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-12542	1
Job No.	
PH-6402	
Map Classification	
FINAL, FIELD EDITED MA	<i>T</i> P
Type of Survey	
SHORELINE	
_	LOCALITY
State	
HAWAII	
General Locality	
HAWAII ISLAND, WEST (COAST UPOLO POINT KAILUA
Locality	
KAILUA BAY	
106	3 TO 19 72
190	3 10 19 72
REGISTE	RED IN ARCHIVES
DATE	

NOAA FORM 76-36A (3-72) NATIONA	U. S. DEPARTMENT OF COMMERCE L OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP- 12542
	T SOLIMO MO KIMOSPILKIO KOMIN.	ORIGINAL	MAP EDITION NO. (])
DESCRIPTIVE RE	EPORT - DATA RECORD	RESURVEY	MAP CLASS Final
	OKT - DATA KEGOKD	REVISED	лов Р н <u> 6401</u>
PHOTOGRAMMETRIC OFFICE			
1	t, Atlantic Marine Center		NG MAP EDITION
Norfolk, VA		TYPE OF SURVEY	JOB PH-
OFFICER-IN-CHARGE		☐ RESURVEY	SURVEY DATES:
Richard Houlder		REVISED	19TO 19
I. INSTRUCTIONS DATED	· · · · · · · · · · · · · · · · · · ·	<u>'</u>	
	, OFFICE	2.	FIELD
		Field	
Compilation Supplement No. 1	September 12, 1968 February 11, 1969	Control/Inspection	April 29, 1964
Compilation	March 11, 1969		
Supplement No. 2	December 11, 1969		
N B. T. 1110			-
II. DATUMS		OTHER (Specify)	
1. HORIZONTAL:	1927 NORTH AMERICAN	Old Hawaiian Dat	um
	文 MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:	MEAN LOW-WATER		
Z. VERITORE:	MEAN LOWER LOW-WATER MEAN SEA LEVEL		
3. MAP PROJECTION	MEXIT JEX LEVEL	4	GR(D(S)
		STATE	ZONE
polyconic		Hawaii	1
5. SCALE		STATE	ZONE
1:5,000	PATIONS		
	PERATIONS	NAME	DATE
1. AEROTRIANGULATION	BY	J. Perrow	Feb 1969
метнор: stereoplania	graph LANDMARKS AND AIDS BY	H. Eichert	Feb 1969
2. CONTROL AND BRIDGE POI		J. Perrow	Feb 1969
METHOD: coradomat	CHECKED BY	H. Eichert	Feb 1969
3. STEREOSCOPIC INSTRUMEN		A. Shands	Sep 1969
COMPILATION INSTRUMENT: Wild B-8	CHECKED BY CONTOURS BY	C. Bishop	Sep 1969
scale: 1:5,000	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION		L. Graves	Oct 1969
	CHECKED BY	R. Pate	Jan 1970
метнор: Smooth di	rafted	N.A.	
1	CHECKED BY HYDRO SUPPORT DATA BY	N.A. I. Graves	 0at 1969
scale: 1:5,000	CHECKED BY	R. Pate	Oct 1969 Jan 1970
5. OFFICE INSPECTION PRIOR		R. Pate	Jan 1970
6. APPLICATION OF FIELD ED	DIT DATA	L. Graves	Aug 1973
	CHECKED BY	C. Blood	May 1974
7. COMPILATION SECTION REV		C. Blood	May 1974
8. FINAL REVIEW 9. DATA FORWARDED TO PHO	TOGRAMMETRIC BRANCH BY	J. Hancock J. Hancock	Feb 1987
10. DATA EXAMINED IN PHOTO	···	P. Dumpsey	Mar 1987
11. MAP REGISTERED - COASTA		F. L. DAUGHERT	Y MAY 1987
NOAA FORM 76-36 A	SUPERSEDES FORM CAGS 181 SERIES		

