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-12535	1
Job No.	
PH-6401	
Map Classification	
FINAL, FIELD EDITED MAP	
Type of Survey	
SHORELINE	
LOCALITY	1
State	
IIAWAH	
General Locality HAWAII ISLAND, W	EST COAST
UPOLO POINT TO KAILUA	
Locality	
KANEKANAKA POINT	
19 63 TO 19	60
17 00 17	09
	
REGISTERED IN AF	RCHIVES
DATE	

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TR. 12535
13572) WATTONAL OCEANIC AND ATMOSPHERIC ADMIN.	☑ ORIGINAL	·
	-	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final
	REVISED	JOB PH
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Coastal Mapping Unit, Atlantic Marine Center	TYPE OF SURVEY	JOB PH
Norfolk, Virginia OFFICER.IN-CHARGE	ORIGINAL	MAP CLASS
O' F JOE WIND PROPERTY OF THE	RESURVEY	SURVEY DATES:
Richard Houlder	REVISED	19ТО 19
I. INSTRUCTIONS DATED	<u> </u>	
1, OFFICE	2.	FIELD
Compilation September 12, 1968 Supplement No. 1 February 11, 1969	Control/Field Insp	pection April 29,196
Compilation March 11, 1969 Supplement No. 2 December 11, 1969		
	·	
II. DATUMS		
1. HORIZONTAL: 1927 NORTH AMERICAN	OTHER (Specify)	
	Old Hawaiian OTHER (Specify)	n Datum
EM MEAN HIGH-WATER MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	ovinzi (opesity)	
3. MAP PROJECTION	4.	GRID(S)
	STATE	ZONE
Polyconic	Hawaii	1
1:10,000	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS	<u></u>	<u> </u>
OPERATIONS	NAME	DATE
I. 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 A. Shands	Feb 1969 Feb 1969
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY CHECKED BY	C. Bishop	Mar 1969
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.	
SCALE: 1:10,000 CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	A. Shands	Feb 1969
CHECKED BY	C. Bishop	Mar 1969
метнор: Smooth drafted contours by	N.A.	
CHECKED BY HYDRO SUPPORT DATA BY	A. Shands	Feb 1969
scale: 1:10,000	C. Bishop	Mar 1969
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	C. Bishop	Mar 1969
6. APPLICATION OF FIELD EDIT DATA	A. Shands/R. White	
CHECKED BY	C. Parker	Feb 1972
7. COMPILATION SECTION REVIEW BY	C. Parker J. Hancock	Feb.1972 Nov 1986
8. FINAL REVIEW BY 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Hancock	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	P. Dempsey	May 1987
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	E. L. DAUGHERT	
NOAA FORM 76-36 A SUPERSEDES FORM C& GS 181 SERIES		0. 1972-769382/582 REG.#6

[♥] U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B (3-72)				m 105	N	IATIONAL OCE		ATMOSF	HERIC A	
			COM	T-125: PILATIO		RCES		N A	TIONAL	OCEAN SURV
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1. COMPILATION PHO	DIOGRAPHI	· · · · · · · · · · · · · · · · · · ·		TVPF	S OF PH	IOTOGRAPHY		_	···	
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WEMBUKS *Bride	lind buo	togra <u>r</u>	ons, **Cor	mpilatio	on pho	otographs.				
3. SOURCE OF MEAN			water lin			ied.				
4. CONTEMPORARY		PHIC SUI						nmetric		
SURVEY NUMBER	Survey		SURVEY COF		aurve	Y NUMBER	DATE(S)		SUKVE	Y COPY USED
н-9018	1969/19	970	Register	red	<u> </u>					
5. FINAL JUNCTION	5	1 = 2 ==			Leave-					
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REMARKS The north					dupli			ap T-	·	

