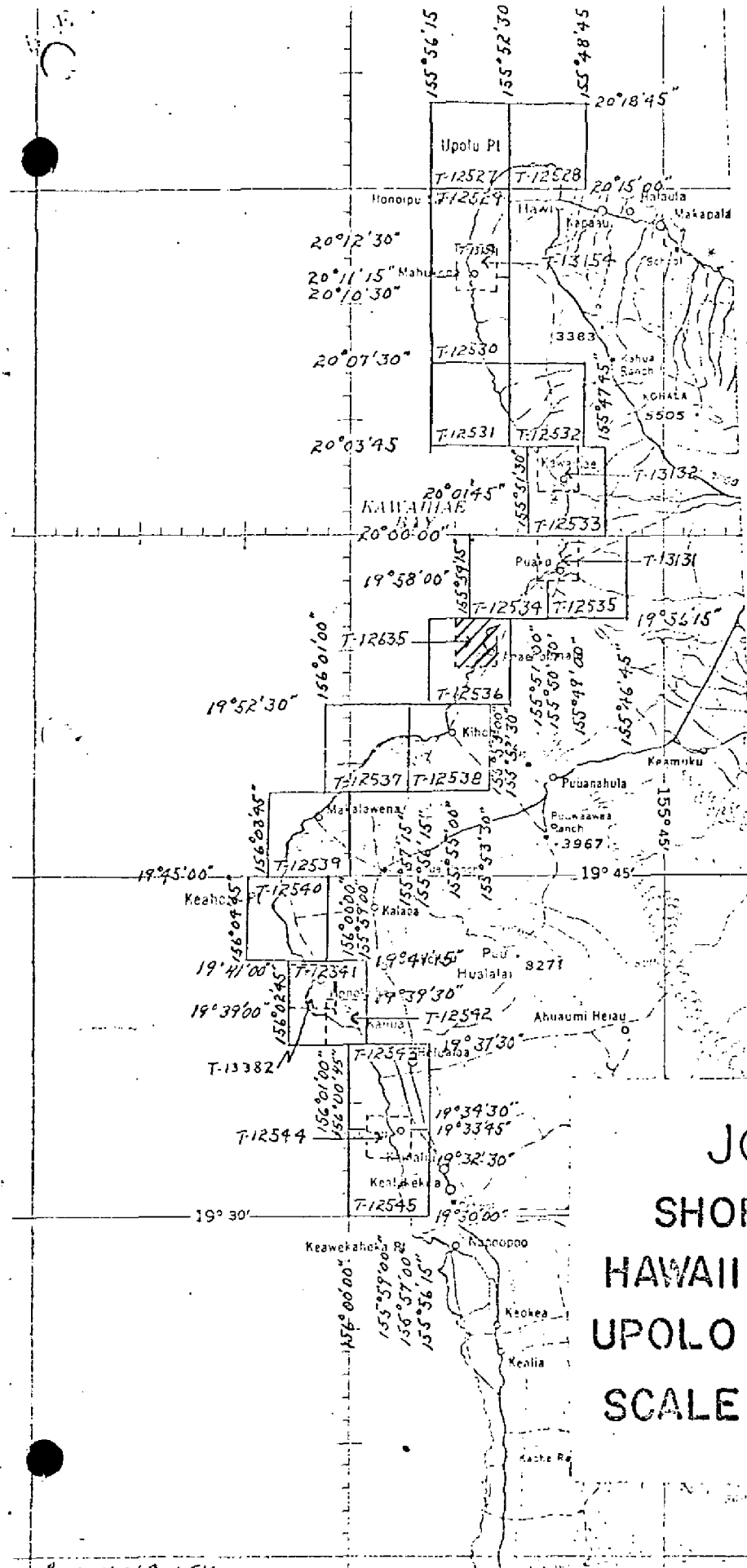
SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

<u>Sheet No.</u>	<u>Area</u> <u>Sq. Mi.</u>
T-12527	1
T-12528	3
T-12529	3
T-12530	3
T-12531	2
T-12532	2
T-12533	3
T-12534	2
T-12535	2
T-12536	3
T-12537	4
T-12538	2
T-12539	4
T-12540	4
T-12541	4
T-12542	2
T-12543	3
T-12544	2
T-12545	3
T-12535	2
T-13131	2
T-13132	2
T-13154	2
T-13382	<u>1</u>

Total 61

61

JOB PH-6401
SHORELINE MAPPING
HAWAII IS. WEST COAST
UPOLO POINT TO KAILUA
SCALE 1:5,000 & 1:10,000



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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12635

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 a large scale portrayal of Anaehoomalu Bay for marine chart maintenance.

