NOAA FORM 76-35 (3-76)
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY
DESCRIPTIVE REPORT
Map No. Edition No.
T-11796 1
Job No.
PH-6402 Map Classification
FINAL FIELD EDITED MAP
Type of Survey
SHORELINE
LOCALITY
State HAWAII
General Locality HAWAII ISLAND, WEST COAST KAILUA TO SOUTH CAPE
Locality KEALAKEKUA BAY
19 63 TO 19 72
REGISTRY IN ARCHIVES
\$ 1 W 2

*U.S. COVERNMENT PRINTING OFFICE:1976-669-248

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY XX-T-117	96
	XX ORIGINAL	MAP EDITION NO.	(1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS FINAL	
	REVISED	јов Рн-<u>.6402</u>	
PHOTOGRAMMETRIC OFFICE	LAST PRECEE	ING MAP EDITION	
Coastal Mapping Div.	TYPE OF SURVEY	JOB PH	
Atlantic Marine Center, Norfolk, VA	D ORIGINAL	MAP CLASS	
OFFICER-IN-CHARGE	☐ RESURVEY	SURVEY DATES:	
D. Matauahi aa	-REVISED	19TO 19	
R. Matsushige			
1. INSTRUCTIONS DATED 1. OFFICE	2	FIELD	
I OFFICE		FIELD	
Compilation Oct. 28, 1969	Control/ Field Ir	spection May 8,	1964
Amendment 1 Jan. 3, 1973			
Memo Sept. 1, 1978	}		
			:
	,		
		·	
II. DATUMS	OTHER (Specify)		
1. HORIZONTAL: 1927 NORTH AMERICAN	Old Hawaiian		
	OTHER (Specify)		
X MEAN HIGH-WATER MEAN LOW-WATER			
2. VERTICAL: MEAN LOWER LOW-WATER			
MEAN SEA LEVEL			
3. MAP PROJECTION	4.	GRID(S)	
Polyconic	STATE	ZONE	
	Hawaii	1	
5. SCALE	STATE	ZONE	
1:5,000			
OPERATIONS I, AEROTRIANGULATION BY	J. Perrów	June 1	
METHOD: Stereoplanigraph LANDMARKS AND AIDS BY		June 1	202
2. CONTROL AND BRIDGE POINTS PLOTTED BY	J. Perrow	June 1	969
метнор: Coradomat снескер ву	J. Perrow	June 1	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	A. Shands	Dec. 1	
COMPILATION CHECKED BY	R. Pate	Dec. 1	969
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.		
SCALE: 1:5,000 CHECKED BY	N.A.		
4. MANUSCRIPT DELINEATION PLANIMETRY BY	A, Shands	Dec. 1	
CHECKED BY	R. Pate	Mar, l	9/2 -
CONTOURS BY METHOD: Smooth drafted CHECKED BY	N.A.		
HYDRO SUPPORT DATA BY	N.A. A. Shands	Dec. 1	969
scale: 1:5,000 CHECKED BY	R. Pate	Mar. 1	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	R. Pate	Mar. h	
BY	R. Minton	Apr. 1	
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	G. Vanderhaven	Apr. 1	
7. COMPILATION SECTION REVIEW BY	G. Vanderhaven	Apr. 1	<u>974 </u>
8. FINAL REVIEW BY	J. Hancock		987
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Hancock	June 1	987
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	P. Dimpsey EL DAUGHERZ	Azg J	1987
11. MAP REGISTERED - COASTAL SURVEY SECTION BY NOAA FORM 76-38A SUPERSEDES FORM C& GS 181 SERIES	L ~ UAUGHERCO	7 DET 8	7

