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-12545	1			
Job No.				
РН-6401				
Map Classification				
Final Field Edited Map				
Type of Survey				
Shoreline				
LOCALITY	<b>1</b>			
State				
Hawaii				
General Locality				
Hawaii Island, West Coast, Upolo Point to Kailua				
Locality				
Keikiwaha 'Point				
10 TO 10				
19 63 TO 19 72				
REGISTERED IN A	RCHIVES			
DATE				

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY	т <i>∮</i> - <u>12545</u> _
	ORIGINAL	MAP EDITI	ON NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS	s Final
	REVISED	JOB	PH6401
PHOTOGRAMMETRIC OFFICE	LAST PRECEED		
Coastal Mapping Unit, Atlantic Marine			
Center, Norfolk, VA	TYPE OF SURVEY		Рн
OFFICER-IN-CHARGE	ORIGINAL		S
,	RESURVEY	SURVEY D	
Ríchard Houlder	REVISED	19TO 19	9
I. INSTRUCTIONS DATED			
1, OFFICE	2.	FIELD	
Compilation September 12, 1968	Control/Field In	spection	
Supplement No. 1 February 11, 1969	April 29, 1964		
	] -		
Compilation March 11, 1969	ļ		
Supplement No. 2 December 11, 1969	1		
]			
II. DATUMS	107.150 to 11.1		
1. HORIZONTAL: 1927 NORTH AMERICAN	OTHER (Specify)		
	Old Hawaiian Dat	um	
X MEAN HIGH-WATER	OTHER (Specify)		
2. VERTICAL:			
MEAN LOWER LOW-WATER	j		
MEAN SEA LEVEL	<del> </del>		
3. MAP PROJECTION		GRID(S)	<del> </del>
_ ,	STATE	ZONE	
Polyconic	Hawaii STATE	ZONE	
1:10,000	STATE	ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS	NAME		DATE
1. AEROTRIANGULATION BY	J. Perrow		Feb. 1969
METHOD: Stereoplanigraph LANDMARKS AND AIDS BY	H. Eichert		Feb. 1969
2. CONTROL AND BRIDGE POINTS PLOTTED BY	J. Perrow _		Feb. 1969
METHOD: Coradomat CHECKED BY	H. Eichert	· <del></del>	Feb. 1969
	A. Shands		Sept. 1969
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY CHECKED BY			Sept. 1969
INSTRUMENT: Wild B-8 CONTOURS BY	C. Bishop		Sept. 1909
SCALE: 1:10.000 CHECKED BY	N/A		<del> </del>
	N/A		7060
	A. Shands		Nov. 1969
CHECKED BY	R. Smith		Jan. 1970
METHOD: Smooth drafted CUTCKED BY	N/A		
CHECKED BY	N/A		N=== 1060
SCALE: 1:10,000	L. Graves		Nov. 1969
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	R. Smith	<del></del>	Jan. 1970
3. OFFICE INSPECTION PRIOR TO FIELD EDIT	R. Smith	<del></del>	Jan, 1970 Feb. 1973
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	R. White A. Shands		Feb. 1973 Apr. 1973
7. COMPILATION SECTION REVIEW BY	C. Blood		July 1980
8. FINAL REVIEW BY	J. Hancock		Feb. 1987
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Hancock		Mar. 1987
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY			
13. MAP REGISTERED - COASTAL SURVEY SECTION BY	F. Demosey	754	May 1977

SUPERSEDES FORM CAGS 181 SERIES

NOAA FORM 76-36A

NOAA FORM 76-36B (3-72)			m_1	2545	NATIONAL OCE		ATMOSPHERIC	NT OF COMMERCE C ADMINISTRATION AL OCEAN SURVEY
		co	MPILATIO		RCES			
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REFERENCE STA			l i	NCHRO		MERID	<u> </u>	
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63s(c)8037-80		Aug. 31, 19		0:30	1:15,000	I .	ft. above	
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3. SOURCE OF MEAN	LOW-WATER O	R MEAN LOWER L	OW-WATER	LINE:				
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4. CONTEMPORARY	HYDROGRAPHIC	SURVEYS (List	only those s	urveys ti	hat ere sources	for photogram	mmetric survey	information.)
SURVEY NUMBER	DATE(S)	SURVEY CO	PY USED	SURVE	EY NUMBER	DATE(S)	SURV	/EY COPY USED
н-9335	Surveyed	]	<b></b>	]		]	]***	
н-9346	1972	Registe	ered				1	
5. FINAL JUNCTION	<del></del>	1 3 3 3 3		<u></u>		<u>. L,</u>		
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T-12544 (1:5,		No Surve	ЭY	T-1	2546 (рн-6	5402)	No Su:	rvey
REMARKS				<del></del>			•	