(3-72)	5C	HIS	T-12535 STORY OF FIELD	NATIONAL OCEA		MOSPHERIC	T OF COMMERCI ADMINISTRATION OCEAN SURVE
1. KX FIELD INSI	PECTION OPER	ATION	FIEL	D EDIT OPERATION			
	OPE	RATION		<u> </u>	IAME		DATE
1. CHIEF OF FIE	I D PARTY				<u> </u>		
1, 0.112, 0. 112				R. Newsom			Jun 1964
2. HORIZONTAL	CONTROL		RECOVERED BY	E. Cline			Jun 1964
Z, HORIZONTAL	CONTROL	PDC.MARKET	ESTABLISHED BY OR IDENTIFIED BY	E. Cline E. Cline			<u>Jun 1964</u> Jun 1964
		PRE-MARKEL	RECOVERED BY	None			Jun 1904
3. VERTICAL CO	NTROL		ESTABLISHED BY	None			
3. VENTICAL CO	NI NOC	DRE-MARKET	OR IDENTIFIED BY	>7	_		
				None			
4. LANDMARKS A		•	egulation Stations) BY	None			
AIDS TO NAVI		LOCATE	D (Field Methods) BY	None			
		TYPE OF I	IDENTIFIED BY	None			
5. GEOGRAPHIC	NAMF¢	COMPL					
INVESTIGATIO	· ·		FIC NAMES ONLY				
			ESTIGATION			1	
6. PHOTO INSPE	CTION		ION OF DETAILS BY	E. Cline			Jun 1964
7. BOUNDARIES			OR IDENTIFIED BY	None			0411 1304
II. SOURCE DATA			<u> </u>				
1. HORIZONTAL		TIFIED		2. VERTICAL CON	TROL IDEN	TIFIED	
				None			
PHOTO NUMBER		STATION NA	ME .	PHOTO NUMBER	57	ATION DESIG	NATION
63(s)7921*	PUAKO, NEW	, 1948 (St	ıb pts. 1 & 2)		,		
63 (S) 7 921*		73 (Direct	e) Noto submitte	ā			
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	·	,	tte Contacts)				
4. LANDMARKS A							
		TOR TOR TOE					
No	ne	 					
PHOTO NUMBER	ļ	OBJECT NA	<u>M</u> E	PHOTO NUMBER		OBJECT NA	ME
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5. GEOGRAPHIC		REPORT	XXNONE	6. BOUNDARY AND	D LIMITS:	REPORT	XXNONE
7. SUPPLEMENT	AL MAPS AND P	LANS					
**							
No:		- Lank- Di	D NOT the Committee				
O. OTHER FIELD	NECORDS (Sket	ca books, etc. D	U NU ⊫iist data submi	tted to the Geodesy Di	vision)		
1 ,	Zowm 750 4	3GT)					
7 1	Form 152 ((2T)					

NOAA FORM 76_36C (3-72)	T-12535 History of Field	NATIONAL OCEANIC AND ATMO	PARTMENT OF COMMERCE SPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY				
1. TIELD INSPECTION OPERATION XXFIELD EDIT OPERATION (Partial)							
	OPERATION	NAME	DATE				
1 CURE OF SIELD BAD		(USC&GS Ship McARTHUR	₹)				
1. CHIEF OF FIELD PART	<u> </u>	R. Newsom, CDR	Apr 1969				
	RECOVERED BY	None					
2. HORIZONTAL CONTRO	· -	None					
	PRE-MARKED OR IDENTIFIED BY	None	 				
3. VERTICAL CONTROL	RECOVERED BY	None	-				
3. VERTICAL CONTROL	ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None					
		None					
4. LANDMARKS AND	RECOVERED (Triangulation Stations) BY	None None	- 				
AIDS TO NAVIGATION	LOCATED (Field Methods) BY	None	- -				
	TYPE OF INVESTIGATION	Mone	-				
5. GEOGRAPHIC NAMES	COMPLETE						
INVESTIGATION	SPECIFIC NAMES ONLY						
·	NO INVESTIGATION						
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	R. Newsom	Apr 1969				
7. BOUNDARIES AND LIMI	TS SURVEYED OR IDENTIFIED BY	None					
II. SOURCE DATA							
1. HORIZONTAL CONTROL	LIDENTIFIED	2. VERTICAL CONTROL IDENTIF	FIED ,				
None		None					
PHOTO NUMBER	STATION NAME	PHOTO NUMBER STAT	ION DESIGNATION				
3. PHOTO NUMBERS (Clat.	ŕ						
	atte Ratio, 1:10,000 scale) To NAVIGATION IDENTIFIED		·				
None	TO MINISTRIBUTE DENTINA						
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER C	BJECT NAME				
5. GEOGRAPHIC NAMES:	REPORT MYNONE	6. BOUNDARY AND LIMITS:	REPORT XX NONE				
7. SUPPLEMENTAL MAPS	AND PLANS						
None 8. OTHER FIFLD RECORD	S (Sketch books, etc. DO NOT list data submit	ted to the Geodony District					
1 Field Edit	Paper Print	ted to the decidesy Division)					