NOAA FORM 76–36B (3–72)				NATIONAL OCE		TMOSPHE	TMENT OF COMME
			T-11796 PILATION S	OURCES		NATI	ONAL OCEAN SUR
. COMPILATION P	HOTOGRAPHY	·					
E=152.71mm,				PHOTOGRAPHY		TIME	REFERENCE
TIDE STAGE REFER		tunt	(C) COLÓR		ZONE	<u> </u>	
PREDICTED TID			(P) PANCH		Hawa		X STAND
TIREFERENCE ST. TIDE CONTROLL			(I) INFRAF	RED	MERIDI 150t	-	DAYLIC
NUMBER AN	ID TYPE	DATE	TIME	SCALE			E OF TIDE
63S(C) 8136-8	3139**	Sept.1,1963	10:24	1;15,000	1,0	Ft, ab	ooye MLLW
69E(C) 9334-9		Mar.13,1969	09;53	1:15,000	1,1	Ft, ab	ove MLLW
63S(C) 8073-		Sept.1,1963	09:13	1;30,000	0,4	Ft, ab	ove MLLW
					Mean	ı Tide	Range = 1,4
REMARKS *Bridging pho	otographs	, **Compilation	n/hydro sı	apport photo	graphs ~		
2. SOURCE OF ME				·			<u> </u>
3. SOURCE OF MEA	N LOW-WATE	R OR MEAN LOWER LO	W-WATER LINE	:			<u> </u>
No mean lower	r low wat	er line was co	mpiled				
4. CONTEMPORARY	HYDROGRAI	PHIC SURVEYS (List of		rs that are sources I	for photogram		vey information.) URVEY COPY USE
н-9308 н-9346	1972	Registe			JA (E(3)		
FINAL JUNCTION	NS	EACT	- 122	11 7 11		wes-	
None		T-12547	20	T-12547		WEST	T-12546
REMARKS This inset m T-12547.	ap is con	tained within	portions o	of 1;10,000	scale ma	ips T-l	12546 and
AA FORM 76-35B 72)					· -		

NOAA FORM 76-36((3-72)	c	T-11796 HISTORY OF FIELI	,	AND ATMOSPHE	TMENT OF COMMERCE RIC ADMINISTRATION ONAL OCEAN SURVEY
I. X FIELD INSP	ECTION OPE		LD EDIT OPERATION		
		PERATION	NAM		DATE
1. CHIEF OF FIEL			R. Newsom		FebSept.
		RECOVEREO BY	Cline		Sept. 1964
2. HORIZONTAL C	CONTROL	ESTABLISHED BY	None		
		PRE-MARKED OR IDENTIFIED BY	None		
		RECOVERED BY	None		
3. VERTICAL CON	ITROL	ESTABLISHED BY	None		
	.,	PRE-MARKED OR IDENTIFIED BY	10110	·- <u></u>	
	R	ECOVERED (Triangulation Stations) 81	E. Cline		Sept. 1964
4. LANDMARKS AT		LOCATED (Field Methods) BY	None None		
AIDS TO NAVIG		IDENTIFIED BY	E. Cline		Sept. 1964
		TYPE OF INVESTIGATION			
5. GEOGRAPHIC N		COMPLETE BY	, [
INVESTIGATION	N	SPECIFIC NAMES ONLY			
		NO INVESTIGATION			
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	E. Cline		Aug/Sept 19
7. BOUNDARIES A	ND LIMITS	SURVEYED OR IDENTIFIED BY	N.A		
II. SOURCE DATA					
I. HORIZONTAL C	ONTROL IDE	ENTIFIED	2. VERTICAL CONTR	OL IDENTIFIED	
None			None		
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION	DESIGNATION
3. PHOTO NUMBE	RS (Clarificat	ion of details)	_ _		
		6 (1:30,000 scale matte	contacts)		
4. LANDMARKS A	ND AIDS TO I	NAVIGATION IDENTIFIED		 	
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJE	CT NAME
63(S)8085	Napoopoo Cooks Ma				
5. GEOGRAPHIC N	AMES:	REPORT NONE	6. BOUNDARY AND L	IMITS: RE	PORT ANONE
7. SUPPLEMENTA None	L MAPS AND	PLANS			
8. other field (etch books, etc. DO NO T list data subm DOTT	sitted to the Geodesy Divis	ion)	