A portion of inset map T-12544 lies within the northern segment of this map.

T-12545  HISTORY OF FIELD OPERATIONS  DEPARTION FIELD EDIT OPERATION  OPERATION NAME DATE June/July R. Newsom 1964 RECOVERED BY E. Cline May 1964 PRE-MARKED OR IDENTIFIED BY E. Cline May 1964 PRE-MARKED OR IDENTIFIED BY E. Cline May 1964 RECOVERED BY E. Cline May 1964 PRE-MARKED OR IDENTIFIED BY NONE RECOVERED BY NONE PRE-MARKED OR IDENTIFIED BY NONE PRE-MARKED OR IDENTIFIED BY NONE LANDMARKS AND LOCATED (Fleid Methods) BY AIDS TO NAVIGATION  TYPE OF INVESTIGATION	10AA FORM 76-36C 3-72)		NATIONAL OCEA	U. S. DEPARTME	NT OF COMMERCE
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PHOTO NUMBERS (Clarification of details)  63 (S) 8086-8088 (Matte Contacts, 1:30,000 scale)  63 (C) 8159-8160 (Cronapaque Contacts, 1:15,000 scale)  LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  None  PHOTO NUMBER OBJECT NAME PHOTO NUMBER OBJECT NAME  GEOGRAPHIC NAMES: REPORT NONE 6. BOUNDARY AND LIMITS: REPORT NONE					
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PHOTO NUMBERS (Clarification of details)  53 (S) 8086-8088 (Matte Contacts, 1:30,000 scale)  53 (C) 8159-8160 (Cronapaque Contacts, 1:15,000 scale)  LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  None  PHOTO NUMBER OBJECT NAME PHOTO NUMBER OBJECT NAME  GEOGRAPHIC NAMES: REPORT NONE 6. BOUNDARY AND LIMITS: REPORT NONE	****	ation of maticularity	1.3 / 4.5 - 5.4 - 5.4	ara e e e e	
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NOTIC	None	5 (Sketch books, etc. DO NOT list data submit			

