### NOAA FORM 76-35 (6-80)

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

# DESCRIPTIVE REPORT

Map No.		Edition No.
	T-12527	1
Job No.		
	PH-6401	
Map Class	ification	
	FINAL, FIELD EDITED MA	/IP
Type of Su		
	SHORELINE	
	LOCALITY	<b>'</b>
State	- <u></u>	
	HAWAII	
General L	oc <i>ality</i> HAWAII ISLAND,	WEST COAST
	UPOLO POINT TO KAILUA	
Locality		
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	19 <sup>63</sup> TO 19	68
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	REGISTERED IN A	KUNIYE3
DATE		

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE		10505
NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TH. 12527
	☑ ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final
	REVISED	јов <b>Рн.</b> <u>6401</u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEEDI	NG MAP EDITION
Coastal Mapping Unit, Atlantic Marine Center	TYPE OF SURVEY	JOB PH-
Norfolk, Virginia	ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	☐ RESURVEY	SURVEY DATES:
	☐ REVISED	19TO 19
Richard Houlder	<u>'</u>	
I. INSTRUCTIONS DATED		
1, OFFICE	2.	FIELD
Compilation September 12, 1968	Control/Field Inspe	ection April.29,1964
Supplement No. 1 February 11, 1969		
Compilation March 11, 1969		
Supplement No. 2 December 11, 1969		
II. DATUMS		
I. HORIZONTAL: 1927 NORTH AMERICAN	OTHER (Specify)	~
- OUNTED 1927 NORTH-AMERICAN	Old Hawaiian Datu	um
XX MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:		
MEAN LOWER LOW-WATER  MEAN SEA LEVEL		
3. MAP PROJECTION		- Minusch
	STATE 4. G	RID(S)
Polyconic	Hawaii	1
5. SCALE	STATE	ZONE
1:10,000		
III. HISTORY OF OFFICE OPERATIONS	· · · -	
OPERATIONS	NAME	DATE
	P. Hawkins	Jun 1966
METHOD: Stereoplanigraph LANDMARKS AND AIDS BY	J. Perrow	Jun 1966
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY	P. Hawkins	Jun 1966
	J. Perrów	Jun -1968
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	F. Margiotta	Sept 1968
COMPILATION CHECKED BY INSTRUMENT: Wild R.R. CONTOURS BY	C. Bishop	Sept 1968
WIIG B	N.A.	
SCALE: 1:10,000 CHECKED BY  4. MANUSCRIPT DELINEATION PLANIMETRY BY	F. Margiotta	Sept 1968
CHECKED BY	C. Bishop	Oct 1968
CONTOURS BY	N.A.	300 100
METHOD: Smooth draftedchecked by	N.A.	
HYDRO SUPPORT DATA BY	A. Shands	Sept 1968
SCALE: 1:10,000 CHECKED BY	C. Bishop	Oct 1968
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	C. Bishop	Oct 1968
6. APPLICATION OF FIELD EDIT DATA	A. Shands	Aug 1969
CHECKED BY	R. Smith	Dec 1969
7. COMPILATION SECTION REVIEW BY	R. Smith	Dec 1969
8. FINAL REVIEW BY	J. Hancock	Oct 1986
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY  10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	J. Hancock	Mar 1987
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY  13. MAP REGISTERED - COASTAL SURVEY SECTION BY	P. Dempsey	TY MAY 1987
NOAA FORM 76-36A SUPERSEDES FORM C& GS 181 SERIES	EL DADGHER	