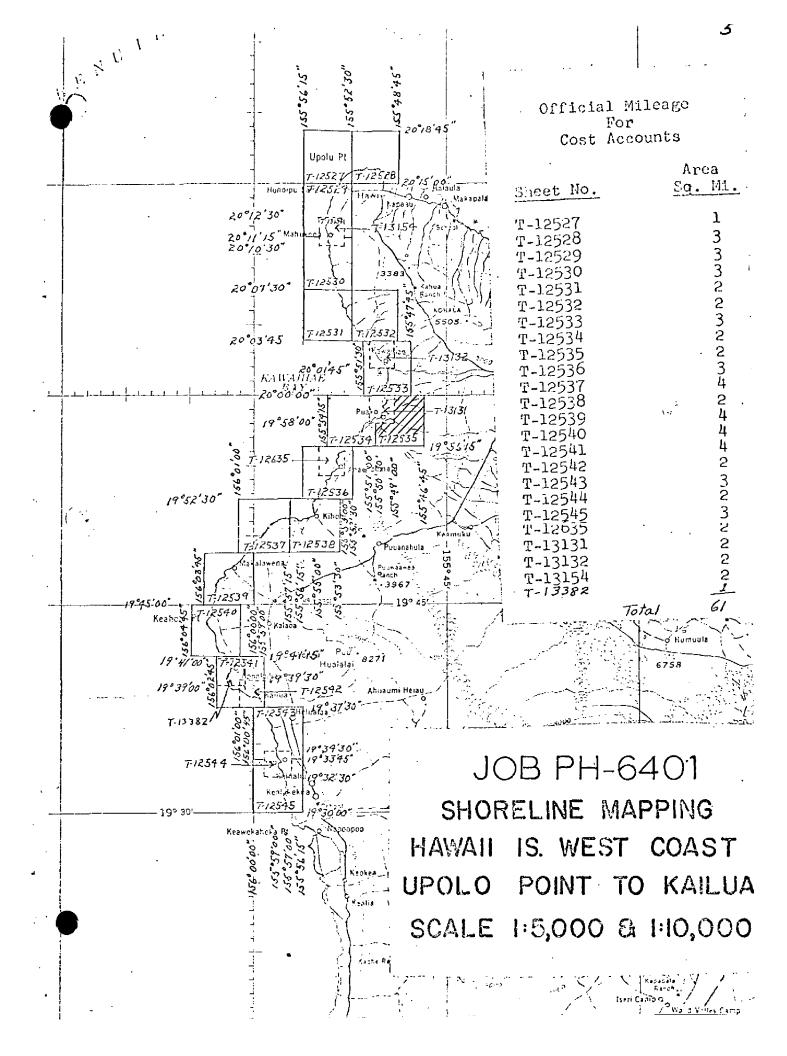
NOAA FORM 76-36C (3-72)	T-1253	NATIONAL OCEANIC AND ATMOSPHEI NATIO	MENT OF COMMER RIC ADMINISTRATI NAL OCEAN SURV
I. TIELD INSPECTION	DN OPERATION XX FIEL	D EDIT OPERATION	
	OPERATION	NAME	DATE
1. CHIEF OF FIELD PA		(USC&GS Ship PATHFINDER) E. Taylor, CAPT	Feb 1970
	RECOVERED BY	None	
2. HORIZONTAL CONT	ROL ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
	RECOVERED BY	None	
. VERTICAL CONTROL		None	
	PRE-MARKED OR IDENTIFIED BY	None	
L LANDMARKS AND	RECOVERED (Triangulation Stations) BY	None	
LANDMARKS AND AIDS TO NAVIGATION		None	
	TYPE OF INVESTIGATION	None	
i, GEOGRAPHIC NAMES INVESTIGATION	SPECIFIC NAMES ONLY		
	NO INVESTIGATION		
. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	E. Taylor	7-b 7070
BOUNDARIES AND LI	,	None	<u>Feb 1970</u>
SOURCE DATA	30112125 GK 1521111125 GY	None	
. HORIZONTAL CONTR None	ROL (DENTIF)ED	2. VERTICAL CONTROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER STATION D	ESIGN A TION
3. PHOTO NUMBERS (C.	lerification of details)		<u></u>
63s(C)7779,77	/80 (Cronapaque Ratios, 1:10,0	000 scale)	
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER OBJEC	TNAME
5. GEOGRAPHIC NAMES 7. Supplemental mai		6. BOUNDARY AND LIMITS: REP	ORT NONE
None ·			
OTHER FIELD RECO	RDS (Sketch books, etc. DO NOT list data submi	tted to the Geodesy Division)	
l Field Edit l Field Edit	Paper Print (same copy used f Report	or 1969 edit)	