NOAA FORM 76-36C

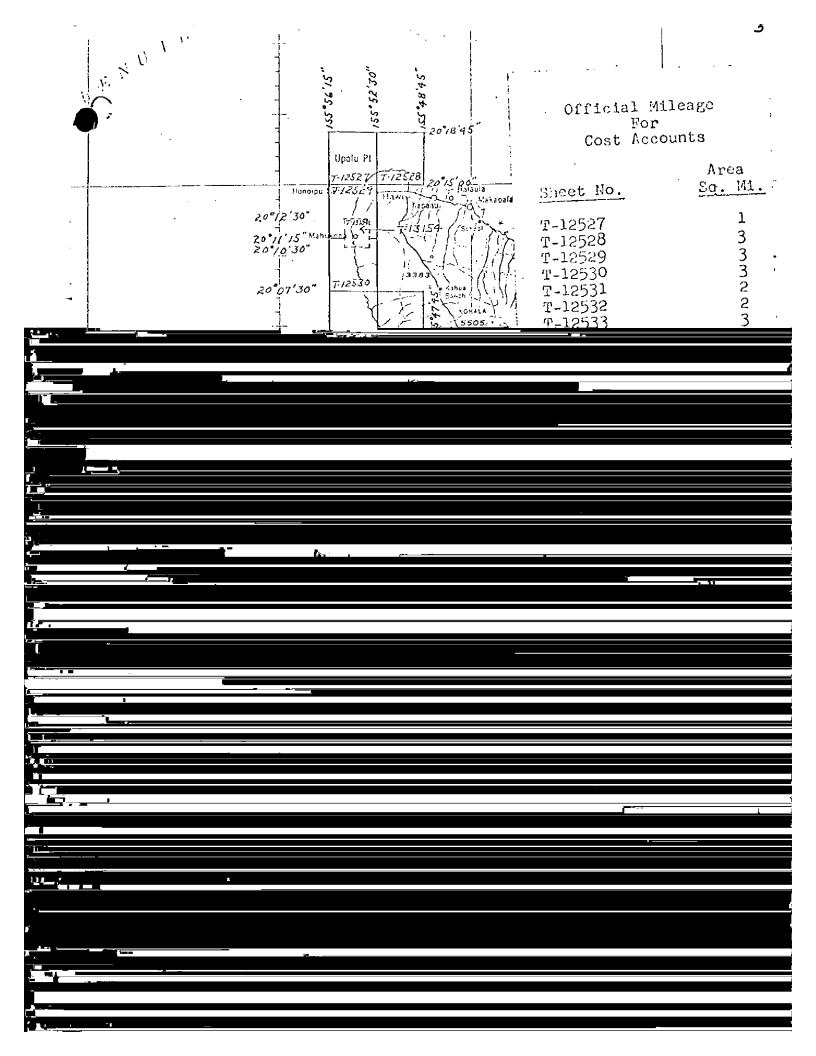
1 form 152 (CSI) 1 form 266 1 form 269C

NOAA FORM 76—36C (3—72)	T-1254 History of Field	•	AND ATMOSPHERIC	NT OF COMMERCE C ADMINISTRATION AL OCEAN SURVEY
1 FIELD INSPECTION OPE	RATION X FIELD	D EDIT OPERATION		
OF	PERATION	NAM	IE	DATE
1. CHIEF OF FIELD PARTY		(NOAA ship R G. Harden	AINIER)	Oct. 1972
<u> </u>	RECOVERED BY	S. Hollinshe		Oct. 1972
2. HORIZONTAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED BY	None		
3. VERTICAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None		
R	ECOVERED (Triangulation Stations) BY	None		
4. LANDMARKS AND	LOCATED (Field Methods) BY	None		
AIDS TO NAVIGATION	1DENTIFIED BY	None		
	TYPE OF INVESTIGATION			
5. GEOGRAPHIC NAMES	COMPLETE BY	!		
INVESTIGATION	SPECIFIC NAMES ONLY	]		
	X NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	*S. Hollinsh	ead	Oct. 1972
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None		
II. SOURCE DATA				
1. HORIZONTAL CONTROL IDE	INTIFIED	2. VERTICAL CONTRI	OL IDENTIFIED	
None		None		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DES	IGNATION
3. PHOTO NUMBERS (Clarificate 63 (S) 8088 (Matte Rat	•			
4. LANDMARKS AND AIDS TO N None	IAVIGATION IDENTIFIED			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
5. GEOGRAPHIC NAMES:	REPORT NONE	6. BOUNDARY AND L	IMITS: REPOR	RT [X NONE
7. SUPPLEMENTAL MAPS AND		14 2 3	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	
None			_	_
l Field Edit Report, (*Field edit is also	etch books, etc. <b>DO NOT</b> list data submitt , 1 Field Edit Paper Print o included on the inset ma (S)8159, 8160, 1:5,000 sca	t ap (T-12544) fi		er print

