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.
т-13382	1
Job No.	
рн-6401	
Map Classification	
FINAL FIELD EDITED MAP	
Type of Survey	
SHORELINE	
LOCALIT	Υ
State	-
HAWAII	
General Locality	
HAWAII ISLAND, WEST COAST, UPOLO	POINT TO KAILUA
Locality	
HONOKOHAU BAY	
19 63 TO 19	972
REGISTERED IN A	RCHIVES
DATE	

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7

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP. 13382
MINISTRE SCENIC AND ATMOSPHERIC ADMIN.	M ORIGINAL	MAPEDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final
	REVISED	јов Рн. 6401
PHOTOGRAMMETRIC OFFICE	LAST PRECEEDS	NG MAP EDITION
Coastal Mapping Unit, Atlantic Marine Center	TYPE OF SURVEY	JOB PH
Norfolk, VA	ORIGINAL .	MAP CLASS
OFFICER-IN-CHARGE	☐ RESURVEY	SURVEY DATES:
Richard Houlder	REVISED	19TO 19
I. INSTRUCTIONS DATED		
1, OFFICE	2.	FIELD
Compilation September 12, 1968 Supplement No. 1 February 11, 1969 Supplement No. 2 December 11, 1969 Compilation March 11, 1969	Control/Field Insp	pection April 29, 1964
II. DATUMS		
1. HORIZONTAL: [] 1927 NORTH AMERICAN	OTHER (Specity) Old Hawaiian Da	atrim
	OTHER (Specify)	t Cuili
MEAN HIGH-WATER	, , , ,	
2. VERTICAL: MEAN LOWER LOW-WATER		
MEAN SEA LEVEL		
3. MAP PROJECTION		GRID(S)
Polyconic	Hawaii	ZONE
5. SCALE	STATE	ZONE
1:5,000		
III. HISTORY OF OFFICE OPERATIONS	T	
OPERATIONS 1. AEROTRIANGULATION BY	NAME	Oct 1971
METHOD: stereoplanigraph LANDMARKS AND AIDS BY	J. Perrow J. Perrow	Oct 1971
2. CONTROL AND BRIDGE POINTS PLOTTED BY	ì	Oct 1971
METHOD: coradomat CHECKED BY	J. Perrow	Oct 1971
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	A. Shands	Nov 1971
COMPILATION CHECKED BY	L. Neterer, Jr.	Nov 1971
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.	ull tru
scale: 1:5,000 CHECKED BY 4. MANUSCRIPT DELINEATION PLANIMETRY BY	N.A.	Nov. 1071
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY	J. Bulfer L. Graves	Nov 1971 Nov 1971
CONTOURS BY	N.A.	
метнор: smooth drafted снескер ву		
SCALE: 1:5,000 HYDRO SUPPORT DATA BY	J. Bulfer	Nov 1971
CHECKED BY	L. Graves	Nov 1971
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	L. Graves	Nov 1971
6. APPLICATION OF FIELD EDIT DATA	L. Graves	Mar 1973
7. COMPILATION SECTION REVIEW BY	R. Minton	May 1974 May 1974
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	P. Dempsey	May 1987
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	EL DAUGHEIZTY	14N 1987