NOAA FORM 76-36D (3-72)

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

T-12535

<u> </u>		KECI	ORD OF SURVE	. Y U2E	<u>-</u>	
I. MANUS	CRIPT COPIES					
		OMPILATION STAG	ES		DATE MANUSCRI	IPT FORWARDED
<u> </u>	DATA COMPILED	DATE		EMARKS	MARINE CHARTS	HYDRO SUPPORT
_	ation complete	1	Class III I			1
pending	g field edit	Mar. 1969	Inspection		Mar. 1969	Mar. 1969
Partial edit ap		1060		٠ ـ		Jul. 1971
earrap	pried	Aug. 1969	Class III N	Manuscript		Oct. 1971
Field ϵ	edit application		J			J
complet		Feb. 1972	Class T.Mar	nuscript	Mar. 1977	Mar. 1973
Final R	Review	Nov. 1986	Final Map		mar 1987	mar 1987
II LAND	MARKS AND AIDS TO NAVIGA	<u> </u>				<u> </u>
	ORTS TO MARINE CHART D		L DATA BRANCH			
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	REPORT TO MARINE CHART					
	REPORT TO AERONAUTICA RAL RECORDS CENTER DAT		N, AERONAUTICAL	_ DATA SECTION.	DATE FORWARDED.	
1110	MAE REGULDS GETTE SELL	10				
_	BRIDGING PHOTOGRAPHS;			RT; XX COMPUT		
	CONTROL STATION IDENT	IFICATION CARDS	s; FORM NOS	S 567 SUBMITTED	BY FIELD PARTIES.	
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4. 🗀	DATA TO FEDERAL RECO	RDS GENTER. DA	TE FORWARDED:			
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	SURVEY NUMBER	JOB NUMBE		T	TYPE OF SURVEY	
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	SURVEY NUMBER	JOB NUMBE	ER		TYPE OF SURVEY	
FOURTH	DATE OF PHOTOGRAPH	(4) PH		<u> </u>	REVISED RES	ŰRVÉY
EDITION	DATE OF ENGINEER	DATEOFF	FIELD EDIT] 🗀 🗀	MAP CLASS	FINAL
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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-12535

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. 19 58.5 to Lat. 20 00.0. Inset map T-13131 duplicates all of the coastal area at 1:5,000 scale.

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 March 1969. 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.

Field edit for a northern portion of this map was conducted during hydrographic survey H-9018 by USC&GS Ship McARTHUR personnel in April 1969. The remaining map area, south of Lat. 19°58.8', was edited in February 1970 as a continuation of H-9018 by USC&GS Ship PATHFINDER personnel.

Application of field edit was accomplished in two phases at the Atlantic Marine Center and completed in February 1972. A general comparison was made with the common 1:5,000 scale inset map, T-13131, which was being compiled from 1969 photography at the same time (February 1972) this map was advanced to Class I. Shoreline detail between the two sheets did not reveal any significant changes. A copy of this Class I manuscript was submitted to Marine Charts and the Hydrographic Surveys Branch.