NOAA FORM 76-36D

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
T-12545

		RECOI	RD OF SURVE	Y USE		
I. MANUSC	RIPT COPIES					
<b></b>	Co	MPILATION STAGE	<u> </u>		DATE MANUSCRI	PT FORWARDED
	ATA COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
  Compila	tion complete	<b>!</b>	Class III		}	Jan. 1970
	field edit	Jan. 1970	Manuscrip		<u> </u>	May 1972
  Field e	dit applied	,	Class I		<b>)</b>	
compila	tion complete	July 1980	Manuscrip	t	<u> </u>	Aug. 1980
					}	,
Final R	eview	Feb. 1987	Final Map	,	MAIL 1987	mar 1987
		<u> </u>				
II. LANDM	ARKS AND AIDS TO NAVIGA	TION None				
1. REPO	RTS TO MARINE CHART DE	VISION, NAUTICAL	DATA BRANCH			
NUMBER	CHART LETTER Number assigned	DATE FORWARDED		RE	MARKS	
	<del></del>		<u> </u>			
				<del></del>		
	<u> </u>					
2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED:  3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:						
III. FEDER	III. FEDERAL RECORDS CENTER DATA					
- ~						
1. T BRIDGING PHOTOGRAPHS; TO DUPLICATE BRIDGING REPORT; TO COMPUTER READOUTS.						
2. X CONTROL STATION IDENTIFICATION CARDS; FORM NOS 567 SUBMITTED BY FIELD PARTIES. 3. X SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.						
3. (A) SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:						
4. [] (	4. T DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED:					<u>.</u>
IV. SURVE	Y EDITIONS (This section s			p edition is register	ed)	
SECOND	SURVEY NUMBER	JOB NUMBER (2) PH	₹		TYPE OF SURVEY	SURVEY
EDITION	DATE OF PHOTOGRAPH		ELD EDIT		MAP CLASS	· · · · · · · · · · · · · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·	<u> </u>		FINAL



# SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

### T-12545

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 west coast of Hawaii Island from Lat. 19° 30' 00" to Lat. 19° 33' 45". The northern segment of the map is common to the southern portion of inset map T-12544, 1:5,000 scale. This map defines the southern limit for the project and junctions with shoreline project PH-6402, map T-12546.

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 June/July 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 January 1970. Copies of the manuscript and hydrographic support data were forwarded to the hydrographer for field edit.

### T-12545

Field edit was conducted in conjunction with hydrographic survey H-9335 and H-9346 by NOAA Ship RAINIER personnel in October 1972. This activity also included field edit for the common inset map T-12544.

Application of field edit was completed at the Atlantic Marine Center in July 1980. This included the transferring of field edited shoreline detail from the common inset map T-12544. Sufficient information was submitted to advance the manuscript to Class I.

Final review was performed at the Atlantic Marine Center in February 1987. 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-12545

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.

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.

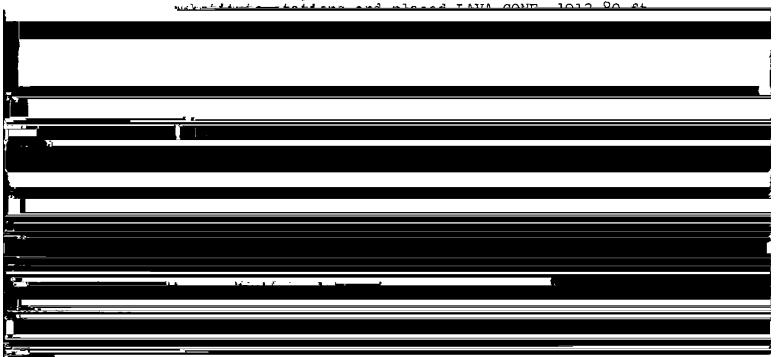
### 22. Method

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



# 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 hearing completion. Photography was adequate in regard to definition and overlap.