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, the common smaller scale map T-12536, which encompasses this inset map, had been compiled and field edited in conjunction with contemporary hydrography. Subsequently, the Class I map (T-12536) was compared to the 1969 photography when compilation for this map was achieved.

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Primarily, the common mapping area was delineated the same except for a few additional alongshore rocks.

Field edit was not performed for this map. However, field edit was accomplished in 1970 for the common 1:10,000 scale map (T-12536) in conjunction with Hydrographic survey H-9131. Hydrographic survey H-9235, field surveyed in 1971, is also common to this map.

Final review was performed at the Atlantic Marine Center in December 1986. Though this sheet had been designated a Class I map, because the common map (T-12536) had previously been field edited, it was reclassified during final review as Class III. A comparison was made with the common hydrographic surveys, H-9131 & H-9235, though they were conducted prior to compilation. 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-12635

There was no field inspection performed for this map. However, some select data from the common smaller scale map, T-12536, was compiled. Refer to the Summary in this Descriptive Report.

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Photogrammetric Plot Report
PH-6401
Hawaii Island, Hawaii

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.

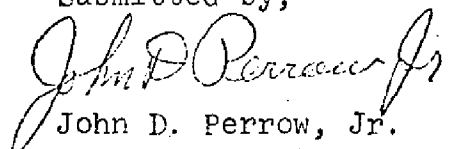
24. Supplemental Data

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

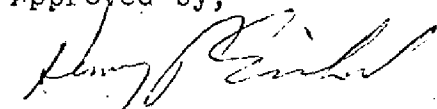
25. Photography

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.

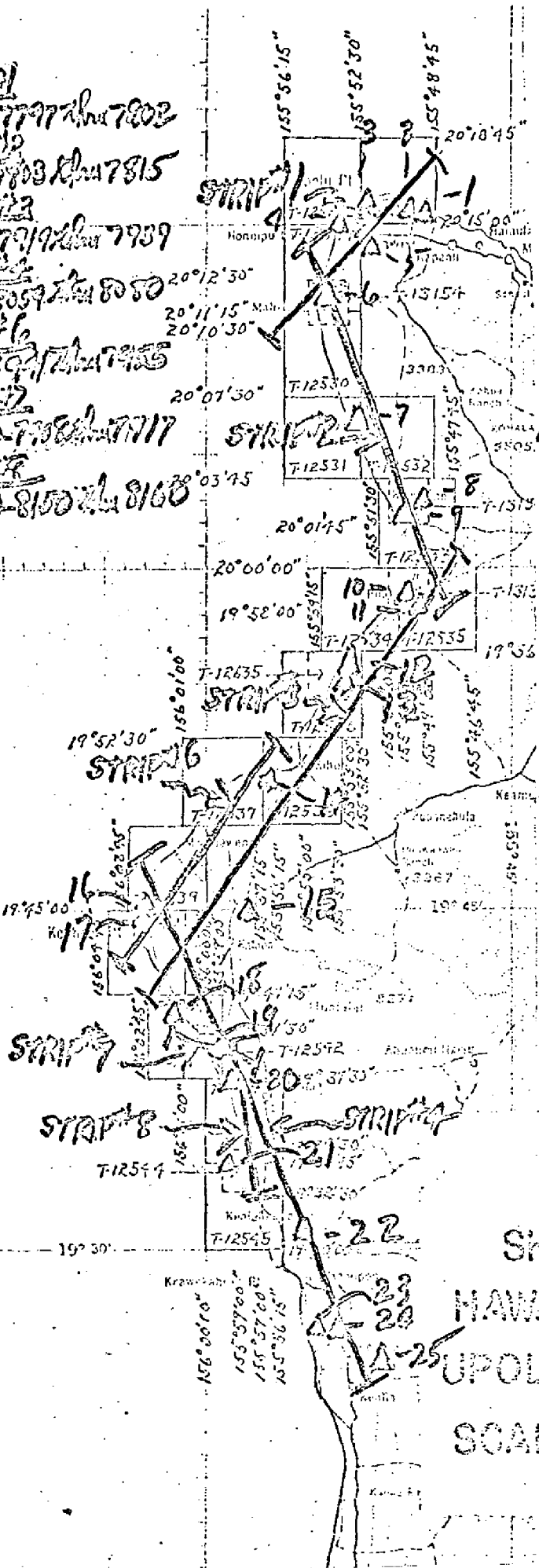
Submitted by,


John D. Perrow, Jr.

