

T-12537

T-125

NOAA FORM 76-35
(6-80)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Map No.

T-12537

Edition No.

1

Job No.

PH-6401

Map Classification

FINAL FIELD EDITED MAP

Type of Survey

SHORELINE

LOCALITY

State

HAWAII

General Locality

HAWAII ISLAND, WEST COAST, UPOLO POINT TO KAILUA

Locality

MAHEWALU POINT

19 63 TO 19 70

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 <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA		SURVEY TP-T-12537 MAP EDITION NO. (1) MAP CLASS Final JOB PH- 6401	
OFFICER-IN-CHARGE Richard Houlder		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> 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: <input type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify) Old Hawaiian Datum	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION polyconic		4. GRID(S) STATE ZONE Hawaii 1	
5. SCALE 1:10,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: stereoplanigraph LANDMARKS AND AIDS BY		J. Perrow H. Eichert	Feb 1969 Feb 1969
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: coradomat CHECKED BY		J. Perrow H. Eichert	Feb 1969 Feb 1969
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:10,000 CONTOURS BY CHECKED BY		C. Blood A. Shands N.A. N.A.	Aug 1969 Aug 1969 -- --
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: smooth drafted CONTOURS BY CHECKED BY SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY		C. Blood R. Smith N.A. N.A. C. Blood R. Smith	Aug 1969 Dec 1969 -- -- Aug 1969 Dec 1969
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		R. Smith	Dec 1969
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		S. Kumer F. Margiotta	Oct 1972 Oct 1972
7. COMPILATION SECTION REVIEW BY		F. Margiotta	Oct 1972
8. FINAL REVIEW 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. DAUGHERTY	MAY 1987

T-12537
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC- 8"S" S=152.29mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN	
135th					
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
63S(P)7950-7954*	Aug 31, 1963	09:08	1:30,000	0.6 ft above MLLW	
63S(C)8049-8054**	Aug 31, 1963	10:39	1:15,000	1.4 ft above MLLW	
				Mean Tide Tange = 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
H-9132	surveyed 1970	registered			

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No survey	T-12538	T-12539	No survey

REMARKS

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Newsom	June 1964
2. HORIZONTAL CONTROL	RECOVERED BY none	
	ESTABLISHED BY none	
	PRE-MARKED OR IDENTIFIED BY none	
3. VERTICAL CONTROL	RECOVERED BY none	
	ESTABLISHED BY none	
	PRE-MARKED OR IDENTIFIED BY none	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY none	
	LOCATED (Field Methods) BY none	
	IDENTIFIED BY none	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY E. Cline	June 1964
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY none	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
none		none	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

63(s) 7950, 7953 (matte contacts)

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)

none

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12537
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	E. Taylor	Feb 1970
2. HORIZONTAL CONTROL	RECOVERED BY none ESTABLISHED BY none PRE-MARKED OR IDENTIFIED BY none	
3. VERTICAL CONTROL	RECOVERED BY none ESTABLISHED BY none PRE-MARKED OR IDENTIFIED BY none	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY none LOCATED (Field Methods) BY none IDENTIFIED BY none	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY L. Riggers	Feb 1970
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY none	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
none		none	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

63(S)7951, 7953 (matte ratios, 1:10,000 scale)

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

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

1 field edit report and supplement to field edit report
1 field edit paper print

T-12537
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
compilation complete pending field edit	Dec 1969	(includes field insp.) Class III manuscript	Dec 1969	Dec 1969
Field edit applied compilation complete	Oct 1972	Class I manuscript		Mar 1973
Final review	Dec 1986	Final 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: _____