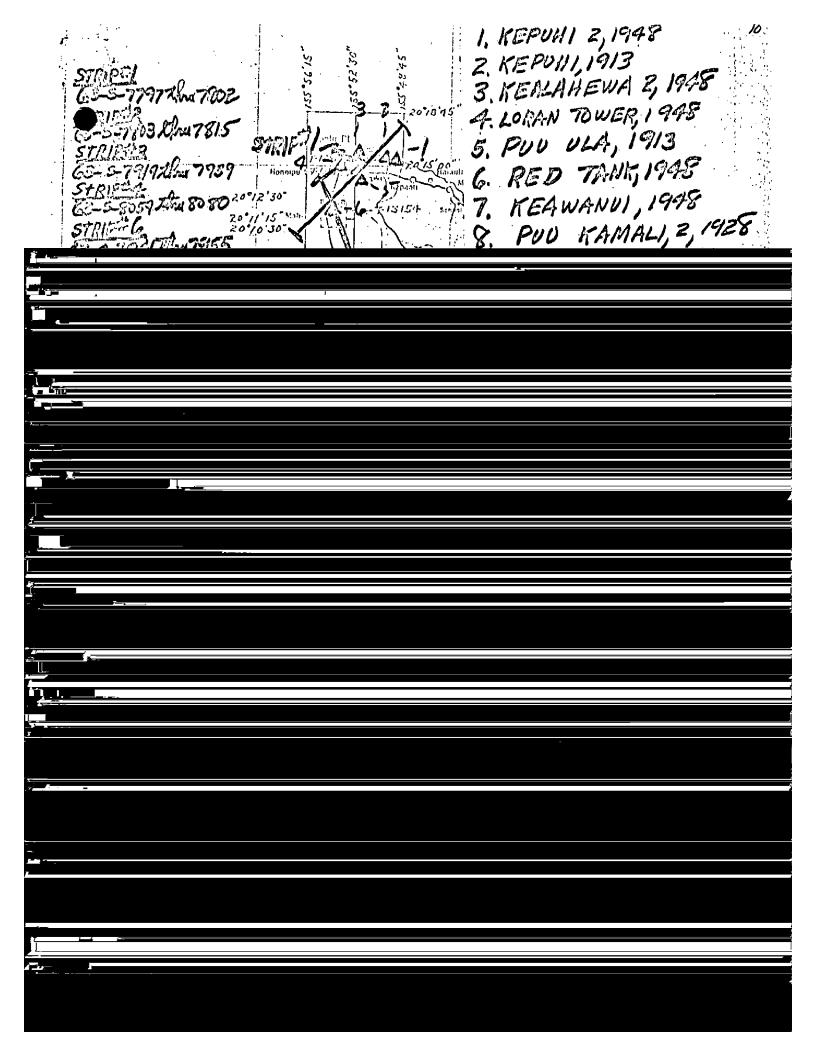
Submitted by,

John D. Perrow, Jr.

Approved by,

Henry P. Eichert

Chief, Aerotriangulation Section



NOAA FORM 41		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD	}	U.S. C	U.S. DEPARTMENT COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO.	JOB NO.		GEODETIC DATUM		ORIGINATING ACTIVITY	<u> </u>
T-12545	PH-6401		Old Hawaiian		AMC, Coastal	Mapping
Union in California		AEROTRI-	COORDINATES IN FEET	GEOGRAPHIC POSITION	₹ .	200
	INFORMATION (Index)	POINT NUMBER	1 1	Y TON	LONGITUDE	CARAETA
			χs	Ф 19 33	28.265	
Target, 1928	G.P. Pg. 64		ly=	Å 155 58	06.752	
			χ=	φ 19 33	26.856	
LUN, 1948	G.P. Pg. 15		y=	λ 155 56	21.648	
			χ=	ф 19 33	23,387	
KEAUHOU COAST, 1948	G.P. Pg. 15		y=	λ 155 58	10.189	
			-χ	ф 19 30	52.527	
(H.T.S.: 1928), 1883	G.P. Pg. 15		<i>h</i> =	57	20,844	
			<i>-</i> χ	\$ 19 33	42.326	
POINT, 1928	G.P. Pg. 31		je.	λ 155 58	08,207	
			=χ	1		
			j-h	γ		
			= <b>X</b>	<b>4</b>		
			η=	γ		
			<i>-</i> %	φ		
			Йз	γ		
			<i>π</i> χ	•		
			Ŋ=	γ		
			-χ	ф		
;			y <sub>a</sub>	_ τ		
COMPUTED BY A. C. Rauck, Jr.		DATE 7/25/69	COMPUTATION CHECKED BY L. L. Graves			DATE 10/10/69
LISTED BY		DATE	LISTING CHECKED BY			
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY			DATE
		SUPERSEDES NO	RSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.		

### COMPILATION REPORT T-12545

### 31 - DELINEATION

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

The northern segment of this map is common to the southern portion of inset map T-12544, 1:5,000 scale. Shoreline detail for this area was originally omitted but later delineated from a reduction of T-12544.

