

T-12529

T-12529

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. T-12529	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 HOLANA BAY	
19 63 TO 19 68	
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, Virginia		SURVEY <u>TR-12529</u> MAP EDITION NO. (1) MAP CLASS Final JOB PH. <u>6401</u>	
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 1:10,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	
DATE			
1. AEROTRIANGULATION METHOD: Stereoplanigraph		BY P. Hawkins LANDMARKS AND AIDS BY J. Perrow	
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat		PLOTTED BY P. Hawkins CHECKED BY J. Perrow	
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:10,000		PLANIMETRY BY F. Margiotta CHECKED BY C. Bishop CONTOURS BY N.A. CHECKED BY N.A.	
4. MANUSCRIPT DELINEATION METHOD: Smooth drafted SCALE: 1:10,000		PLANIMETRY BY F. Margiotta CHECKED BY C. Bishop CONTOURS BY N.A. CHECKED BY N.A. HYDRO SUPPORT DATA BY F. Margiotta CHECKED BY C. Bishop	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT		BY C. Bishop	
6. APPLICATION OF FIELD EDIT DATA		BY A. Shands CHECKED BY R. Smith	
7. COMPILATION SECTION REVIEW		BY R. Smith	
8. FINAL REVIEW		BY J. Hancock	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		BY J. Hancock	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		BY P. Dempsey	
11. MAP REGISTERED - COASTAL SURVEY SECTION		BY E. DAUGHERTY	

NOAA FORM 76-36B (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY			
T-12529					
COMPILATION SOURCES					
1. COMPILATION PHOTOGRAPHY					
CAMERA(S) Wild R.C.-8"S", , S=152.29 mm		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE ZONE Yukon MERIDIAN 135th	
TIDE STAGE REFERENCE ☒ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY				☒ STANDARD ☐ DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
63S(P) 7799-7801 *	Aug.27,1963	10:52	1:30,000	1.8 ft. above MLLW	
63S(C) 7756-7757 **	Aug.27,1963	09:51	1:20,000	1.8 ft. above MLLW	
63S(C) 7759-7761 **	Aug.27,1963	09:57	1:20,000	1.8 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 waterline 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-9019	Surveyed 1968	Registered			
5. FINAL JUNCTIONS					
NORTH	EAST	SOUTH	WEST		
T-12527	No Survey	T-12530	No Survey		
REMARKS					

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Newsom	May 1964
2. HORIZONTAL CONTROL	RECOVERED BY E. Cline ESTABLISHED BY E. Cline PRE-MARKED OR IDENTIFIED BY E. Cline	May 1964 May 1964 May 1964
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 E. Cline LOCATED (Field Methods) BY None IDENTIFIED BY E. Cline	May 1964 May 1964
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY BY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY E. Cline	May 1964
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

*Section of ratio photo submitted

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
63(S)7802*	Cast, 1910 (Direct & Sub. pt.)		
63(S)7799*	**PUU ULA, 1913 (Direct & Sub pt.)		
63(S)7802*	RED TANK, 1948 (Direct)		
63(S)7802*	MAHUKONA NORTH DAYBEACON, 1910 (Direct)		
	**Station is east of map limits		

3. PHOTO NUMBERS (Clarification of details)

63(S)7799 thru 7802 (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)

2 Forms 152 (CSI)

T-12529
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	(USC&GS, Ship McARTHUR) R. Newsom	Oct 1968
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 ☐ COMPLETE ☐ SPECIFIC NAMES ONLY BY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R. Newsom	Oct 1968
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)

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)

1 - Field Edit Report

1 - Field Edit Paper Print

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.	Nov. 1968	Class III Manuscript (Includes field inspection)	Nov. 1968	Nov. 1968 Dec. 1969
Field edit applied, compilation complete.	Jan. 1970	Class I Manuscript		Dec. 1972 Nov. 1973
Final Review	Oct. 1986	Final Map	mar 1987	mar 1987

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

Form 567 (NUMBER pages)	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		Jan. 1970	Mahukona Harbor North Daybeacon

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: Jan. 21, 19703. ☐ 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	

Area
Sq. Mi.