Approved by,


Henry P. Eichert
Chief, Aerotriangulation Section

STRIP 1
 68-5-7777 1/2 7802
 68-5-7783 1/2 7815
 STRIP 2
 68-5-7792 1/2 7839
 STRIP 3
 68-5-8059 1/2 8080
 STRIP 4
 68-5-8194 1/2 8155
 STRIP 5
 68-5-8304 1/2 8317
 STRIP 6
 68-5-8450 1/2 8460



1. KEOHUA 2, 1913
2. KEOHUA, 1913
3. KEALAHUWA 2, 1948
4. LORAN TOWER, 1948
5. PUU ULA, 1913
6. RED TANK, 1948
7. KEAWANDU, 1948
8. PUU KAMALI, 2, 1928
9. KAWAIAE LT. 1928
10. PUAKO 1873
11. PUAKO NEW, 1948
12. ANAEOHOMALU, 1913
13. HAND, 1928
14. NAWA, 1928
15. LAVA CONE, 1913
16. KEAHOE 2, 1948
17. KEAHOE, 1882
18. KEAHOE PT. NAV. RANGE MARKER, 1948
19. KAILUA, 1887
20. KAHLO, 1882
21. POINT, 1928
22. KEALAKERU KONA CH. SPIRE, 1948
23. KEEI SOUTH BASE, 1948
24. HONAUWAI ST. BENEDICT CATH. CHURCH SPIRE, 1948
25. MC CINDLESS, 1948

JOB PH-6401

SHORELINE MAPPING

HAWAII IS. WEST COAST

UPOLO POINT TO KAILUA

SCALE 1:5,000 & 1:10,000

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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-12835) 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 Photogrammetric 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:

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Strip #2 - 63-S-7809 thru 7815

Strip #3 - 63-S-7920 thru 7928

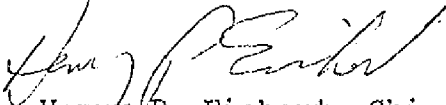
The definition and quality of photography was adequate.