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

T-13382

		COM	IPILATION	SOURCES			
1. COMPILATION PHO	TOGRAPHY	·					
CAMERA(S)Wild RC			TYPES	OF PHOTOGRAPHY LEGEND	Τı	ME REFEREI	
Wild R.C 8" TIDE STAGE REFERE	<u>'E"; E=1</u> nce	52.71mm			ZONE		
PREDICTED TIDE:	5		(C) COLO	OR CHROMATIC	Yukon	1	X)STANDARD
REFERENCE STAT		1	(P) PANC		MERIDIAN		DAYLIGHT
TIDE CONTROLLE				 	135th		
NUMBER AND	TYPE	DATE	TIME	SCALE	s	TAGE OF TI	DE
63S(P)8063-806	5*	Sept 1, 1963	09:10	1:30,000	0.4 ft a	above MLI	∑ W
69E(C)9254-925	5**	Mar 11,1969	12:28	1:15,000	0.3 ft a	above MLI	-W
			<u> </u>		Mean Tid	le Range	= 1.4 ft
REMARKS						. —	
*Bridging Phot	ographs	, **Compilation	Photogr	anhe			
2. SOURCE OF MEAN			. 1110 30g1	45110		· ·	
The mean	hiah wat	or line was as				_	
compilati	nigh wat	ter line was co	ubited t	rom office in	terpretatio	on of the	:
COMPTIACI	on photo	ographs using s	tereo in	strument meth	ods.		
3. SOURCE OF MEAN	LOW-WATE	ROR MEAN LOWER LO	OW-WATER LI	NE:			
No							
No mean 10	ower low	v water line wa	s compil	ed.			
					 -		
4. CONTEMPORARY	HYDROGRA	PHIC SURVEYS (List o	only those sur	veys that are sources	for photogrammetri	c survey info	rmation.)
SURVEY NUMBER	DATE(S)	SURVEY CO	Y USED	SURVEY NUMBER	DATE(S)	SURVEY	COPY USED
н-9334	survey	register	ed				
5. FINAL JUNCTION			L		<u> </u>		
NORTH	.	EAST		SOUTH	WES	т	
T-12540		T-12542		T-12542	No	o survev	
REMARKS							
This 1:5,000	scale i	nset map is co	ntained v	within the lir	mits of map	T-12541	!
(1:10,000 sca	ıle).				-		

NOAA FORM 76–36 (3–72)	ic .	T-13382		ANIC AND ATMOSP	RTMENT OF COMMERCE HERIC ADMINISTRATION TIONAL OCEAN SURVEY
		HISTORY OF FIELD	OPERATIONS		
I. X FIELD INSP	ECTION OPE	RATION FIEI	_D EDIT OPERATION	ł	
	OF	ERATION		NAME	DATE
1. CHIEF OF FIE	LD PARTY		R. Newsom		Jun/Jul 196
		RECOVERED BY			
2. HORIZONTAL	CONTROL	ESTABLISHED BY			
		PRE-MARKED OR IDENTIFIED BY			Jun/Jul 196
		RECOVERED BY			
3. VERTICAL CO	NTROL	ESTABLISHED BY			
		PRE-MARKED OR IDENTIFIED BY	None		
		ECOVERED (Triangulation Stations) BY	E. Cline		Jun/Jul 196
LANDMARKS A AIDS TO NAVIO		LOCATED (Field Methods) BY	None		<u> </u>
		IDENTIFIED BY	E. Cline		Jun/Jul 196
_		TYPE OF INVESTIGATION			
5. GEOGRAPHIC INVESTIGATIO		COMPLETE BY			
		SPECIFIC NAMES ONLY			
		NO INVESTIGATION			
6. PHOTO INSPEC		CLARIFICATION OF DETAILS BY	E. Cline	·	Jun/Jul 196
7. BOUNDARIES		SURVEYED OR IDENTIFIED BY	None		
II. SOURCE DATA 1. HORIZONTAL		FNTIFIED	2. VERTICAL CO	NTROL IDENTIFIE	· n
I. HOMEON AL	CONTROL ID.			NI NOE IBENTINE	
			None	1	
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATIO	N DESIGNATION
63(s)8036*	1	lu Point NE & NW Range s, 1948 (direct)			•
				1	
	*Section	n of ratio photos submitt	ed.		
	8095, 80	^{ion of details)} 196 (Matte Contacts) 111 (Cronapaque Contacts)			
4. LANDMARKS A	IND AIDS TO I	NAVIGATION IDENTIFIED	·	· 	
		·			
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	08.	JECT NAME
63 (S) 8036	Keahoulu Markers,	Point NE & NW Range			`
5. GEOGRAPHIC	NAMES;	REPORT NONE	6. BOUNDARY AN	ID LIMITS: E	REPORT XX NONE
7. SUPPLEMENT	AL MAPS AND	PLANS			
None		•			
8. OTHER FIELD	RECORDS (SA	etch books, etc. DO NOT list data subm	itted to the Geodesy E	Division)	
2 forms	152 (CSI	:)			