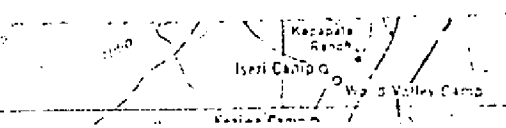
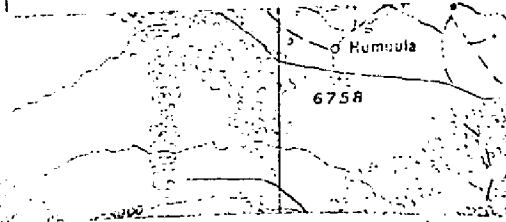
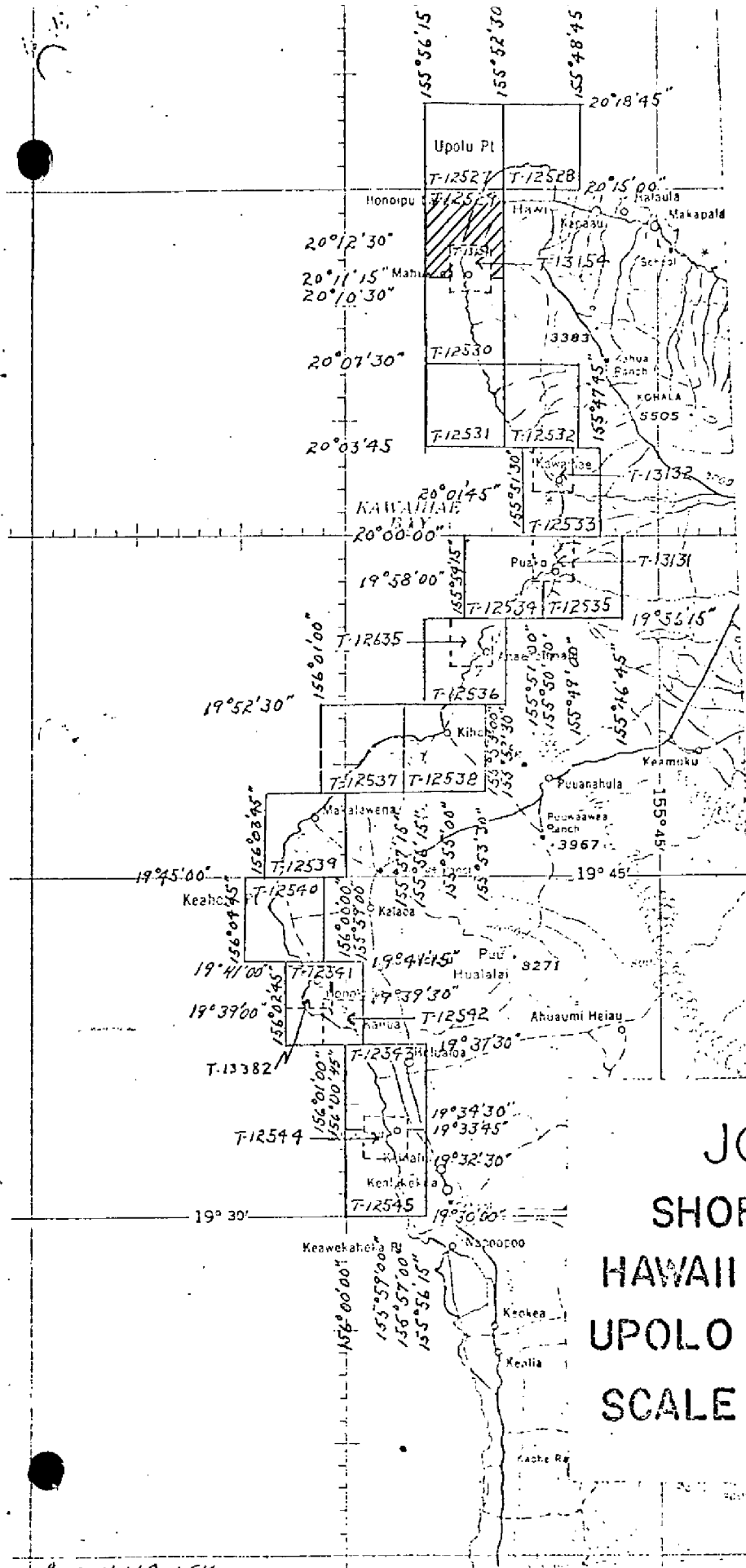
Sheet No. _____

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	<u>1</u>

Total 61

6.