Final review was performed at the Atlantic Marine Center in November 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-12535

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. 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 substitute stations and placed LAVA CONE, 1913 80 ft. north of survey mark "NEAR" and on the high point of the immediate area. This bares out the field recovery note for station LAVA CONE 1913 that the survey mark "NEAR" and intersection station LAVA CONE, 1913 are not one and the same. Geodesy Division has been notified of our findings and the bridging information added to their files.
- 2. KEEI SOUTH BASE, 1948 SS #1 and SS #2 could not be held in Strip #4 by 11' and 16' respectively. It is believed these errors are due to bad identification, since seven other stations were held in the adjustment. This station falls in Strip #4 but is outside of the PH-6401 area of compilation.

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.

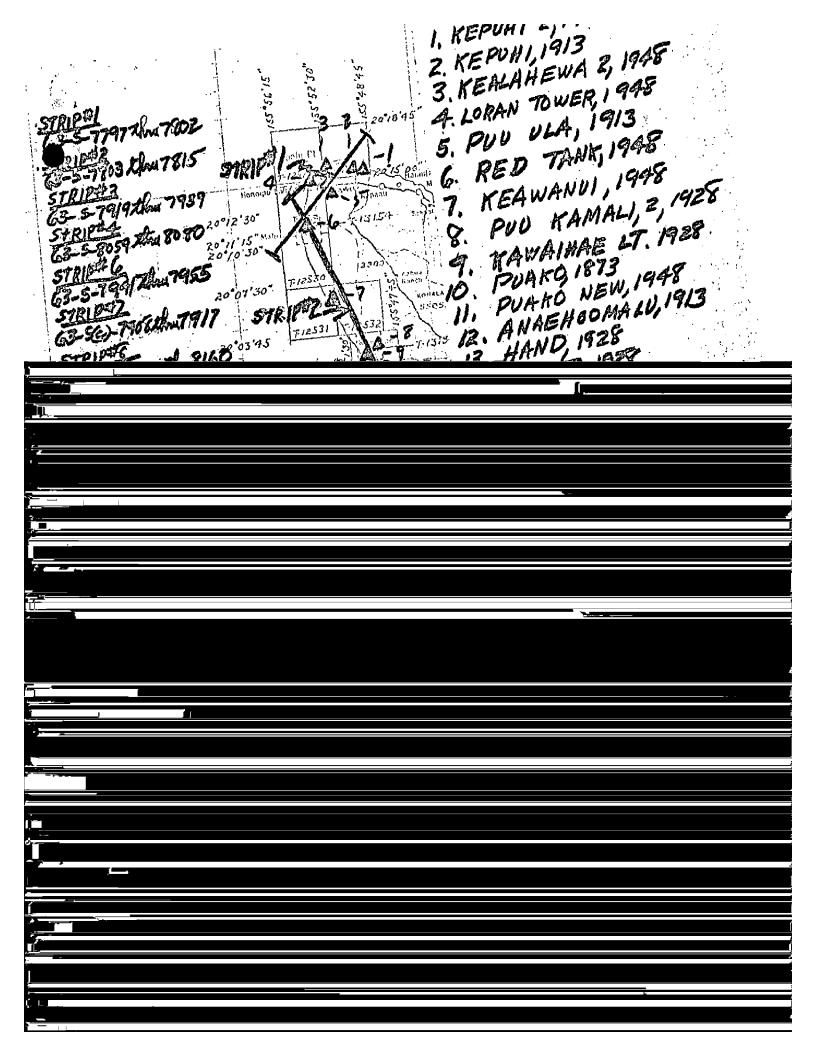
Submitted by,

John D. Perrow, Jr

Approved by,

Henry P. Eichert

Chief, Aerotriangulation Section



NOAA FORM 41 (6-75)				NATIONAL OCEANIC AND	U.S. DEPARTMENT O DAMBERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD	;	
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	IVITY Coastal Mapping
T-12535	PH-6401	1	Old, Hawaiian Datum	Unit, AMC,	
MAN NO HATA	SOURCE OF	AEROTRI-	COORDINATES IN FEET STATE Hawail		ı
		POSNT NUMBER	ZONE 1		
PUAKO (H.G.S.)	١		# *	Φ 19 58 45 509	`
(U.S.G.S.), 1873	G.P. pg. 13		y=	λ 155 49 59.231	
	`		=X	\$\psi\$ 19 58 36.320 \(\)	
PUAKO NEW, 1948	G.P. pg. 13		y=	λ 155 49 32.753~	
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COMPUTED BY A. C. Rauck, Jr.		DATE 2/14/69	COMPUTATION CHECKED BY C. Blood		DATE 2/14/69
LISTED BY		DATE	LISTING CHECKED BY		DATE
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH 1S OBSOLETE.	H 1S OBSOLETE.	