NOAA FORM 76-36B (3-72)	CO	T-12542 MPILATION SC		HC AND ATMOSPHER	MENT OF COMMERCE RIC ADMINISTRATION NAL OCEAN SURVEY
1. COMPILATION PHOTOGRAPHY					<u></u>
CAMERA(S)			PHOTOGRAPHY	TIME R	EFERENCE
Wild R.C 8"S"; S=1	52.29mm		EGEND	ZONE	
TIDE STAGE REFERENCE		(C) COLOR		Yukon	XSTANDARD
REFERENCE STATION RECOR	DS	(P) PANCHR		MERIDIAN	
TIDE CONTROLLED PHOTOGR	RAPHY	(I) INFRARI	<u></u>	135th	DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE	OF TIDE
63s(C)7913-7917 63s(C)8151-8153 63s(C)8148-8149	Aug 30,63 Sep 1, 63 Sep 1, 63	09:16 10:32 10:30	1:15,000 1:15,000 1:15,000	1.1 ft about 1.1 ft about 1.0 f	ve MLLW
REMARKS				Mean Tide	Range = 1.4 f
2. SOURCE OF MEAN HIGH-WATE The mean high water I photographs using ste	ine was compi		fice interpre	etation of the	e compilation
3. SOURCE OF MEAN LOW-WATE No mean lower low wat					

4. CONTEMPORARY	HYDROGRAPHIC SUF	RVEYS (List only those s	surveys that are sources	tor photograms	metric survey information.)
SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
н-9334	surveyed 1972	registered			
5. FINAL JUNCTIONS	5				
NORTH T-13382	EAST No	survey	souтн Т-12543		west T-13382

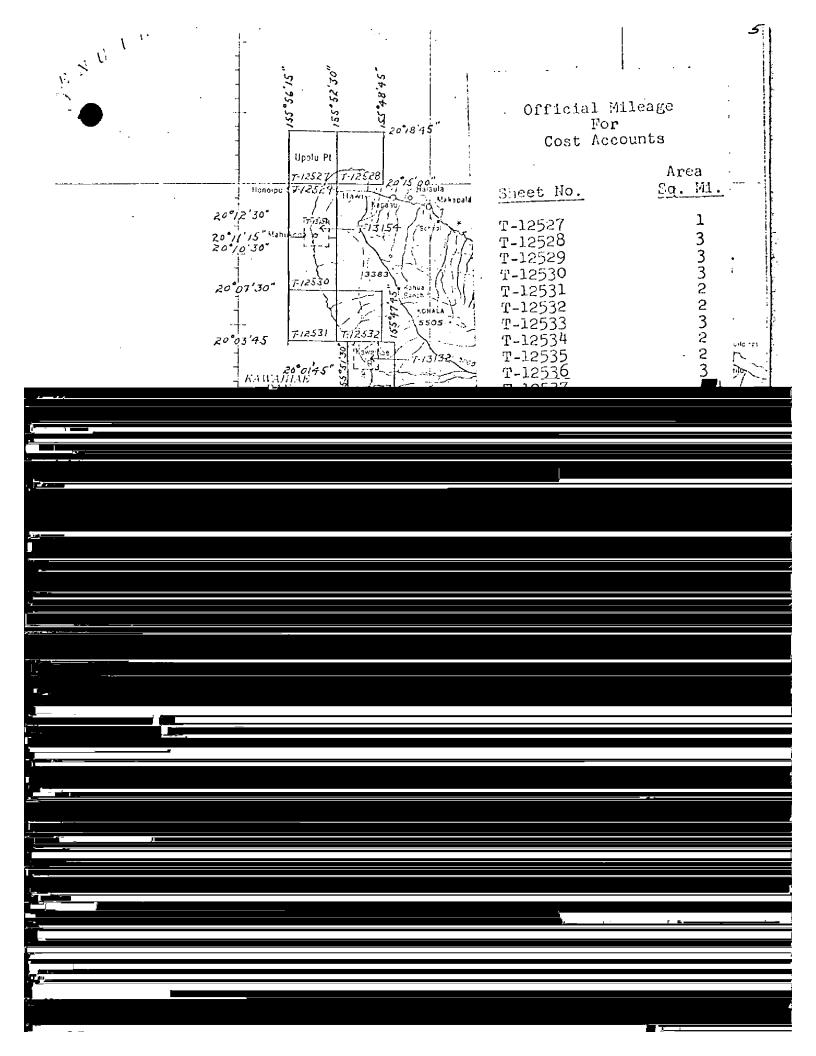
REMARKS
This 1:5,000 scale inset map is contained within the limits of map T-12541 (1:10,000 scale)