3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

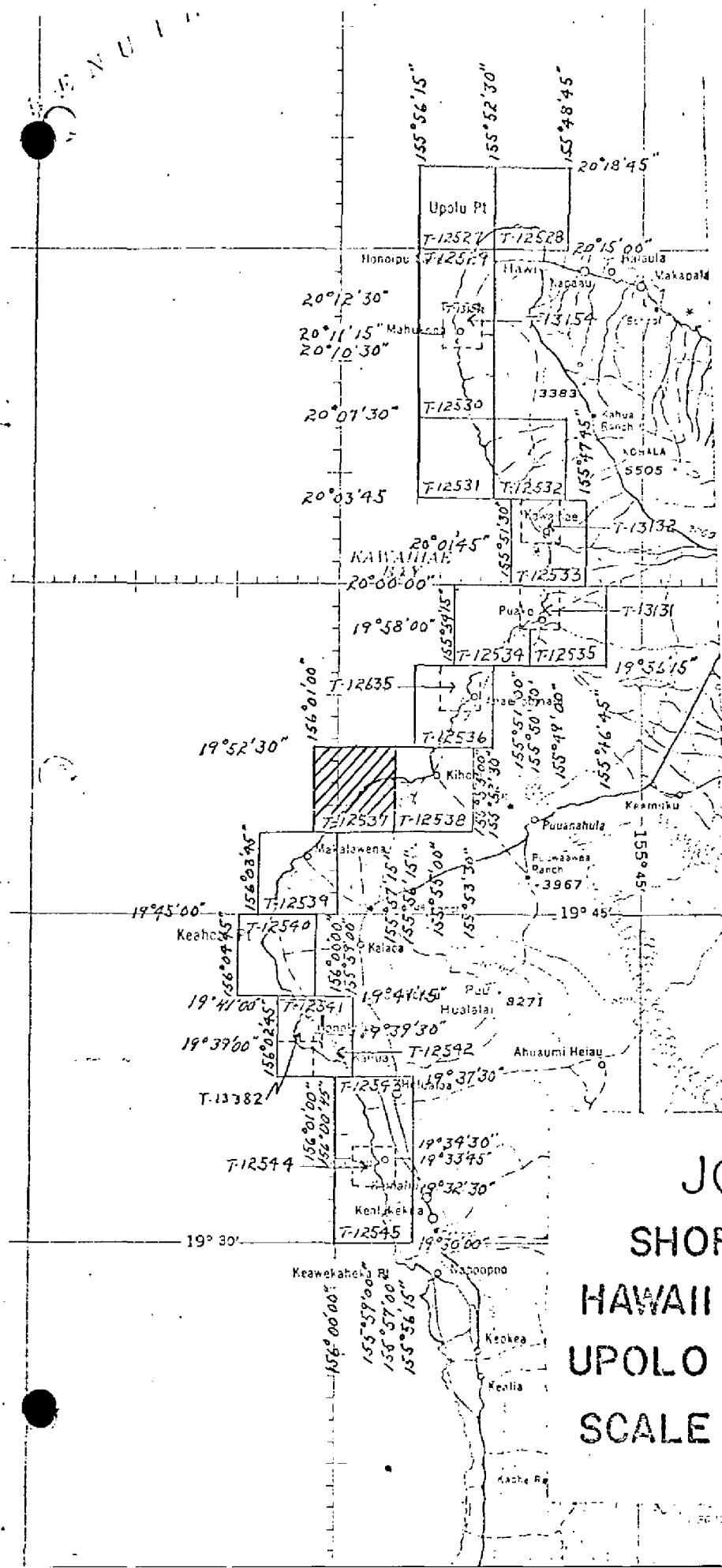
- ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
- ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
- ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:
- ☐ DATA TO FEDERAL 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 <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	

Official Mileage
For
Cost Accounts

Sheet No.	Area Sq. Mi.
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-12635	2
T-13131	2
T-13132	2
T-13154	2
T-13382	1
Total	61



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

Kailua Ranch
Island Chain Co.
Waipahoehoe Camp

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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12537

This 1:10,000 scale final 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 map was to furnish data in support of hydrographic operations and to provide current shoreline data for marine charts.

This map portrays a portion of shoreline along the northwest coast of Hawaii Island from Lat. 19° 48' 45" to Lat. 19° 51' 30".

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. In addition, a field inspection was performed for the project area utilizing the 1:30,000 scale photographs. This activity was conducted in May/June 1964.

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. A final bridge 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 December 1969. Copies of the manuscript and hydrographic support data were forwarded to the hydrographer for field edit. A copy of the manuscript was also submitted to the Marine Charts Section.

T-12537

Field edit was conducted in conjunction with hydrographic survey H-9132 by USC&GS Ship PATHFINDER personnel in February 1970.

Application of field edit was accomplished at the Atlantic Marine Center in October 1972 and the manuscript was advanced to Class I. Copies of the Class I manuscript were forwarded to the Hydrographic Surveys Branch.

Final review was performed at the Atlantic Marine Center in December 1986. A comparison was made with the common nautical chart and hydrographic survey. 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-12537

Field activity prior to compilation included a field inspection of the shoreline and the recovery/photoidentification of horizontal control necessary for project aerotriangulation. Results of the 1964 field inspection were submitted on the 1:30,000 scale contact photographs.

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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.