NOAA FORM 76-36C (3-72)

NOAA FORM 76-36((3-72)	C T	T-13382 HISTORY OF FIELD		U, S. NIC AND AT	MOSPHERIC	NT OF COMMERCE ADMINISTRATION L OCEAN SURVEY
I. TIELD INSP	ECTION OPE	RATION	D EDIT OPERATION	•		
	OP	ERATION	<u> </u>	NAME		DATE
1. CHIEF OF FIEL	D PARTY		(NOAA Ship F	AINIER)		Sep 1972
		RECOVERED BY	S. Hollinshe	ad		Sep 1972
2. HORIZONTAL C	CONTROL	ESTABLISHED BY	None	<u> </u>		Sep 1972
		PRE-MARKED OR IDENTIFIED BY	None			
		RECOVERED BY	None			
. VERTICAL CON	NTROL	ESTABLISHED BY	None	 		
		PRE-MARKED OR IDENTIFIED BY	None			
		ECOVERED (Triangulation Stations) BY	S. Hollinshe			Sep 1972
I. LANDMARKS AN AIDS TO NAVIG	_	LOCATED (Field Methods) BY	S. Hollinshe			Sep 1972
		TYPE OF INVESTIGATION	S. Hollinshe	ad	 .	Sep 1972
. GEOGRAPHIC N		COMPLETE BY				
INVESTIGATION	N	SPECIFIC NAMES ONLY	2 2 2			
		NO INVESTIGATION	*p. 102212.p.			, , , , , , , , , , , , , , , , , , ,
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	*S. Hollinsh	ead		Sep 1972
BOUNDARIES A		SURVEYED OR IDENTIFIED BY	None	-		
I. SOURCE DATA I. HORIZONTAL C None		NTIFIED	2. VERTICAL CON	NTROL IDEN	TIFIED	
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	5 T	ATION DESI	GNA TION
3. PHOTO NUMBE	•	•				
		te Ratios, 1:10,000 scale	e); 69(E)9254 ————	, 9255	(Matte Rail 1:5,000	atios scale)
4. LANDMARKS A	ND AIDS TO N	AVIGATION IDENTIFIED				
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER		OBJECT N	AME
63(s) 8063	BUILDIN	G (North one of three)				
5. GEOGRAPHIC N	LAMES,	REPORT (X) NONE	4 BOUNDARY AND	D.I. IMITE:		- []
7. SUPPLEMENTA			6. BOUNDARY AN	U LIMITS:	REPOR	т [Х] иоие
		ngineers Dredging Diagram	n of Honokoha	u Small	Воа Наз	rbor
1 Field Edit (*Field edit	Report,	etch books, etc. DO NOT list data submit 2 forms 76-40, 1 Field E included on the common s inset lies within)	Edit Paper Pr	int	41 field	d edit paper

NOAA FORM 76-36D (3-72)