NOAA FORM 76_36 (3-72)	c	T-12542 HISTORY OF FIELD		U.S. DEPARTM ANIC AND ATMOSPHERI NATION	ENT OF COMM C ADMINISTR AL OCEAN SU	ATION
I. 💢 FIELD INSP	ECTION OPER	RATION FIEL	D EDIT OPERATION			
	091	ERATION		NAME	DATE	
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			R. Newsom E. Cline		Jun/Jul Jun/Jul	
1 400170NTAL (CONTROL	RECOVERED BY	E. Cline		Jun/Jul	
2. HORIZONTAL C	CONTROL	ESTABLISHED BY	E. Cline		Jun/Jul	
		RECOVERED BY	none			100-
3. VERTICAL CO	NTROL	ESTABLISHED BY	none	-		
3. VENTIONE CO.		PRE-MARKED OR IDENTIFIED BY	none			
			none			
4. LANDMARKS A		ECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY	none		<u> </u>	
AIDS TO NAVIG	SATION	IDENTIFIED BY	E. Cline		Jun/Jul	1964
		TYPE OF INVESTIGATION			J 4117, G 411	
5. GEOGRAPHIC I INVESTIGATIO		COMPLETE SPECIFIC NAMES ONLY				
		MO INVESTIGATION				
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	E. Cline	<u></u> .	Jun/Jul	1964
7. BOUNDARIES A	ND LIMITS	SURVEYED OR IDENTIFIED BY	none		<u> </u>	
II. SOURCE DATA		·		UTOS ISSUES		
1. HORIZONTAL C	CONTROL IDE	NTIFIED	2. VERTICAL CO	NTROL IDENTIFIED		
			None	T		
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DE	SIGNATION	
63 (S) 8065*	KAILUA,	1887 (Direct and Sub Pt)				
	*Section	of ratio photo submitted	<u> </u>			
3. PHOTO NUMBE			<u>. </u>			
		51~8153 (Cronapaque Conta	acts)	•		
4. LANDMARKS A	ND AIDS TO N	AVIGATION IDENTIFIED				
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT	NAME	
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03 (3) 1314		Bighenouse				
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8. OTHER FIELD	RECORDS (Ske	tch books, etc. DO NOT list data submit	ted to the Geodesy D	livision)		

1 form 152 (CSI)

I. TI FIELD INSPECTION OPER	ATION TY FIFE	OPERATIONS D EDIT OPERATION	
			7
096	RATION	(NAME	DATE
1. CHIEF OF FIELD PARTY		(NOAA Ship RAINIER) G. Harden	Sep/Oct]
	RECOVERED BY	S. Hollinshead	Sep/Oct_
2. HORIZONTAL CONTROL	ESTABLISHED BY	none	
	PRE-MARKED OR IDENTIFIED BY	none	
	RECOVERED BY	1101116	
3. VERTICAL CONTROL	ESTABLISHED BY	none	
	PRE-MARKED OR IDENTIFIED BY	none	
	COVERED (Triangulation Stations) BY	*/	Oct 1972
4. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	S. Hollinshead	<u>bct 1972</u>
	TYPE OF INVESTIGATION	none	
£ CECCBARNO NAMES	COMPLETE		
5. GEOGRAPHIC NAMES INVESTIGATION	SPECIFIC NAMES ONLY	J	J
	NO INVESTIGATION		
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7. BOUNDARIES AND LIMITS	CLARIFICATION OF DETAILS BY	S Hollinshead	bct 1972
II. SOURCE DATA	SURVEYED OR IDENTIFIED BY	Inone	<u> </u>
1. HORIZONTAL CONTROL IDEN	ATIFIED	2. VERTICAL CONTROL IDENTIF	FIED
none		1	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER STAT	ION DESIGNATION
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3. PHOTO NUMBERS (Clarification	m of details)		
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U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NOAA FORM 76-36D (3-72)T-12542 RECORD OF SURVEY USE I. MANUSCRIPT COPIES COMPILATION STAGES DATE MANUSCRIPT FORWARDED DATA COMPILED DATE MARINE CHARTS HYDRO SUPPORT REMARKS Compilation complete Jan 1970 pending field edit Jan 1970 Class III manuscript Jan 1970 May 1972 field edit applied compilation complete May 1974 Class I Manuscript May 1974 Final Review Feb 1987 Final Map 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-12542

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 Kailua 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 ingrestion and serotriangulation. The 1.20 000 and 1.15 000 ccale color

T-12542

Field edit was conducted in conjunction with hydrographic survey H-9334 by NOAA Ship RAINIER personnel in September/October 1972.