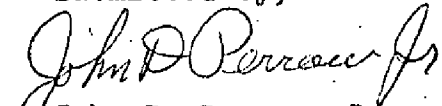
24. Supplemental Data

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

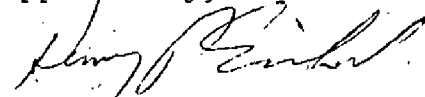
25. Photography

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

STRIP 01

63-5-7797 thru 7802

STRIP 02

63-5-7803 thru 7815

STRIP 03

STRIP 04

STRIP 05

STRIP 06

1. KEPUNI 2, 1948
2. KEPUNI, 1913
3. KEALAHUEWA 2, 1948
4. LORAN TOWER, 1948
5. PUU ULA, 1913

51° 55' 15"

155° 52' 30"

54° 24' 51"

20° 10' 45"

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEODETTIC DATUM		ORIGINATING ACTIVITY	
T-12537		PH-6410		Old Hawaiian Datum		Coastal Mapping Div, AMC	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS
			STATE	ZONE	ϕ LATITUDE	λ LONGITUDE	
none			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			
			X=	ϕ			
			Y=	λ			
COMPUTED BY		DATE	COMPUTATION CHECKED BY				DATE
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.

COMPILATION REPORT
T-12537

31 - DELINEATION

Delineation was by instrument methods using the Wild B-8 stereoplotter and 1:15,000 scale color photographs. The 1:30,000 scale panchromatic field inspection photographs were used during compilation; however, several of the field identified rocks were not discernible when viewing the 1:15,000 scale color compilation photographs. Rocks that were not clearly identifiable were not compiled.

Compilation ratio photographs were processed for hydro support and were used graphically to assist in delineation of minor details. Photo coverage and quality were adequate.

32 - CONTROL

Refer to the Photogrammetric Plot Report, dated February 4, 1969.

33 - SUPPLEMENTAL DATA

None.

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 mapping photographs and from the annotated photographs resulting from the precompilation field inspection. Because of the small tide range, no mean lower low water line was compiled.

36 - OFFSHORE DETAILS

There were no significant offshore details.

37 - LANDMARKS AND AIDS

There were no landmarks or navigational 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-12537

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated February 4, 1969.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S Quadrangles, Kiholo, Hawaii, dated 1959, scale 1:24,000; and Makalawena, 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 Jan. 24, 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by

Gerry L. Hancock

for

Charles Blood
Cartographic Technician
August 1969

Approved

Gerry L. Hancock

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

ADDENDUM TO THE COMPILATION REPORT

T-12537

Field edit was performed in conjunction with hydrographic survey H-9132 in February 1970. Adequate information was furnished in order to advance the manuscript to Class I status.

The field editor indicated new construction development at Mahewalu Point and he included a copy of the electrical plot plan for "Kona Village Resort", Kaupulehu, Hawaii, dated June 27, 1968. However, the buildings do not appear on our 1963 photography and the field editor gave no geographic position or location information; therefore it is impossible to locate any of this new construction on the manuscript.

The field editor indicated by note on the field edit ovalid a large tank, near Lat. 19° 49' 30" and Long 155° 59' 00". As he states, the tank does not appear on our existing 1963 photography, and since he failed to give us any locational information, it is impossible to plot the tank on the manuscript. A check of U.S.G.S. Quad Kiholo, Hawaii, scale 1:24,000, dated 1959 and C&GS Chart 4140, scale 1:80,000, 3rd edition, January 24, 1966, did not provide any information concerning the tank.

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6401 (Hawaii, West Coast I. of Hawaii)

T-12537

Kahuwai Bay

Kakapa Bay

Kaupulehu

Kikaua Point

Kua Bay

Kukio

Kukio Bay

Kumukehu Point

~~Mahewaiu~~ Point - Mahewalu Point *qz/h*~~Mane~~ Point ----- Mano Point *qz/h*

Pacific Ocean

Papiha Point

Waiakuhi

Approved by:

A. J. Wright
A. Joseph Wright
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

FIELD EDIT REPORT

CHART TOPOGRAPHY

West Coast Of Hawaii, Hawaii

Map Manuscripts, T-12534, T-12535,

T-12536, T-12537 & T-12538

February 1970

FIELD EDIT REPORT - OPR 419

Chart Topography
Hawaii, West Coast
Map Manuscripts, T-12534 T-12535, T-12536,
T-12537, T-12538

This report covers the west shore of the island of Hawaii from Kaunaoa Point south to Kau Bay.

The entire shoreline was inspected using a small boat and/or walking. The field edit copies (discrepancy prints) of the map manuscripts were used as the index for the field corrections and the photographs containing the bulk of the corrections were cross-referenced to the field edit copies.

Adequacy of Compilation:

The extent and accuracy of the maps appear to be complete.