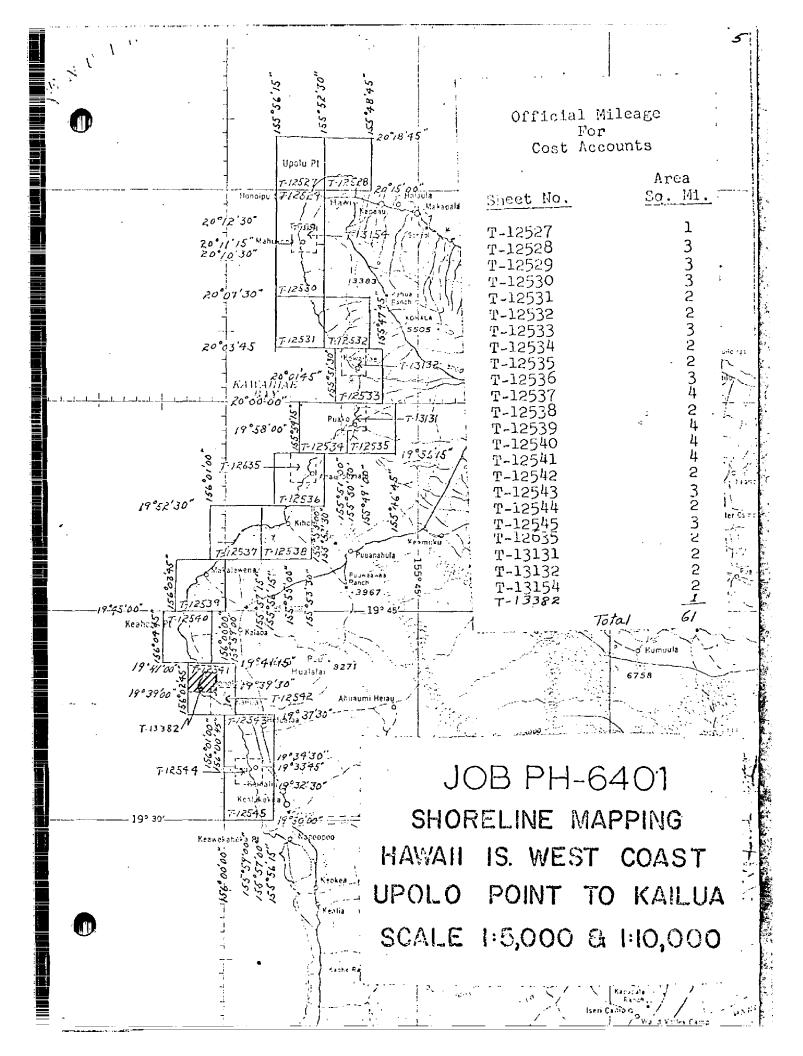
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U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

T-13382

RECORD OF SURVEY USE

		KECU	KD OF SOKYE	1 U2E			
I. MANUSC	RIPT COPIES						
	Co	MPILATION STAGE	s		DATEMA	NUSCRIE	T FORWARDED
	DATA COMPILED	DATE	RE	MARKS	MARINE C	HARTS	HYDRO SUPPORT
Compil	ation complete	·			Ì	l	
pendin	ng field edit	Nov 1971	Class III	manuscript		Ì	Nov 1971
		 		-			
	edit applied						
compil	ation complete	May 1974	Class I ma	anuscript			May 1974
Final	Review	Feb 1987	T-11 15			<u> </u>	mar 1987
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II LANDN	ARKS AND AIDS TO NAVIGA	TION	1				
	ORTS TO MARINE CHART D	· ·	DATA BRANCH				
76-40	CHART LETTER	DATE					
pages	NUMBER ASSIGNED	FORWARDED		R	EMARKS		
2			Tondmoule	and aids fo	1		
-			Landmarks	and alds fo	r charts		
		<u> </u>					
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2. 🗆	REPORT TO MARINE CHAR	T DIVISION COAST	DI OT BRANCH	DATE FORWARD	ED.		
3.	REPORT TO AERONAUTICA	L CHART DIVISION	, AERONAUTICAL	DATA SECTION.	DATE FORW	ARDED:	
III. FEDEI	RAL RECORDS CENTER DA	TA					
	BRIDGING PHOTOGRAPHS;						
	CONTROL STATION IDENT						
3. (_X	SOURCE DATA (except for C ACCOUNT FOR EXCEPTION	Reographic Names Re NS:	port) AS LISTED (IN SECTION II, NO	AA FORM 76-36	6C.	
4. 🗆	DATA TO FEDERAL RECO	RDS CENTER. DAT	E FORWARDED:				
IV. SURVI	EY EDITIONS (This section :	shall be completed e	ach time a new mai	o edition is realste	red)		
	SURVEY NUMBER	JOB NUMBE			TYPE OF S		
SECOND		_ (2) PH			REVISED	RES	URVEY
EDITION	DATE OF PHOTOGRAP	HY DATE OF F	ELD EDIT		MAP CL	_	_
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FOURTH	TP	_ (4) PH			REVISED	RES	DRVÉY
EDITION	DATE OF PHOTOGRAP	HY DATE OF F	ELD EDIT		MAPCL		
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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-13382