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



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12529

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. 20° 11' 15" to Lat. 20° 15.0'.

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 November 1968. 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-12529

Field edit for this map was conducted in conjunction with hydrographic survey H-9019 by USC&GS Ship McARTHUR personnel in December 1968.

Application of field edit data was accomplished at the Atlantic Marine Center in January 1970 and the manuscript was advanced to Class I. A copy of the Class I manuscript was forwarded to the Hydrographic Surveys Branch.

Final review was performed at the Atlantic Marine Center in October 1986. A comparison was made with the common nautical chart(s) and hydrographic survey(s). 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-12529

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.

PHOTOGRAMMETRIC BRIDGE REPORT
Hawaii Island, Hawaii
Job PH-6401

June, 1966

21. Area Covered

This report covers only Strip #1 and Strip #2 which fall along the northwestern tip of Hawaii Island. T-sheets in this area are numbered 12527 through T-12533.

22. Method

Both strips were bridged on the stereoplanigraph and were adjusted by IBM 1620 methods. Strip #1 was adjusted on five control stations with four additional stations as checks. Strip #2 was adjusted on four control stations with two additional stations as checks. All tie points between strips were averaged.

23. Adequacy of Control

The control provided by the field was adequate but did not comply with project instructions in that many stations were identified directly with no substation. The following stations could not be held in the bridging adjustments.

1. KAWAIHAE LIGHT 1948. The field misidentified this station by some 1,500 feet. The description places this station to the southeast of where it was pricked.
2. KEPUHI 2, 1948, SS #1. The substation was misidentified during bridging operations; however, the home station held in the bridge.
- 3 & 4. MAHUKONA HARBOR SOUTH DAY BEACON 1910 and MAHUKONA NORTH DAY BEACON 1910. These two stations were identified directly. No Form 152's were provided by the field. The identification seems to fit the descriptions; however, the two stations could not be held in either bridge by same amounts (30' to 35'). In view of the bridging results, using the other control stations, and the good junction between strips, the two stations were disregarded. It is recommended that a field check of these stations be made during hydro operations.

24. Supplemental Data

Local Geological Survey Quads of the area were used to establish rough elevations for bridging.