NOAA FORM 76-36B (3-72)		СОМ	TP-	12527	•	ANIC AND ATMOSF	HERIC A	OF COMMERC DMINISTRATIO OCEAN SURVE
1. COMPILATION PHO	TOGRAPHY	<u></u> -				<del></del>		<u>-</u>
CAMERA(S)			TYPE	S OF PH	OTOGRAPHY			
Wild RC-8"S",	S=152.29 mm			LEGE	END.	I IM	E REFER	ENCE
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X PREDICTED TIDES		ĺ		NCHROM	ATIC	Yukon		XXSTANDAR
REFERENCE STAT			(I) INF	RARED		MERIDIAN		[]DAYLIGH
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63s (C) 7754-775 63s (P) 7798-779		g.27,1963 g.27,1963	09:5 10:5	_	1:20,000 1:30,000	,		
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	hịġh…water l on photograp		_			_	n of tl	he
3. SOURCE OF MEXIC	**************************************	EAN LOWER LO	W-WATER	LINE:				
No mean l	ower low wat	er linë wa	as comp	iled.				
4. CONTEMPORARY I	HYDROGRAPHIC SU	RVEYS (List of	nly those st	irveys thi	al are sources (	or photogrammetric	survey inf	ormation.)
SURVEY NUMBER	Surveyed	survey cop		surve	Y NUMBER	DATE(S) Surveyed 1981		COPY USED

н-9019	1968	Registered	н-9975	1981	Registered
S. FINAL JUNCTIO	NS				
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No Survey		T-12528	T-125	529	No Survey
REMARKS					