This 1:5,000 scale final shoreline inset map is one of twenty-three maps that comprise PH-6401, Hawaii Island, Hawaii, West Coast, Upolo Point to Kailua. The project consists of seventeen 1:10,000 scale maps (T-12527 thru T-12541, T-12543, T-12545) and six 1:5,000 scale inset maps (T-12542, T-12544, T-12635, T-13131, T-13132, T-13382).

The purpose of this inset map was to provide a large scale portrayal of Honokohau Bay and vicinity for support of hydrographic operations and marine chart maintenance.

Photo coverage for the project was adequately provided in August/September 1963 using the Wild RC-8 "S" camera. Photography consisted of 1:30,000 scale panchromatic photographs used for field inspection and aerotriangulation. The 1:20,000 and 1:15,000 scale color photographs were used for compilation and hydro support. The 1:20,000 scale photo coverage was obtained for the 1:10,000 scale maps and the 1:15,000 scale photographs provided coverage of the 1:5,000 scale inset maps. Additional color photographs at 1:15,000 scale were obtained in February 1969 with the Wild RC-8"E" camera. These photographs were bridged and a supplemental plot report was prepared in order to compile three 1:5,000 scale inset maps (T-13131, T-13132 and T-12635). The stage of tide for all project photographs was based upon predicted tide data. No infrared photographs were provided.

Field work prior to aerotriangulation consisted of the recovery and establishment of horizontal control by photoidentification methods. In addition, a field inspection was performed for the project area utilizing the 1963 1:30,000 scale photographs.

Analytic aerotriangulation was adequately provided by the Washington Science Center in various 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 supplemental bridge was provided in October 1971 for the 1969 photo coverage of three 1:5,000 scale inset maps. A special bridge for this inset map was provided in October 1971 to control 1969 photo coverage of a new harbor area that did not appear on the original 1963 photographs. 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 1971. Delineation from the 1969 compilation photographs was assisted by the 1963 field inspected photographs and the compilation of the common smaller scale map T-12541, which encompasses this inset map. Copies of the manuscript and hydrographic support data were forwarded to the hydrographer for field edit.

Field edit was conducted in conjunction with the common 1:10,000 scale map T-12541 and hydrographic survey H-9334 by NOAA Ship RAINIER personnel in September 1972.

Application of field edit was accomplished at the Atlantic Marine Center in June 1974 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 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-13382

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 1963 1:30,000 contact photographs. There was no field inspection for the common 1969 color compilation photographs; consequently, a comparison with the 1963 field inspected photographs was the only pre-compilation source data.

October 1, 1971

SPECIAL PHOTOGRAMMETRIC PLOT REPORT Job PH-6401 Hawaii Island; Hawaii

A four model bridge (63-S-8064 thru 8067) was run to provide detail points in the area of T-13382 and exact scale ratios of photos 69-E(C)-9254 and 9255. The bridge was adjusted on three triangulation stations with companion points and one additional station as checks. All control held within National Map Accuracy Standards. Pass points from previous bridging served as additional checks on the bridging accuracy.

T-13382 lies on the west coast of Hawaii Island, Hawaii, with sheet limits of 19 41 ' 00", 19 39 ' 00", 156 6 00' 45 " and 156 02' 45 ".

John D. Perrow, Jr.