Application of field edit was accomplished at the Atlantic Marine Center in May 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-12542

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 Plot Report PH-6401 Hawaii Island, Hawaii

Feb.4, 1969

21. Area Covered

The area covered by this report is along the northwest coast of Hawaii Island. T-sheets in this area are numbered 12534 thru 12541, 12543, and 12545 at 1:10,000 scale. Tsheets 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.

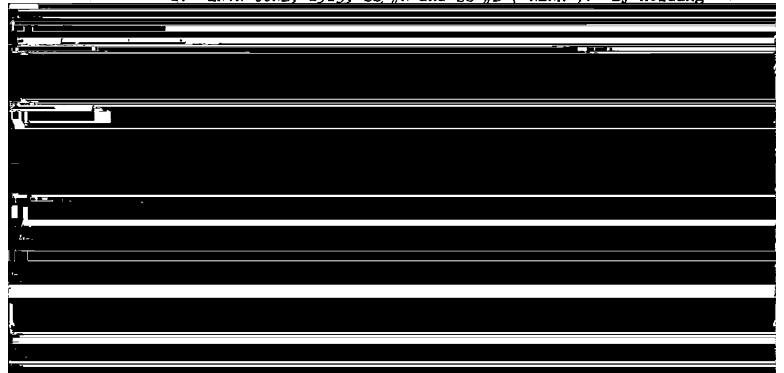
22. Method

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 reident1fication 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.

LAVA CONE, 1913, SS #A and SS #B ("NEAR"). By holding



24. Supplemental Data

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

25. Photography

Photography was not adequate to provide coverage of the 1:5,000 scale sheets with the exception of T-12542. This inadequate coverage was caused by a change in the limits of the 1:5,000 areas after bridging was nearing completion. Photography was adequate in regard to definition and overlap.