NOAA FORM 76-36 (3-72)	c	T-12527 HISTORY OF FIELD			DEPARTMENT ( MOSPHERIC AD NATIONAL O	MINISTRATIO
I. XX FIELD INSP	ECTION OPE	RATION FIEL	D EDIT OPERATION			
	OF	PERATION	N.	AME		DATE
1. CHIEF OF FIEL	DARTY					
1. CRIEF OF FIEL			R. Newsom			ay 1964
		RECOVERED BY	E. Cline			ay 1964
2. HORIZONTAL	CONTROL	ESTABLISHED BY	E. Cline E. Cline			ay 1964 ay 1964
		PRE-MARKED OR IDENTIFIED BY	None	<del></del> -		ay 1904
3. VERTICAL CO	NTROL	ESTABLISHED BY	None			
3. VERTICAL CO.	······································	PRE-MARKED OR IDENTIFIED BY	None			
<del></del>	·		None			
4. LANDMARKS A		RECOVERED (Triangulation Stations) BY	E. Cline		<del>-   -</del>	ulv 1964
	AIDS TO NAVIGATION		None			dry 1504
		TYPE OF INVESTIGATION	1.0.10		<del>-</del>	
5. GEOGRAPHIC I	NAMES	COMPLETE				
INVESTIGATION		SPECIFIC NAMES ONLY			ļ	
		XX NO INVESTIGATION	ii		1	
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	E. Cline			ay 1964
7. BOUNDARIES A		SURVEYED OR IDENTIFIED BY	None			uy 1504
II. SOURCE DATA		7	110110		<del> </del>	
1. HORIZONTAL		ENTIFIED	2. VERTICAL CON	FROL IDEN	ITIFIED	
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3. PHOTO NUMBE	RS (Clarifica)	tion of details)	.l			
	•	•				
	63 (S) 779	9 (Matte Contact).				
4. LANDMARKS A	ND AIDS TO	NAVIGATION IDENTIFIED			<u></u>	
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5. GEOGRAPHIC		REPORT XX NONE	6. BOUNDARY AND	LIMITS:	REPORT	XX NONE
		ketch books, etc. DO NOT list data submi	tted to the Geodesy Div	vision)		
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OAA FÖRM 76~36C 3-72)	;	T-12527	NATIONAL OCEA	U. S. TA DNA DIN.		OF COMMER DMINISTRATI OCEAN SURV
		HISTORY OF FIELD	OPERATIONS			
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. CHIEF OF FIELI	O DARTY		(USC&GS Shi	p McARTH	UR)	
			R. Newsom, (			Oct 1968
	==	RECOVERED BY	R. Newsom. (	CDR		Oct 1968
. HORIZONTAL CO	ONTROL	ESTABLISHED BY	None			
		PRE-MARKED OR IDENTIFIED BY	None			
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. VERTICAL CON	TROL	ESTABLISHED BY	None			<del></del>
		PRE-MARKED OR IDENTIFIED BY	None		<del></del>	
		RECOVERED (Triangulation Stations) BY	R. Newsom, (	CDR		0c <u>t::1968</u>
LANDMARKS AN AIDS TO NAVIGA		LOCATED (Field Methods) BY	None			
		TYPE OF INVESTIGATION	None			
i. GEOGRAPHIC NA INVESTIGATION		COMPLETE BY				
111 * Eq. ( 10	,	SPECIFIC NAMES ONLY	}			
		XX NO INVESTIGATION	<del> </del>		<del></del>	
. PHOTO INSPECT		CLARIFICATION OF DETAILS BY	None			
, BOUNDARIES AN	ND LIMITS	SURVEYED OR IDENTIFIED BY	None			
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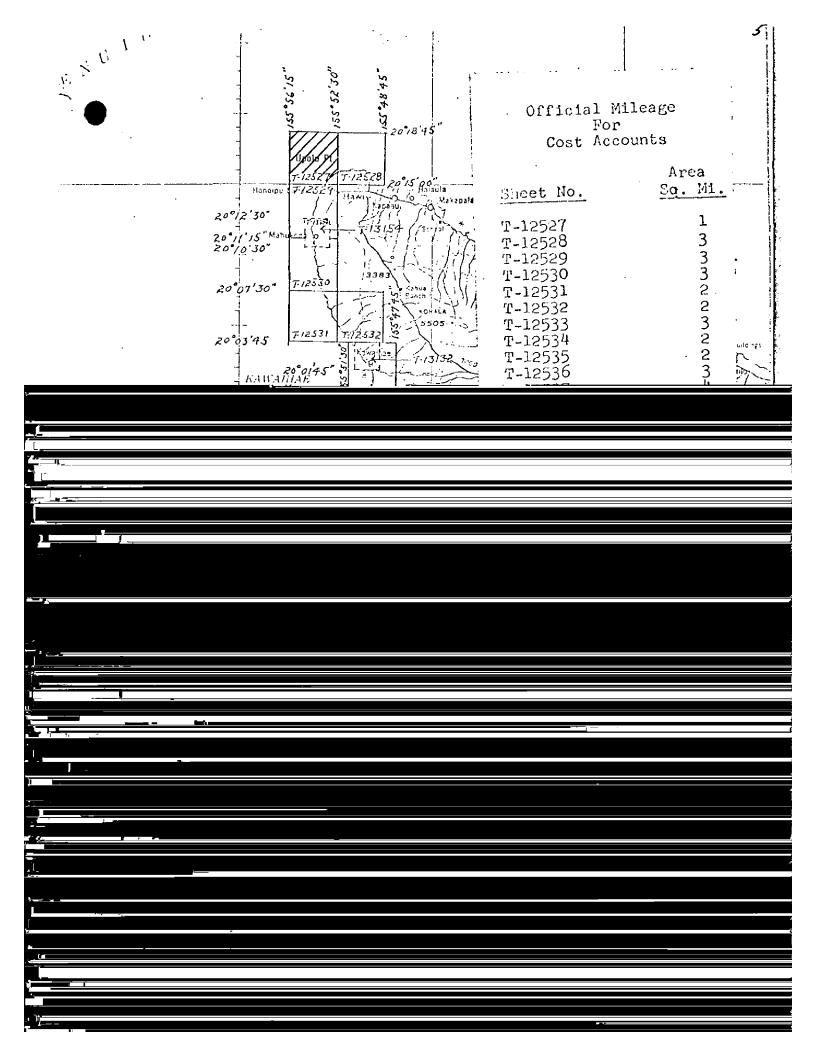
	RM 76-36D		NATIONAL OCEANIC	U. S. DEPARTMENT	
(3-72)			T-12527 WATTOWN COLUMN RD OF SURVEY USE	A MOST MERIC	KDM14131 KATIO
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L	DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPOR
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	g field edit.	Oct. 1968	Inspection)	Oct 1968	Dec. 1969
Field	edit applied				
	ation complete.	Dec 1969	Class I Manuscript		Nov. 1973
Final	Review	Oct 1986	Final Map	mar 1987	mar 1987
		]		ļ	ļ
II. LANDI	MARKS AND AIDS TO NAVIG	TION	<u> </u>		'- <del></del>
1. REF	PORTS TO MARINE CHART D	IVISION, NAUTICAL	DATA BRANCH		<del></del>
(pages)	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	RE	EMARKS	
2		Jan 1970	2 C&GS Forms 567		
		<del> </del>			
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	REPORT TO MARINE CHAR	T DIVISION, COAST	PILOT BRANCH. DATE FORWARDS	<sub>D:</sub> Jan 21, 19	70
<b>2.</b> ₹ <u>x</u>	REPORT TO AERONAUTICA		, AERONAUTICAL DATA SECTION.	DATE FORWARDED:	
3.	DAL DECODOS CENTER NA				
3.	RAL RECORDS CENTER DA	10			
3. []  III. FEDE   . [252]	BRIDGING PHOTOGRAPHS;	ÆX DUPLICATE	BRIDGING REPORT; SX COMPUT	TER READOUTS.	
3. []  III. FEDE  1. [X2]  2. [XX]	BRIDGING PHOTOGRAPHS;	松 DUPLICATE IFICATION CARDS;	BRIDGING REPORT; XX COMPUT TORM NOS 567 SUBMITTED Port) AS LISTED IN SECTION 11, NOA	BY FIELD PARTIES.	