### 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 charted aids or landmarks within the map limits.

### 38 - CONTROL FOR FUTURE SURVEYS

None.

### T-12545

### 39 - JUNCTIONS

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

### 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 Quadrangle: Kealakekua, Hawaii, dated 1960, 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.



None.

### ITEMS TO BE CARRIED FORWARD

None.

#### 17

### ADDENDUM TO THE COMPILATION REPORT

### T-12545

Field edit was performed in conjunction with hydrographic surveys H-9335 and H-9346 in October 1972. Inset map, T-12544, which is partially common to this map, was also field edited at the same time. During the application of field edit, the common inset detail was reduced and transferred to this map. The combined edit data was applied to the manuscript and the map was advanced to Class I.

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6401 (Hawaii)

T-12545

Honalo Bay

Kaholae Point

Kainaliu Bay

Kaukalaelae Point

Kawanui Bay

Keikiwaha Point

Kualanui Point

Kuamoo Point

Leinokano Point

Maihi Bay

Mokupupu Rock

Nauha Point

Nenue Point

Paaoao Point

Pacific Ocean

Puu Loa---Not compiled

Puu Ohau

Paaoao Bay

Approved by:

A. Joseph Wraight Chief Geographer

Prepared by

Frank W. Pickett

Cartographic Technician

# FIELD EDIT REPORT

Ψ,

OPR-419, 1972

T-12539 through T-12550 7-73382 7-7796 Kona Coast, Hawaii

NOAA Ship RAINIER
CAPT G.E. HARADEN
Commanding

### INTRODUCTION - METHODS

Field edit was accomplished between 14 September and 26 October 1972 by personnel of the NOAA Ship RAINIER. Work was performed from a 16 foot skiff. Landings were made where necessary to verify shoreline character.

The field edit started approximately 0.4 miles northeast of Puialca Point. Hawaii and extended southward to Puoa Point (see appendix). Editing was completed on Manuscripts T-12539, T-12540, T-12541, T-12542, T-13382, T-12543, T-12544, T-12545, T-11796, T-12546, T-12548, and T-12549. Field edit was begun but not completed on Manuscript T-12550. No field edit was done on Manuscripts T-12547 and T-11797.

All additions and corrections were noted in purple on the field edit ozalids. Deletions were accented in green. Photos used in this edit were from PH-6401 and 6402. Values given for distances from MHWL and heights of rocks were estimated. All time references were made to 150° W longitude.

To aid in cross-referencing, A "Manuscript Reference Index" and a "Position Abstract" are included in the appendix. Also included in the appendix are: 1) List of detached positions, 2) A complete signal tape listing, 3) Listing of Triangulation Stations recovered, established, and re-established.

### ADEQUACY OF COMPILATION

The compilation of the MHWL on the edited manuscripts was excellent and required very few corrections. In general the compilation of off-shore features was also excellent. Time and height data for rocks not identified on the manuscripts has been included on the photographs.

### DISCUSSION AND RECOMMENDATIONS

T-12539 (completed) Mahailua Bay

The shoreline in this area is primarily composed of steep cliffs 20' high, interspersed with sandy beach. The northern and southern-most buildings at Mahailua Bay are the only two prominent objects in the vicinity and therefore are of land-mark value. The wooden windmill located at 19° 47' 13.35" N and 156° 02' 22.50" W, is no longer standing and should be deleted from C&GS Chart 4140. Further information is furnished on NOAA Form 76-40 (see appendix).

T-12540 (completed) Makako Bay

The shoreline in this area is composed primarily of low bluffs and sandy beach with marsh surrounding fish ponds.

Keahole Point Lighthouse is of landmark value. The lighthouse was field identified from photo 63-S-7943. Further information is provided on NOAA Form 76-40 (see appendix).

### T-13382 (completed) Honokohau Bay

The shoreline in this area is composed primarily of gently sloping lava flows with interspersed sandy beach and marsh surrounding Kaloko Fish Pond.

Keahuolu Point Northeast Range Marker, 1948, is of landmark value. Keahuolu Point Northwest Range Marker, 1948, has fallen over and is no longer visible from seaward. Four new navigatinal lights mark the entrance to the new boat basin at Honokohau, located just south of Maliu Point. Further information is privided on NOAA Form 76-40

# T-12541 (completed) Kailua Bay

The shoreline in this area is composed primarily of sloping lava rock with marsh surrounding small ponds and fish ponds at Honokohau Bay.