Respectively submitted: ,

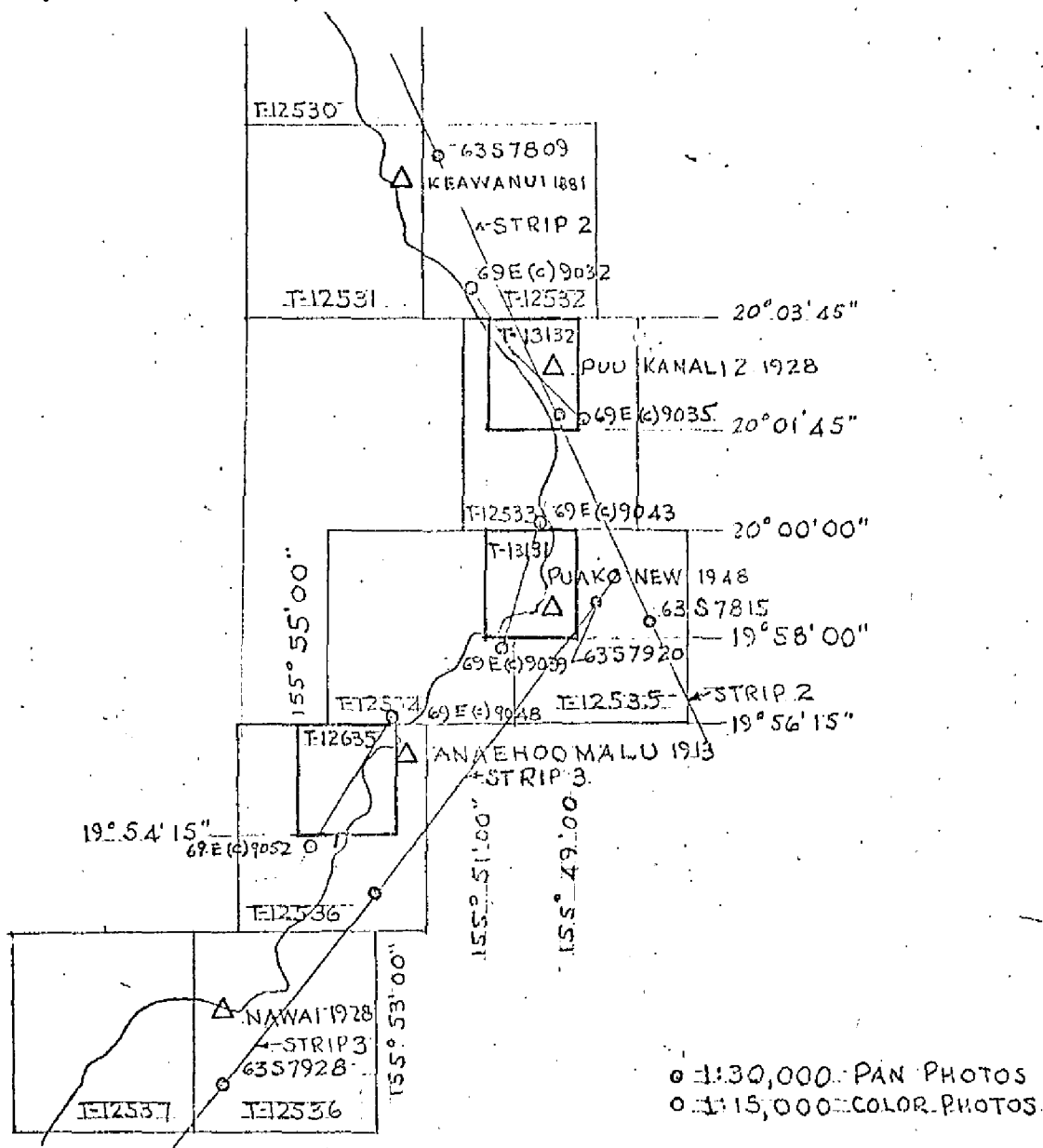


Donald M. Brant

Approved by:



Henry P. Eichert, Chief
Aerotriangulation Section



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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODEIC DATUM		ORIGINATING ACTIVITY		
		Old Hawaiian Datum	Coastal Mapping Division, AMC			
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	REMARKS
			STATE	ZONE		
ANAEHOOMALU, 1913			X=	11.690"	ϕ 19° 56'	
			Y=	13.522"	λ 155° 53'	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
COMPUTED BY R. R. White		DATE 2/8/72	COMPUTATION CHECKED BY H. Gann		DATE 2/8/72	
LISTED BY		DATE	LISTING CHECKED BY		DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE	

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

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COMPILATION REPORT

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31 - DELINEATION

Delineation was by instrument and graphic methods using the 1969 1:15,000 scale compilation photographs. The area covered by this sheet was field edited in 1970 for common sheet T-12536 at 1:10,000 scale. The field edit data 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 common map, T-12536.

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

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39 - JUNCTIONS

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

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 Anaehoomalu Hawaii, dated 1959, scale 1:24,000.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with USC&GS Chart 4140, scale 1:80,000, 3rd edition, dated January 24, 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Gerry L. Hancock

for R. White
Cartographic Aid
Date: February 1972

Approved:

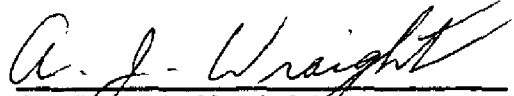
Gerry L. Hancock

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

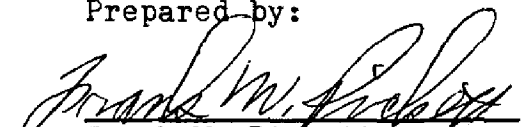
GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6401 (Hawaii)
T-12635

- Akahu Kaimu
- Anaehoomalu
- Anaehoomalu Bay
- Anaehoomalu Point
- Hawaii Island
- Kaauau Point
- Kahapapa Fishpond
- Kapalaoa
- Kuualii Fishpond
- Lae o Hiiaka
- Nawahine Rock
- Pacific Ocean
- Pohakulua
- Pohakuokeaha
- Waiulua Bay
- Lulahala Point

Approved by:


A. Joseph Wraight
Chief Geographer

Prepared by:


Frank W. Pickett
Cartographic Technician

REVIEW REPORT T-12635
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 December 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 Anaehoomalu, Hawaii, dated 1959, scale 1:24,000.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a registered copy of hydrographic surveys H-9131, PF-10-2-70, 1:10,000 scale, field surveyed 1970 and H-9235, FA-5-2-71, 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 map T-12536 which duplicates the mapping area at 1:10,000 scale.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with NOS chart 19327, scale 1:80,000, 8th edition, dated September 5, 1981.

The chart compared well with this manuscript.

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
Jerry L. Hancock
Final Reviewer

Approved for forwarding

Billy H. Barnes

Billy H. Barnes

Chief, Photogrammetric Section, AMC

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