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SECOND	TP(2)	PH	1	REVISED	RES	URVEY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT		MAP	CLASS	
			□n.	□(ii. □ iv	. 🔲 v.	FINAL
	SURVEY NUMBER	JOB NUMBER		TYPE O	FSURVEY	
THIRD	TP(3)	PH	[	REVISED	RES	URVEY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	7	MAP	CLASS	
			□n.	Om. Or	□v.	FINAL
	SURVEY NUMBER	JOB NUMBER		TYPE O	SURVEY	
FOURTH	TP(4)	PH		REVISED	RES	ÜRVĖY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT		MAP	CLASS	

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FINAL



# SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

### T-12527

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° 15.0' to Lat. 20° 16.0'.

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 October 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-12527

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

Application of field edit data was accomplished at the Atlantic Marine Center in December 1969 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-12527

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.

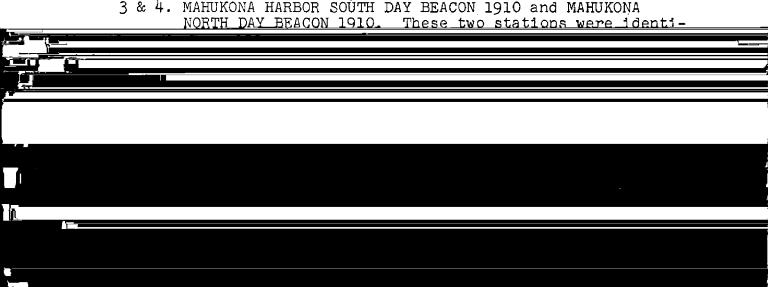
### 22. Method

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.