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13382 PH-6401 OHIGHNIM OF ACTIVITY	(6–75)		DESCRIPTIV	E REPORT CONTROL REC		C AND A I MOSPHERIC ADMINISTR	N C C
Number N	MAP NO.	JOB NO.		GEODETIC DATUM		46 ACTIVITY	
NAME NOWINGE OF MEDINAL SOURCE OF ANGULATION SOURCE OF NUMBER X SOURCE	T-13382	PH-6401		Old Hawaiian	_	Unit,	
NY NORTHEAST Number Number Northeast Number N	PARN MOLTATA	SOURCE OF	AEROTRI-	COORDINATES IN FEET STATE Hawaii	GEOGRAPHIC POSITION	REMARKS	
NT. NORTHERAST N. P. P. P. J. J. P. P. J. J. P. P. P. J. P. J. P. P. J. P. J. P. P. J.		(Index)	POINT		λ LONGITUDE		
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Nat. Southwest Nat.	RANGE MARKER, 1948			± f i	156 01		
NT, SOUTHEAST NE	SOUTHWEST			=X	19 39 08.374		
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COMPILATION REPORT T-13382

31 - DELINEATION

Delineation was by instrument and graphic methods using the 1969 1:15,000 scale compilation photographs. This 1:5,000 sheet is an inset map contained within the limits of T-12541 which was compiled at 1:10,000 scale from 1963 photographs. The 1963 1:30,000 scale field inspection photographs for the area and sheet T-12541 were used to assist in delineation.

The 1963 and 1969 bridging/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

A special bridge was provided to control the 1969 compilation photographs. Refer to the Special Photogrammetric Plot Report dated October 1, 1971 attached to the Descriptive Report.

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 1969 mapping photographs. Photo interpretation was assisted by examining the 1963 1:15,000 scale photographs used to compile the common small scale map, T-12541.

36 - OFFSHORE DETAILS

There were no significant offshore details.

37 - LANDMARKS AND AIDS

Appropriate data was prepared for field edit.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

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

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Special Photogrammetric Plot Report dated October 1, 1971 and the Plot Report dated February 4, 1969.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S Quadrangle Keahole Point, 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

L. Graves

Cartographer November 1971

Approved

Geny J. Harcock
Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

T-13382

Field edit for this inset map was performed in conjunction with hydrographic survey H-9334 in September 1972. The common small scale sheet, T-12541 was also edited during this time. Pertinent edit data from both sheets was applied to the manuscript. Delineation of the new harbor in Honokohau Bay was applied from the field editors copy of the U.S. Army Corps of Engineers dredging diagram. Adequate information was furnished in order to advance the manuscript to Class I status.

August 1, 1969

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6401 (Hawaii)

T-12541 (*T-13382)

- *Honokohau
- *Honokohau Bay Kahului Bay Kailua Bay Kailua Kona
- *Kaiwi Point
 Kalae Paakai
 Kaloko
 Kaloko Point
- *Keahuolu Point

 Kona Airport

 Kukailimoku Point

 Laniakea
- * Maliu Point

 -Nolo Point ---*Noio Point JulOneo Bay
- * Pacific Ocean
- * Pawai Bay Pohakuloa Rock Waiaha

Approved by:

A. Joseph Wraight Chief Geographer Prepared by

Frank W. Pickett Cartographic Technician

FIELD EDIT REPORT

OPR-419, 1972

T-12539 through T-12550 7-7382 7-1796 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.

15

The field edit started approximately 0.4 miles northeast of Puialoa 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).

W=1-3382-(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 (see appendix).

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-12543 (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-125μμ (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 Light-house, 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.

21

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 approximately 40-60 feet high. There are no objects of landmark value. Field edit was completed to Puoa Point.