NOAA FORM 76-36 (3-72)	c	Т-	11796		NIG AND ATMOSPI	RTMENT OF COMP HERIC ADMINISTR FIONAL OCEAN SI	IQI TAS
. Dere o been	TCTION ODER		 	OPERATIONS		···	
I. TIELD INSP		····	[X] FIELI	EDIT OPERATION			
	, <u>OPE</u>	RATION		(NOAA Ship	NAME RAINTER)	DATE	=
1. CHIEF OF FIEI	LD PARTY			G. Haraden	•	Sent	1972
		RI	ECOVERED BY	S. Hollings		Sept	
2. HORIZONTAL	CONTROL	ESI	ABLISHED BY	None			
		PRE-MARKED OR II	DENTIFIED BY	None	<u> </u>		
		R	ECOVERED BY	None			
3. VERTICAL COI	NTROL		TABLISHED BY	_None			
		PRE-MARKED OR II	DENTIFIED BY	None	<u> </u>		
		OVERED (Triangulati	on Stations) BY	S. Hollings	head	Sept.	1972
4. LANDMARKS AT AIDS TO NAVIG		LOCATED (Fig	ild Methods) BY.	_None			
		TYPE OF INVES	DENTIFIED BY	S. Hollings	head	Sept.	1972
		COMPLETE	HORHON				
GEOGRAPHIC I INVESTIGATION		SPECIFIC N.	BY				
		XX NO INVESTI		,			
6. PHOTO INSPEC	TION			S. Hollings	head	Sept.	1072
7. BOUNDARIES A		SURVEYED OR II		N.A.	iicau	Sept.	1312
II. SOURCE DATA		BONVETED ON I	<u> </u>	100221			
1. HORIZONTAL		TIFIED		2. VERTICAL CON	TROL IDENTIFIE	D	
Non	e			None			
PHOTO NUMBER		STATION NAME		PHOTO NUMBER	\$TATION	DESIGNATION	
	s) 8138 (M	atte ratio, l		e)			
PHOTO NUMBER		OBJECT NAME		PHOTO NUMBER	OBJI	ECT NAME	
63(S)8138	Napoopoo Cooks Mo						
5. GEOGRAPHIC	NAMES:	REPORT X	NONE	6. BOUNDARY AN	D LIMITS: TR	EPORT X NO	
7. SUPPLEMENTA				er Doublet An	R		
None							
8. OTHER FIELD	RECORDS (Sket	h books, etc. DO NOT	list data submitt	ed to the Geodesy Di	vision)		
l Field ed: l Field ed:		rint					
1 Form 76-4							

NOAA FORM 76-36D (3-72)