Methods:

The shoreline was inspected and the correction have been indicated on the field edit photography in red ink. Annotations on the field edit sheet were done with a purple pencil and in some cases with a ball point pen. Deletions of features on both the field edit sheets and the photography are in green ink.

Mean high water references were made to identifiable alongshore

objects. In general the mean high water compilation was very good. The characteristics of the shore are generally a lava composition with a few sand beaches. The foreshore and adjacent offshore underwater areas are quite shallow. Coral heads are forming in areas that have a water depth of three feet or more.

There are no communities of any size. There are several residents along the shore south of Ohai Point to an area about 1/2 mile south of Kapuniau Point.

Rocks and shoals were investigated. The elevations of these features in relationship to the stage of tide at the time of the investigation were recorded on the field edit photography and/or the field edit sheets where required.

A Geographic Names investigation was not made, however one discrepancy was brought to the attention of the Field Editor by a local resident of over 50 years. The spelling of the small bay about 1/4 mile north of Ohai Point is spelled Wailea Bay and not Waialea Bay.

Pertinent information pertaining to each individual discrepancy sheet will be listed under that specific sheet.

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Sheet T-12534

Considerable time was spent looking for the submerged rocks from office interpretation but those west of the foul line were not found. Methods included fixes from identifiable objects from shore and investigation from a small boat.

Several areas have been mapped as coral however no coral was found close to the shoreline. Coral heads and coral are found in areas that are constantly under water.

Sheet T-12535

The first half of this sheet was done by personnel of the ship MCARTHUR in 1969.

A new boat ramp was constructed since the photography. A sketch was drawn on the back of photo 63 S 7779. Three tanks that are close together were picked as a landmark, See photo 63 S 7780. A form 567 will be submitted.

Sheet T-12536

See the comments on the Field Edit Ozalid.

Sheet T-12537

See the comments on the Field Edit Ozalid.
A new development has been constructed on Mahewalu Point. Several of the buildings will be of landmark value. The plans are being submitted with this report.

Sheet T-12538

See the comments on the Field Edit Ozalid.

Respectfully submitted,

Lyle L. Riggers

Lyle L. Riggers
Surveying Tech.

Approved:

F. A. Taylor, CAPT, USESAA
Comd. Officer "PATHFINDER"

Supplement To
FIELD EDIT REPORT
CHART TOPOGRAPHY

March 25, 1970

West Coast of Hawaii, Hawaii
Map Manuscripts, T-12534, T-12535
T-12536, T-12537, and T-12533

Three additional Geographic Names discrepancies have been located on the following T-sheets.

T-12534 The discrepancy on this sheet concerns Makaiwa Bay located at Lat. 19°57' and Long. 155°53.5' just west of LAHUIPUAA. On C&GS chart 4140 Jan. 24, 1966 the location of the name appears to refer to a different part of the coastline than on this T-sheet.

T-12536 A bay located at Lat. 19°55.8' Long. 155°53.5' has a spelling discrepancy. This T-sheet gives the spelling as Waiulua Bay and chart 4140 gives the spelling as Waialua Bay.

T-12537 In the general area of Kakapa Bay at Lat. 19°49' Long. 156°00.3' there exists a major discrepancy in the names of two prominent points of land. This T-sheet shows the point which forms the north shore of Kakapa Bay as Kikaua Pt. and the point forming the south shore as Papiha Pt. The chart 4140 gives the name of Papiha Pt. to the northern point and does not name the point to the south.

A Geographic Names investigation was not made on any of these discrepancies due to the lack of time at the end of the project when these discrepancies were found.

Respectfully submitted,

Approved:

Richard D. Olson

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ENS, USESSA
Photogrammetric Officer

E. A. Taylor, CAPT, USESSA
Comd. Officer "PATHFINDER"

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REVIEW REPORT
T-12537

SHORELINE

61 - GENERAL STATEMENT

Final review for this final field edited map was accomplished at the Atlantic Marine Center in December 1986. 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 quadrangles Kiholo, Hawaii, dated 1959, scale 1:24,000; and Makalawena, Hawaii, dated 1959, scale 1:24,000.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A portion of hydrographic survey H-9132, PF-10-3-70, 1:10,000 scale, field surveyed 1970 is common to this final shoreline map. A comparison made with a registered copy of H-9132 did not reveal any significant discrepancies.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS chart 19327, scale 1:80,000, 8th edition, 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
Jerry L. Hancock
Final Reviewer

Approved for forwarding

Billy H. Barnes
Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved

Jerry O. Robson *A. Y. Bryson*
Chief, Photogrammetric Production Sec. Chief, Photogrammetry Branch