25. Photography

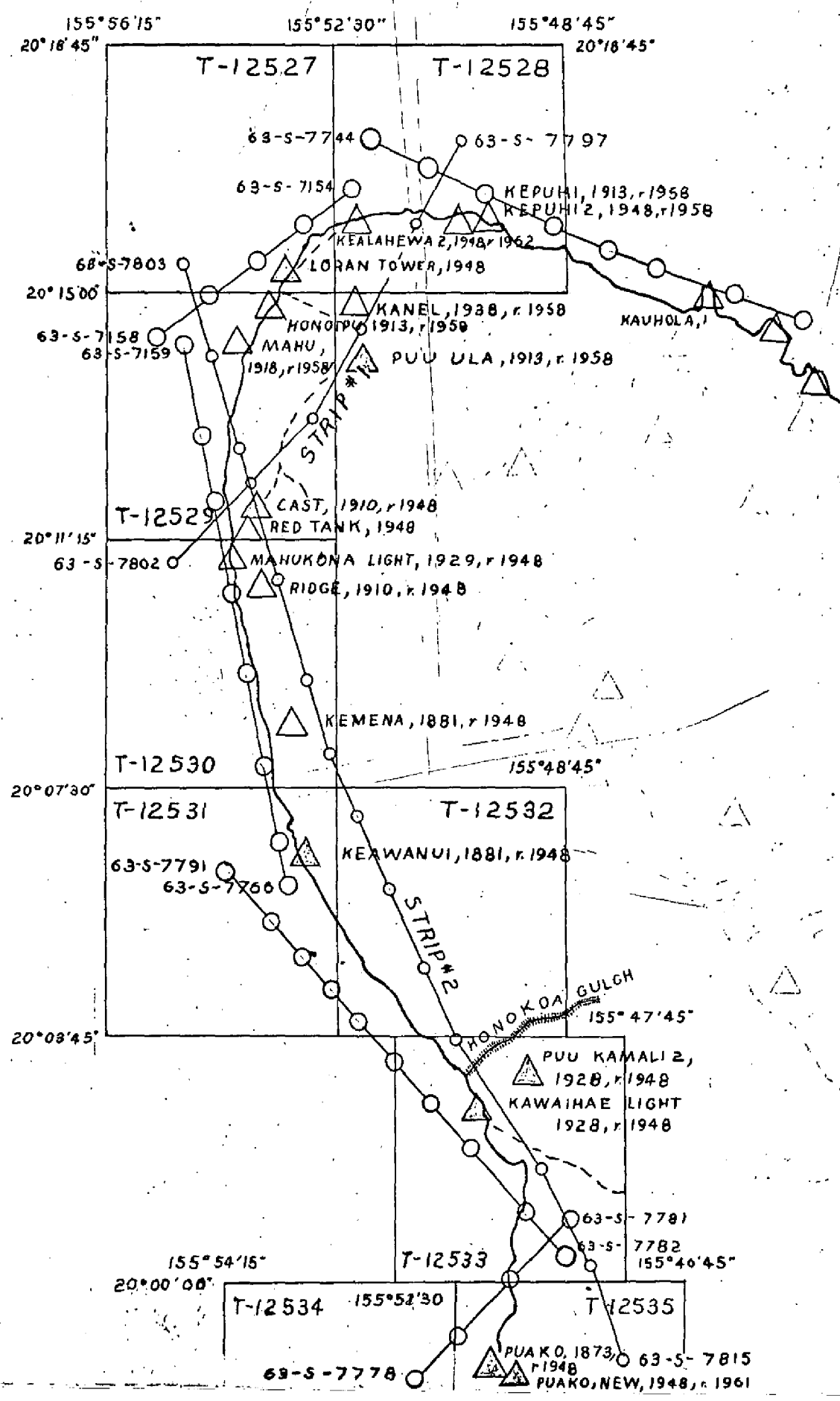
Photography was adequate as to coverage, overlap, definition and quality of diapositives.

Submitted by:

Paul Hawkins
Paul Hawkins

Approved by:

John D. Perrow, Jr.
John D. Perrow, Jr.



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	GEODETTIC DATUM		GEOGRAPHIC POSITION		REMARKS
					Old Hawaiian Datum COORDINATES IN FEET STATE <u>Hawaii</u> ZONE <u>1</u>	Unit, AMC, Norfolk, VA	ϕ LATITUDE λ LONGITUDE		
T-12529	PH-6401	CAST (J.B.M.#1931) 1910	G.P. Pg.26		X=		ϕ 20 11 41.498	-	
					Y=		λ 155 53 51.563	-	
RED TANK, 1948			G.P. Pg.38		X=		ϕ 20 11 23.59	-	
					Y=		λ 155 54 02.21	-	
MAHU, 1913			G.P. Pg.76		X=		ϕ 20 14 00.159	-	
					Y=		λ 155 54 06.500	-	
MAHUKONA HARBOR NORTH DAY BEACON, 1910			G.P. Pg.109		X=		ϕ 20 11 24.60	-	
					Y=		λ 155 54 20.29	-	
					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	A. C. Rauck, Jr.				DATE	8/29/68	COMPUTATION CHECKED BY C. Blood		DATE 8/30/68
LISTED BY					DATE		LISTING CHECKED BY		DATE
HAND PLOTTING BY					DATE		HAND PLOTTING CHECKED BY		DATE

COMPILATION REPORT
T-12529

31 - DELINEATION

Delineation was by instrument methods using the Wild B-8 stereoplotter and 1:20,000 scale color photographs. The 1:30,000 scale panchromatic field inspection photographs were used during compilation; however, many of the field identified rocks were not discernible when viewing the 1:20,000 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 June 1966.