COMPILATION REPORT T-12535

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, several 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 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 landmarks or navigational aids within the limits of this map.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

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

T-12535

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, Puu Hinai, Hawaii, dated 1956, scale 1:24,000.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with USC&GS Charts 4167, scale 1:10,000, 3rd edition, dated Jun. 26, 1967 4140, scale 1:80,000, 3rd edition, dated Jan. 24, 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by

Geny S. Haroch

A. Shands

Cartographic Technician

March 1969

Approved

Albert C. Rauck, Jr.

Geny L. Howerh

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

T-12535

Field edit was performed in two phases in conjunction with hydrographic survey H-9018. Field edit north of Lat. 19°58.8' was conducted in April 1969 and the remaining area was edited in February 1970. Remarks from both field edits were included on the same paper 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-12535

Auwaiakeakua Gulch---Not compiled gast

Hapuna Bay

Hapuna Beach Park

Kamakoa Gulch-----Not compiled

Kanekanaka Point

Kaunaoa Point

Kawaihae Bay

Ohai Point

Pacific Ocean

Puako Bay

Waialea Bay

Approved by:

A. Jøseph Wratght Chief Geographer

Prepared,

Frank W. Pick tt Cartographic Technician

Field Edit Report to Accompany T12535

April 1969

USC&GSS McARTHUR

Ronald L. Newsom CDR, USESSA Commanding Officer

51 METHODS

Part of Manuscript T 12535 was field edited by personnel aboard the USC&GSS McARTHUR in conjunction with hydrography on boatsheet AR10-7-68, H-9018. Shore line was verified visually from Launch AR-2 due to extensive foul areas. Field edit information was shown on photo 63-S-7920 and on the field edit ozalid in violet ink.

52 ADEQUACY OF COMPILATION

Manuscript 7 12535 was adequate for hydrography but the accompanying photosewere not adequate for locating photo-hydro signals.

54 RECOMMENDATIONS

Photography for this area should be taken in the afternoon when the haze is lower and the coast is lighted better. Infra Red photography might give a better contrast between the dark sea and the black lava rock. Also, the shoreline should be more towards the center of the Photograph where resolution is higher and distortion less.

The manuscript T 12535 should be reissued to the next Ship working in this area to complete the field edit.

17

FIEID EDIT REPORT

CHART TOPOGRAPHY

West Coast Of Hawaii, Hawaii

Map Manuscripts, T-12534 T-12535

745 1-12/11

T-12536, T-12537 & T-12538

February 1970

FIELD EDIT REPORT - OPR 419

Chart Topography
Hawaii, West Coast
Map Manuscripts, T-12534 T-12535, T-12536,
T-12537, T-12538

This report covers the west shore of the island of Hawaii from Kaunaca Point south to Kau Bay. C_{ζ}

The entire shoreline was inspected using a small boat and/or walking. The field edit copies (discrepancy prints) of the map manuscripts were used as the index for the field corrections and the photographs containing the bulk of the corrections were cross-referenced to the field edit copies.

Adequacy of Compilation:

The extent and accuracy of the maps appear to be complete.

Methods:

The shoreline was inspected and the correction have been indicated on the field edit photography in red ink. Annotations on the field edit sheet were done with a purple pencil and in some cases with a ball point pen. Deletions of features on both the field edit sheets and the photography are in green ink.

Mean high water references were made to identifiable alongshore objects. In general the mean high water compilation was very good. The characteristics of the shore are generally a lava composition with a few sand beaches. The foreshore and adjacent offshore underwater areas are quite shallow. Coral heads are forming in areas that have a water depth of three feet or more.

There are no communities of any size. There are several residents along the shore south of Ohai Point to an area about 1/2 mile south of Kapuniau Point.

Rocks and shoals were investigated. The elevations of these features in relationship to the stage of tide at the time of the investigation were recorded on the field edit photography and/or the field edit sheets where required.