### Adequacy of Control 23.

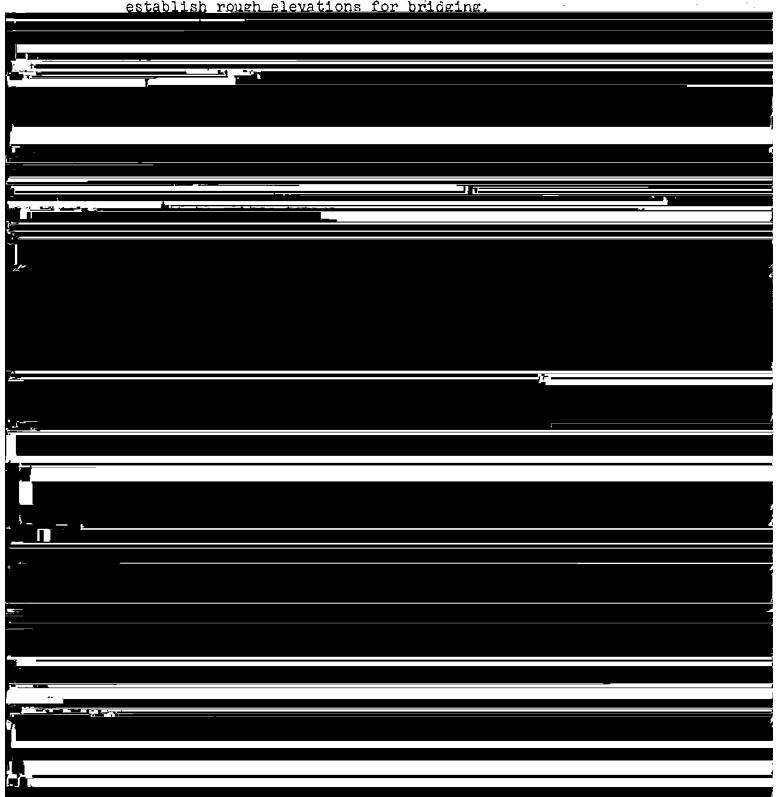
The control provided by the field was adequate but did not comply with project instructions in that many stations were identified directly with no substation. The following stations could not be held in the bridging adjustments.

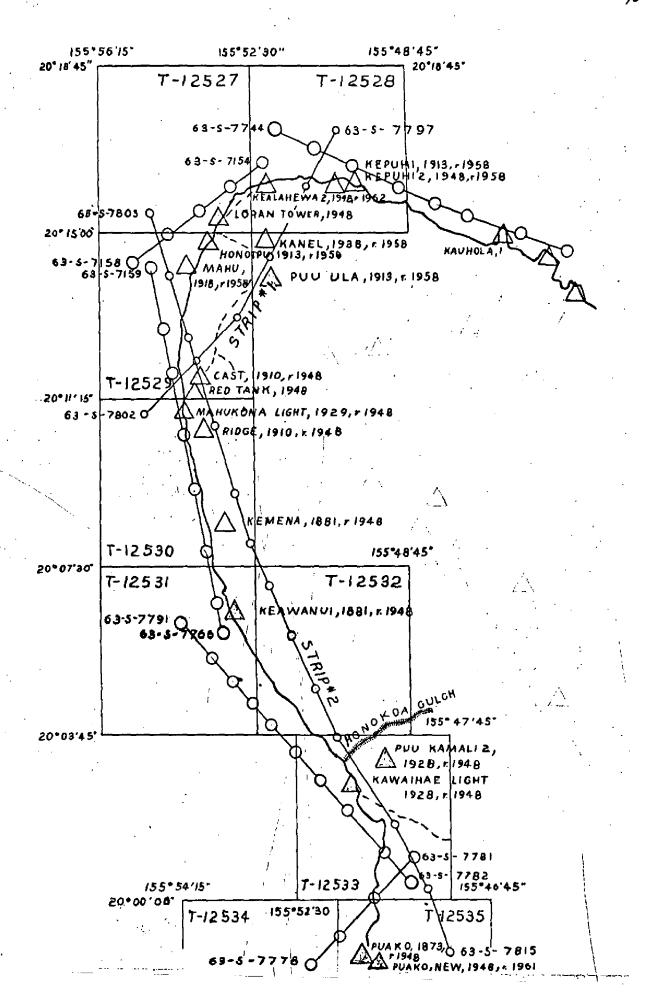
- 1. KAWAIHAE LIGHT 1948. The field misidentified this station by some 1,500 feet. The description places this station to the southeast of where it was pricked.
- 2. KEPUHI 2, 1948, SS #1. The substation was misidentified during bridging operations; however, the home station held in the bridge.
- 3 & 4. MAHUKONA HARBOR SOUTH DAY BEACON 1910 and MAHUKONA



### 24. Supplemental Data

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





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heri <sup>r</sup>					
			11111 - 11111		

### COMPILATION REPORT T-12527

### 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. Photocoverage 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

Two landmarks were determined during the field inspection activity.