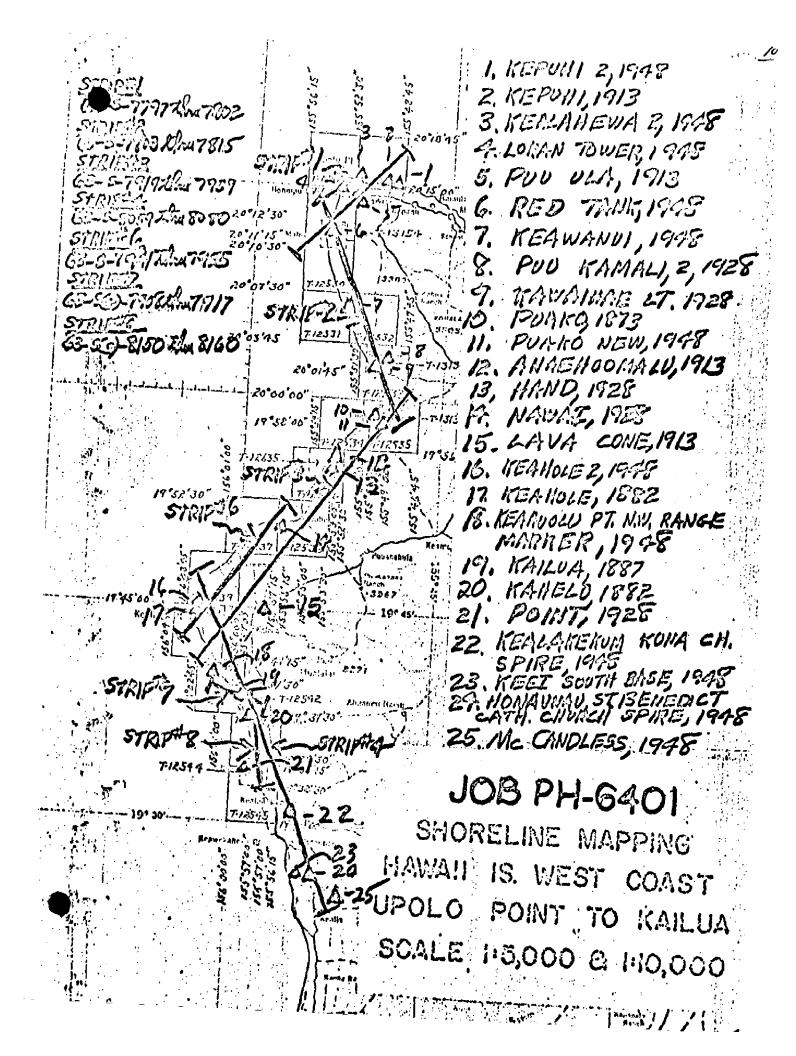
Submitted by,

John D. Perrow, Jr.

Approved by,

Henry P. Eichert

Chief teratminensulation Santien



NOAA FOR -41 (6-75)		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD	1	U.S. DEP	U.S. DEPARTMENT C. COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO.	JOB NO.		GEODETIC DATUM		ORIGINATING ACTIVITY	
T-12542	PH-6401		Old Hawaiian	Coastal	tal Mapping	Unit, AMC
	SOURCE OF	AEROTRI-	i⊢	GEOGRAPHIC POSITION		
STATION NAME	INFORMATION (Index)	POINT	SIATE HAWALL	φ LATITUDE λ LONGITUDE	3C	REMARKS
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SPIRE, 1913	G.P. pg 33	,	je.	λ 155 59 47.	47.601	
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			y=	γ		
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COMPUTED BY L. Graves/A. C. Rauck, J	.] Y	DATE 9/69.8/69	COMPUTATION CHECKED BY A. C. Raijck/I. Graves	-	V 0	DATE 9/11/69
		•	LISTING CHECKED BY		O A	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		VQ.	DATE
		SUPERSEDES N	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.		

COMPILATION REPORT T-12542

Delineation was by instrument methods using the Wild B-8 stereoplotter and 1:15,000 scale color photographs. The 1:30,000 scale panchromatic field inspection photographs were used during compilation; however, several of the field identified rocks were not discernible when viewing the 1:15,000 scale color compilation photographs. Rocks that were not clearly identifiable were not compiled. Compilation ratio photographs were processed for hydro support and were used graphically to assist in delineation of minor details. Photo coverage and quality were adequate.

T-12542

40 - HORIZONTAL AND VERTICAL ACCURACY

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

46 - COMPARISON WITH EXISTING MAPS

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

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with USC&GS Charts: 4164, scale 1:5,000, 2nd edition, dated June 20, 1966, 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

Jeny J. Harloch

for L. Graves
Cartographer
October 1969

Approved

for Albert C. Rauck, Jr.

Jeny L. Harwick,

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

· T-12542

Field edit for this inset map was performed in conjunction with hydrographic survey H-9334 in September/October 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 and the map was advanced to Class I status.

GEOGRAPHIC NAMES FINAL NAME SHEET

PH-6401 (Hawaii)

T-12542

Kahului Bay

Kailua Bay

Kailua Kona

Kalae Paakai

Kukailimoku Point

Laniakea

Oneo Bay

Pacific Ocean

Pohakuloa Rock

Waiaha

Approved by:

A. Joseph Wraight Chief Geographer

Prepared by:

Frank W. Prckett Cartographic Technician

FIELD EDIT REPORT

OPR-419, 1972

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T-12539 through T-12550 7-13382 7-11796 Kona Coast, Hawaii

NOAA Ship RAINIER

\$

CAPT G.E. HARADEN Commanding

INTRODUCTION - METHODS

Field edit was accomplished between lh 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 mile: 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).

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 (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. Keehuolu Point Northeast, Keehuolu Point Southeast, and Keehuolu 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 Keehuolu Point Northwest Range Marker are not visible from seaward and should be deleted. Further information is provided on NOAA Form 76-40 (see appendix).