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

One navigational aid was verified photogrammetrically.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

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

T-12529

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated June 1966.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S Quadrangle, Mahukona, Hawaii, dated 1957, 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

Geny L. Hancock
for F. P. Margiotta
Cartographic Aid
October 1968

Approved

Geny L. Hancock
for Albert C. Rauck, Jr.
Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

T-12529

Field edit was adequately performed concurrent with hydrographic survey H-9019. Application of the data was sufficient to advance the manuscript to Class I status.

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

T-12529

Haena

Haena Point

Hianaula Bay-----Not compiled *JSK*

Hianaula Point

Holana Bay

Honoipu

Kapaa Park-----Not compiled *JSK*

Kauili Point

Makaohule Point

Mahukona

Pacific Ocean

Puakea Point

Approved by:

*A. J. Wright*A. Joseph Wright
Chief Geographer

Prepared by:

*Frank W. Pickett*Frank W. Pickett
Cartographic Technician

Field Edit Report
to Accompany T12529

USC&GSS McARTHUR

Ronald L. Newsom
CDR, USESSA
Commanding Officer

51 METHODS

Manuscript T-12529 was field edited by personnel aboard the USC&GSS McARTHUR in conjunction with the hydrography on boatsheet AR 10-8-68 (H9019). Shoreline inspection and all other acquisition of field edit material was accomplished from Launch AR-1. The delineation of the MLLW line was rendered impossible by the jagged shoreline and heavy surf. The steep bottom contour and the small range of tides indicated that the MLLW line should roughly coincide with the MHWL. Additions and corrections to the manuscript have been noted on the field edit ozalid provided for T 12529 in blue pencil and cross referenced in purple ink on C&GS photo 27 AUG 63S7801. No deletions on the field edit ozalid were necessary.

52 ADEQUACY OF COMPILATION

Manuscript T 12529 is complete and adequate for use in conjunction with this hydrographic survey. The area of this manuscript from the shoreline seaward was field edited.

54 RECOMMENDATIONS

None

56 MISCELLANEOUS

There were two flights of photos taken over this shoreline area. One flight's photos were supplied only as cronapaque prints while the other flight provided matte ratio prints (paper). Because the field edit indexing must be done on the paper rather than cronapaque ratio prints (visaversa for photo signal location), different photos were used for field edit and photo-signal location.

REVIEW REPORT
T-12529

SHORELINE

61 - GENERAL STATEMENT

Final review for this final field edited map was accomplished at the Atlantic Marine Center in October 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 quadrangle Mahukona, Hawaii, dated 1957, scale 1:24,000.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a portion of hydrographic survey H-9019, AR-10-8-68, 1:10,000 scale, field surveyed 1968. Field edit for the map was performed in conjunction with this hydrographic survey. The comparison did not reveal any significant discrepancies; however, it was noted that several alongshore foul limits delineated on the map were not transferred to the hydrographic survey. It appears that alongshore sounding development took precedence over the foul limits.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS charts:
19327, scale 1:80,000, 8th edition, Sept. 5, 1981
19329, scale 1:5,000, 6th edition, Feb. 24, 1979.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

T-12529

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. Rohan *A. J. Bryan*
Chief, Photogrammetric Production Sec. Chief, Photogrammetry Branch

~~NONFLOATING AIDS OR LANDMARKS FOR CHARTS~~

TO BE CHARTERED
TO BE RENEWED
TO BE DELETED

STRIKE OUT TWO

Atlantic Marine Center
January 5 1970

I recommend that the following objects which have (~~been~~) been inspected from seaward to determine their value as landmarks be ~~deleted from~~ (~~deleted from~~) the charts indicated.

The positions given have been checked after listing by

A. L. Shands
A. L. Shands

T-12529

Allen L. Powell, Director, AMC Chief of Party

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