### 38 - CONTROL FOR FUTURE SURVEYS

None.

### 39 - JUNCTIONS

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

### T-12527

### 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

or F. P. Margiotta Cartographic Aid

September 1968

Approved

for Albert C. Rauck, Jr.

Jeny 2. Horeach

Chief, Coastal Mapping Section

### ADDENDUM TO THE COMPILATION REPORT

T-12527

Field edit was performed concurrent with hydrographic survey H-9019. The field editor indictated that surf conditions prohibited him from verifying most of the alongshore rocks and limit lines. The only field data submitted was a paper field edit print. Adequate information was furnished in order to advance the manuscript to Class I status.

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6401 (Hawaii, West Coast I. of Hawaii) T-12527

Alenuihaha Channel

Limukoko Point

Mookini Heiau

Pacific Ocean

Umiwai Bay

Approved by:

A. Joseph Wraight Chief Geographer Prepared by:

Frank W. Pickett Cartographic Technician

### REVIEW REPORT T-12527

### 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

~ <del>~</del>	the Atlantic Marine Center in October 1986. For a schedule of the
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T-12527

Submitted by

Geny L. Hancock Jerry L. Hancock Final Reviewer

Approved for forwarding

Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved

Chief, Photogrammetric Production Sec.

Chief, Photogrammetry Branch

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

NONFEGATING MIDSON LANDMARKS FOR CHARTS

STRIKE OUT TWO TO BE CHARTED **03137343414** 

Atlantic Marine Center

Dec.

19 69

10

I recommend that the following objects which have (mave now) been inspected from seaward to determine their value as landmarks be charted on (Acteted from) the charts indicated.

The positions given have been checked after listing by

Director, Powe11 Allen L.

CHARTS Chief of Party 4140 4140 4115 THAMS BROHEVE  $\overline{\times}$ MERIORE CHEM. NABIOR CHART Verify July 1964 1964 July riang. r12527 Triang. T12527 LOCATION AND BURVEY No. ; DATUM 019 Haw. 17.859 Old Haw 22.951 666.1 D. P. METEDIS 518.3 LONGITUDE 53 53 POSITION 155 155 • 15.045 462.6 01.276 D. M. METERS 39.2 LATTITUDE . 15 0 20 20 BIGNAL (Loran C Tower 1964) (Loran A Tower 1964) ht.= 285(330) ALENUIHAHA CHANNEL DESCRIPTION = 629 (724)7-12527 HAWAII ht. LORAN TOWER LORAN TOWER CHARTING STATE

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 nonttoating 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.

\* TABULATE SECONDS AND METERS

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# U.S. DEPARTMENT OF COMMERCE

MONITIONATING AIDS OF LANDMARKS FOR CHARTS

STRIKE OUT TWO

TO BE REVISED

TO DE CHARTES

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69 **61** 

Dec. 30

Atlantic Marine Center

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I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be alen I The positions given have been checked after listing by A.L. Shandi harted on (deleted from) the charts indicated. TO BE DELETED

Director,

Powell

Allen L.

7-12527

CHARTS 4115 4140 TRANS BROKETTO Verify DATE OF July 1964 Triang. T12527 METHOD OF LOCATION AND BURVEY NO. DATUM 23.499,01d 0 THaw D. P. METERS 682. LONGITUDE 53 POSITION 155 D.M. METERS 16.252. 499.8 LATITUDE # 5 • 20 BIGNAL DESCRIPTION ALENUIHAHA CHANNEL (Loran Tower 1948) **Destroyed** HAWAII LORAN TOWER CHARTING BTATE

landmarks and nonloating side to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be 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 considered for the chatts of the area and not by individual field survey sheets. Information under each column heading should be given. \* TABULATE SECONDS AND METERS

USCOMIND C SCHOOL PEG.

FORM C&GS-8352 (9-29-83)

### NAUTICAL CHART DIVISION

### RECORD OF APPLICATION TO CHARTS





### INSTRUCTIONS

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