A Geographic Names investigation was not made, however one discrepancy was brought to the attention of the Field Editor by a local resident of over 50 years. The spalling of the small bay about 1/4 mile north of Ohai Point is spelled Wailea Bay and not Waialea Bay.

Pertinent information partaining to each individual discrepancy sheet will be listed under that specific sheet.

Sheet T-12534

Considerable time was spent looking for the submerged rocks from office interpretation but those west of the foul line were not found. Methods included fixes from identifiable objects from shore and investigation from a small boat.

Several areas have been mapped as coral however no coral was found close to the shoreline. Coral heads and coral are found in areas that are constantly under water.

Sheet (T=12535)

The first half of this sheet was done by personnel of the ship MCARTHUR in 1969.

A new boat ramp was constructed since the photography. A sketch was drawn on the back of photo 63 S 7779. Three tanks that are close together were picked as a landmark, See photo 63 S 7780. A form 567 will be submitted.

Sheet T-12536

See the comments on the Field Edit Ozalid.

Sheet T-12537

See the comments on the Field Edit Ozalid.

A new development has been constructed on Mahewelu Point.

Several of the buildings will be of landmark value. The plans are being submitted with this report.

Sheet T-12538

See the comments on the Field Edit Ozalid.

Respectfully submitted,

Lyle & Progress

Approved:

Tyle L. Riggers Surveying Tech.

E. A. Taylor, CAPT, USESSA Cond. Officer "PATHFINDER"

March 25, 1970

Supplement To
FIEID EDIT REPORT
CHART TOPCGRAPHY
West Coast of Hawaii, Hawaii
Map Manuscripts, T-12534, T-12535
T-12536, T-12537, and T-12538

Three additional Geographic Names discrepancies have been located on the following T-sheets.

T-12534 The discrepancy on this sheet concerns Makaiwa Boy located at Let. 19.57 and Long. 155.53.5 just west of LAHUIPUAA. On C&GS chart 4140 Jan. 24, 1966 the location of the name appears to refer to a different part of the coastline than on this T-sheet.

T-12536 A bay located at Lat. 19°55.8' Long. 155°53.5' has a spelling discrepancy. This T-sheet gives the spelling as Waiulua Eay and chart 4140 gives the spelling as Waizlua Eay.

T-12537 In-the general area of Kakapa Pay at Lat. 19'49' Long. 156'00.3' there exists a major discrepancy in the names of two prominent points of land. This T-sheet shows the point which forms the north shore of Kakapa Bay as Kikaua Pt. and the point forming the south shore as Papiha Pt. The chart 4140 gives the name of Papiha Pt. to the northern point and does not name the point to the south.

A Geographic Names investigation was not-made on any of these discrepancies due to the lack of time at the end of the project when these discrepancies were found.

Respectfully submitted,

Richard D. Olso

Approved:

Richard D. Olson ENS, USESSA

Photogrammetric Officer

E. A. Taylor, CAPT, USESSA Comd. Officer "PATHFINDER"

REVIEW REPORT T-12535

SHORELINE

61 - GENERAL STATEMENT

Final review for this final field edited map was accomplished at the Atlantic Marine Center in November 1986. For a schedule of the office and field operations, refer to the Summary included with this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S quadrangle Puu Hinai, Hawaii, dated 1956, scale 1:24,000.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A portion of hydrographic survey H-9018 and H-9234 are common to this final shoreline map. A comparison was made with a registered copy of H-9018, AR-10-7-68/PF-10-1-70, 1:10,000 scale, field surveyed 1969/1970 and H-9234, FA-5-1-71, 1:5,000 scale, field surveyed 1971. No significant discrepancies were noted.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS charts 19330, scale 1:10,000, 7th edition, Oct. 15, 1983 19327, scale 1:80,000, 8th edition, Sept. 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.

T-12535

Submitted by

Jerry L. Hancock Final Reviewer

Approved for forwarding

one of anna

Billy H. Barnes Chief, Photogrammetric Section, AMC

Approved

Chief, Photogrammetric Production Sec.

Chief, Photogrammetry Branch

FORM C&GS-8352

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-12535, PH-6401

INSTRUCTIONS

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