\* NOTE: Keahuolu Point Northeast Range Marker, 1948, and Keahuolu Point Northwest Range Marker, 1948, are located on Manuscripts T-12541 and T-13382.

The northern-most building at Honokohau, although small, is of landmark value as a navigational aid when entering the Honokohau boat basin. Keahuolu Point Northeast, Keahuolu Point Southeast, and Keahuolu Point Southwest Range Markers are very faded and weathered but are of landmark value. The building located at Honokohau (approximate location, latitude 19°40'25.85" N and longitude 156°01'44.83" W) and Keahuolu Point Northwest Range Marker are not visible from seaward and should be deleted. Further information is provided on NOAA Form 76-40 (see appendix).

### T-12542 (completed) Kailua Bay

The shoreline in this area is composed primarily of low bluffs interspersed with sandy beach.

The facade of the Kona Hilton Hotel, which is illuminated yellow at night, and Kailua Lighthouse are of landmark value; both were intersected using second order, class II methods. A crane lighted at night by a floodlight and used by fishermen as a navigational aid and the Kailua Mokuaikaua Church spire are also of landmark value.

The cattle pens, small craft warning mast, and building on the Kailua pier have been removed and should be deleted. The tanks located at latitude 19°38'34.80" N, and longitude 156°00'03.46" W, and the Kona Airport Airway Beacon have been removed and should be deleted. The church spire, latitude 19°38'24.22"" N and longitude 155°59'37.05" W, is

present as described but is obscured by vegetation. Further information is provided on NOAA Form 76-40 (see appendix).

## T-125h3 (completed) Keauhou Bay

This area is composed primarily of rocky shoreline interspersed with sandy beaches.

New buildings at latitude 19°35'52.50 " N, longitude 155°58'31.50" W and latitude 19°34'39.60" W, longitude 155°58'12.60" W are not of landmark value. A hotel just south of Kalaau o Kalakani and a blue church building at Kahaluu Bay are of landmark value.

A spire at Kahaluu Bay is not visible and should be deleted. Further information is provided on NOAA Form 76-40 (see appendix).

# T-12544 (completed) Keauhou Bay

The shoreline in this area is primarily composed of lava bluffs 30 feet high.

Keauhou Bay Light and Keauhou Bay Entrance Directional Light (both lights on the same structure) and the Kona Surf Hotel (approximate position scaled) are of landmark value. Further information is provided on NOAA Form 76-40 (see appendix).

# T-12545 (completed) Keikiwaha Point

The shoreline in this area is composed of low lava bluffs approximately 10 feet high. There are no objects of landmark value.

T-12546 (completed) Keawekaheka Bay

.,

The shoreline in this area is primarily composed of lava bluffs approximately 30 feet high.

There are no objects of landmark value.

T-11796 (completed) Kealakekua Bay

The shoreline in this area consists of low lava bluffs six to ten feet high with rocky beaches and a steep cliff (160 feet high) on the northeast side of the bay.

Napoopoo, Kahikolu Church Spire, 1913, Napoopoo Lighthouse, and Captain Cook's Monument are all of landmark value.
Further information is provided on NOAA Form 76-40 (see appendix).

T-12547 (incomplete) Kealakekua Bay

No field edit was done on this manuscript.

T-11797 (incomplete) Honaunau Bay

No field edit was done on this manuscript.

T- 12548 (completed) Kauhako Bay

The shoreline in this area is composed of bluffs approximately 40-60 feet high with interspersed sandy beach. Buildings in the area indicated on the manuscript at Kauhako Bay are of landmark value. (building locations were not determined by the field editor or located by the compiler - see manuscript).

A church steeple located near Palianihi Point no longer exists and should be deleted.

Further information is provided on NOAA Form 76-40 (see appendix).

T-12549 (completed) Kauluoa Point

The shoreline in this area is composed of cliffs from 10 to 60 feet high interspersed with gravel, sand, and rocky beaches. There are no objects of landmark value.