Respectfully submitted,

teven J. Hollinshead

LTJG. NOAA

MANUSCRIPT REFERENCE INDEX

OPR-419

FIELD EDIT

MANUSCRIPT NUMBER	REFERENCE PHOTO NUMBERS	REFERENCE DETATCHED POSITIONS
T - 12539 Mahailua Bay	63-8-7948 63-8-8060	
T-12540 Makako Bay	63-8-79/43 63-8-8063*	
T-12541 Kailua Bay	63-8-8063* 63-8-8094	
Honokohau Bay	69-E-9255 69-E-9254	
T-12542 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-125144 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

REVIEW REPORT T-13382

SHORELINE

61 - GENERAL STATEMENT

Final review for this final Class III 1:5,000 scale inset map was accomplished at the Atlantic Marine Center in February 1987. The field inspection was performed in conjunction with the common smaller scale map, T-12541, which encompasses this inset map. For a schedule of the office and field operations, refer to the Summary included with this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S Quadrangle Keahole Point, Hawaii, dated 1959, scale 1:24,000.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison made with a registered copy of H-9334, RA-10-7-72, surveyed in 1972 did not reveal any significant differences.

65 - COMPARISON WITH NAUTICAL CHARTS

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

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

Jeny 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

HYDROGRAPHIC PARTY
GEODETIC PARTY
COMPILATION ACTIVITY
FINAL REVIEW GRP.
COAST PILOT BRANCH (See reverse for responsible personnel) AFFECTED CHARTS 19327 19331 ORIGINATING ACTIVIT Ξ = field editor METHOD AND DATE OF LOCATION (See instructions on reverse side) U. S. Army Engineers positions September submitted FIELD Corp of = 1972 U.S. DEPARTMENT OF COMMERCE NONFLOATING AIDS THE AND MARTEN FOR CHARTS Mar 1973 Not visible OFF ICE = = Ξ D.P. Meters been inspected from seaward to determine their value as landmarks. SURVEY NUMBER DATUM 47,85 43,68 43,20 45.91 LONGITUDE 01 01 0 0 Hawaii Island 156 156 156 156 ۰ POSITION D.M. Meters 20,70 22,44 22.77 Old Hawaiian 20,44 LATITUDE 40 40 40 40 19 19 19 19 0 DESCRIPTION Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses) Hawaii T-13382 Coastal Mapping, AMC Entrance Channel Light 3 REPORTING UNIT (Field Party, Ship or Office) HAVE X HAVE NOT Entrance Channel Directional Light Honokohau Harbor Channel Light Channel Light PH-6401 The following objects OPR PROJECT NO. Replaces C&GS Form 567. X TO BE CHARTED TTO BE DELETED TO BE REVISED NOAA FORM 76-40 (8-74) CHARTING ₩ S ന LIGHT LIGHT LIGHT LIGHT



	RESPONSIBLE PERSONNEL	PERSONNEL		_
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	S. Hollinshead		FIELD ACTIVITY REPRESENTATIVE	
OSI IONS DETERMINED AND/OR VERIFIED	L. Graves		OFFICE ACTIVITY REPRESENTATIVE	
FORMS ORIGINATED BY QUALITY CONTROL. AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES			ENEVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	_
	INSTRUCTIONS FOR ENTRIES UNDER (Consult Photogramme	FOR ENTRIES UNDER METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64)		
OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including monday, and year) of the photograph used to identify and locate the bject. EXAMPLE: 75E(C)6042 8-12-75	CATED OBJECTS (including month, btograph used to	FielD (Cont'd) B. Photogrammetric field entry of method of lodate of field work an graph used to locate EXAMPLE: P-8-V 74L(C)2982	Cont'd) Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photo- graph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982	
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F-2-6-L 8-12-75 are dete	ed by field obser- ground survey methods.	**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	OSITIONS are dependent pon control established pds.	

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION,

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			XX HYDROGRAPHIC PARTY
OBJECTS INSPECTED FROM SEAWARD	S. Hollinshead (NOAA Ship RAINIER)	RAINIER)	CEODETIC PARTY
		.	OTHER (Specify)
	S. Hollinshead		FIELD ACTIVITY REPRESENTATIVE
F. USITIONS DETERMINED AND/OR VERIFIED	L. Graves		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW			TEVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
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NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.



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NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. PH-6401, T-13382

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.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Revi

CHART	DATE	CARTOGRAPHER	REMARKS
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FORM CAGS-8382 SUPERSEDES ALL EDITIONS OF FORM CAGS-878.

USCOMM-DC #858-P63