CT-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-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 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 -

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

Respectfully submitted,

Steven J. Hollinshead

LTJG, NOAA

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	63-8-7943 63-8-8063*	·
)	T-12541 Kailua Bay	63-s-8063* 63-s-8094	
	T-13382 Honokohau Bay	69 - E - 9255 69 - E-9254	
	Æ=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-125l/4 Keauhou Bay	63-s(c)-8158 63-s(c)-8159 63-s(c)-8160	

*MOTE Phata 62. C. Sm62-ward-war m Chaate m 12760

REVIEW REPORT T-12542

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 Quadrangles: Keahole Point, Hawaii, dated 1959, scale 1:24,000. Kailua, 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 charts: . 19331, scale 1:5,000, 5th edition, July 9, 1977; 19327, scale 1:80,000, 8th edition, September 5, 1981.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by

Geny L. Hancock Jerry L. Hancock Final Reviewer

Approved for forwarding

Billy H. Barnes

Chief, Photogrammetric Section, AMC

Chief, Photogrammetric Production Sec.

Chief, Photogrammetry Branch

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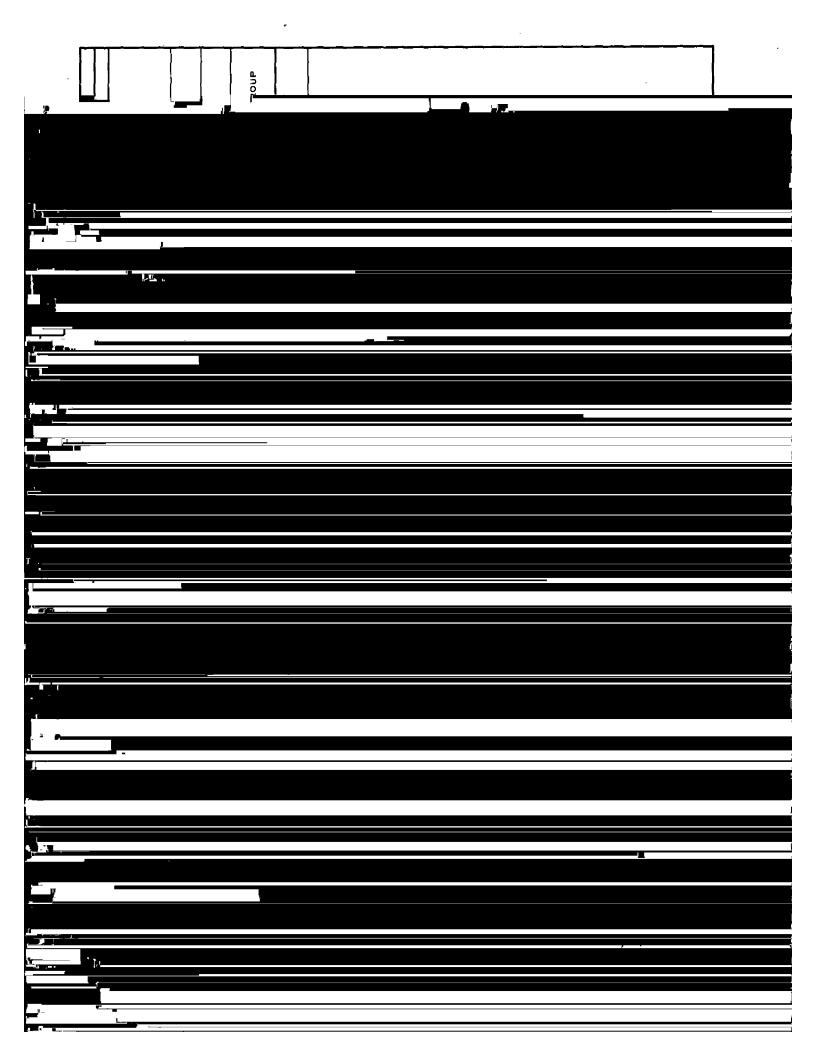
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*FIELD POSITIONS are determined by field obser-vations based entirely upon ground survey methods.	ned by field obser- ground survey methods.	by photogrammetric methods	·spo

NOAA FORM 75-40 (8-74)

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

☆ U.S.GPO:1975-0-665-080/1155



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NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. PH-6402 T-12542

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 Revie

CHART	DATE	CARTOGRAPHER	REMARKS
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