T-12550 (incomplete) Puoa Point

The shoreline in this area is composed of lava bluffs

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# MANUSCRIPT REFERENCE INDEX

# OPR-419

# FIELD EDIT

MANUSCRIPT NUMBER	REFERENCE PHOTO NUMBERS	REFERENCE DETATCHED POSITIONS
T-12539 Mahailua Bay	63-S-7948 63-S-8060	
T-12540 Makako Bay	63-S-7943 63-S-8063*	÷
T-125l↓1 Kailua Bay	63-S-8063* 63-S-80914	
T <b>-</b> 13382 Honokohau Bay	69-E-9255 69-E-9254	
T-125l;2 Kailua Bay	63-S(C)-7913 63-S(C)-7915 63-S(C)-7917	Detatched Positions 10/05/72
T-12543 Keauhou Bay	63-S-8067 63-S-8068	
T-12544 Keauhou Bay	63-S(C)-8158 63-S(C)-8159 63-S(C)-8160	

\*NOTE: Photo 63-S-8063 used on T-Sheets T-12540 and T-12541

MANUSCRIPT NUMBER	REFERENCE PHOTO NUMBERS	REFERENCE DETATCHED POSITIONS
T-125455 Keikiwaha Point	63-8-8088 63-8-8087*	
T-12546 Keawekaheka Bay	63-S-8087*	
T-11796 Kealakekua Bay	63 <b>-</b> S-8138	Detatched Position 9/14/72
T-12547 Kealakekua Bay	**	·
T-11797 Honaunau Bay	**	
T-12548 Honaunau Bay	63-S(C)-8027 63-S(C)-8026 63-S(C)-8025	
T-12549 Kauluoa Point	63-s(c)-8024 63-s(c)-8023 63-s(c)-7888 63-s(c)-7887 63-s(c)-7886	
T <b>-</b> 12550	63-s(c)-7884	

Photo 63-S-8087 used on T-Sheets T-12545 and T-12546 \*NOTE:

\*\*NOTE: No field edit done

### REVIEW REPORT T-12545

### SHORELINE

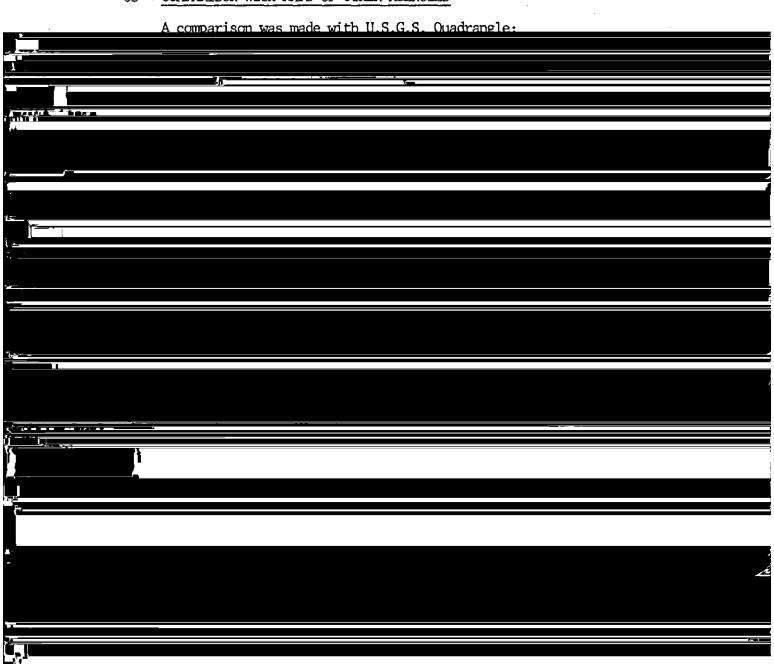
### 61 - GENERAL STATEMENT

Final review for this final field edited map was accomplished at the Atlantic Marine Center in February 1987. 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



FORM C&GS-8352 (3-25-63)

### NAUTICAL CHART DIVISION

### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-12545, (PH-6401)

### **INSTRUCTIONS**

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

1. Letter all information.

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

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