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

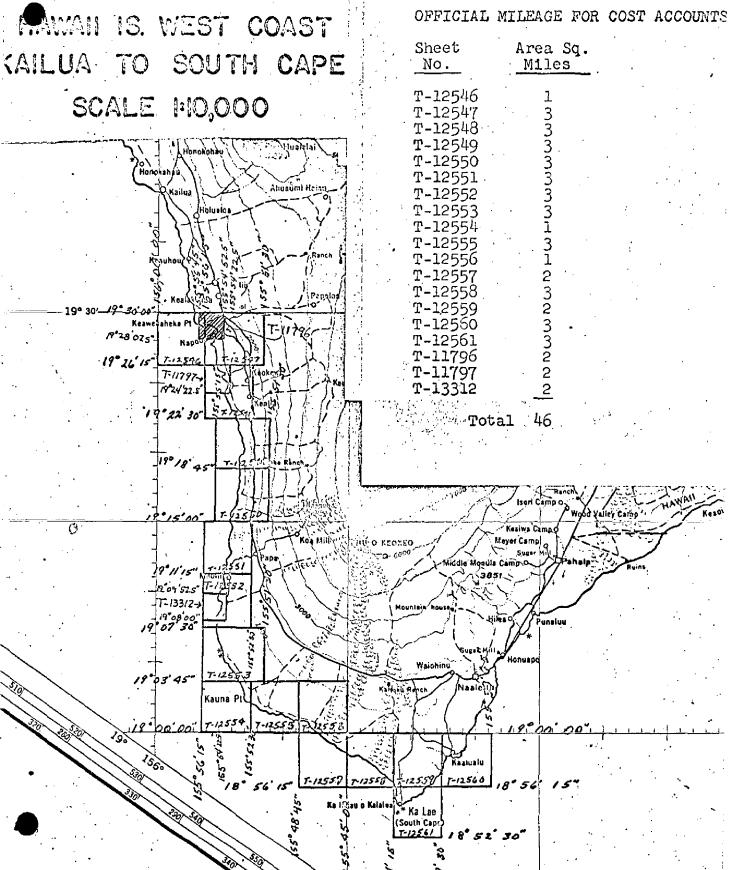
T-11796

RECO	RΠ	ΩF	SHI	RV	FY	HSE
RECU	ĸν	UF	JUI	N 7		UJE

		RECO	RD OF SURVE	Y USE			
I. MANUSCE	RIPT COPIES						
	co	MPILATION STAGE	S			DATE MANUSCR	IPT FORWARDED
	ATA COMPILED	DATE	ŔE	MARKS		MARINE CHARTS	HYDRO SUPPORT
_	ation complete g field edit	Mar. 1972	Class II	manuscri	ipt	None	July 1972
	edit applied, ution complete	Apr. 1974	Class I	manuscrip	ot [June 1980	May 1974
Final F	Review	Apr. 1987	Final Ma	р		July 1987	July 1987
-							
	RKS AND AIDS TO NAVIGA						
I. REPO	RTS TO MARINE CHART D	IVISION, NAUTICAL	DATA BRANCH				
NUMBER pages	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED			REMA	ARKS	
2		June 1980	Landmarks	& Aid_f	or Ch	arts	
							
						,	
2. X R	EPORT TO MARINE CHAR'	T DIVISION, COAST	PILOT BRANCH. AERONAUTICAL	DATE FORW.	ARDED:	June 1980	None
	AL RECORDS CENTER DAT						
7. <u>X</u> E	BRIDGING PHOTOGRAPHS;	X DUPLICATE	BRIDGING REPO	лят: 76—71 со	MPUTE	R READOUTS.	
	ONTROL STATION IDENT						
	OURCE DATA (except for G ACCOUNT FOR EXCEPTION		port) AS LISTED I	IN SECTION II	I, NOAA	FORM 76-36C.	
4. 🔲 🛭	DATA TO FEDERAL RECO	RDS CENTER. DAT	E FORWARDED:				_
IV. SURVEY	FEDITIONS (This section s			p edition is reg			
SECOND	TP -	(2) PH			RE	TYPE OF SURVEY	SURVEY
EDITION	DATE OF PHOTOGRAP			1		MAP CLASS	30K1E1
LUTTION			-] □n.	□m.		FINAL
*	SURVEY NUMBER	JOB NUMBER	₹	<u> </u>	_	YPE OF SURVEY	·
THIRD	TP .	_ (3) PH		ļ	∐ R€V		SURVEY
EDITION	DATE OF PHOTOGRAP	HY DATE OF FI	ELD EDIT	□н.	□m.	MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBER	ŧ		_	YPE OF SURVEY	
FOURTH	TP	_ (4) PH			LJREV		ORVEY .
EDITION	DATE OF PHOTOGRAPI	HY DATE OF FI	ELD EDIT	□ 11.	ш	MAP CLASS □IV. □V.	FINAL

JOB PH-6402

JOB PH-6402 SHORELINE MAPPING



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-11796

This 1:5,000 scale Final Field Edited Inset Map is one of nineteen maps that comprise PH-6402, Hawaii Island, West Coast, Kailua to South Cape. The project consists of sixteen 1:10,000 scale maps (T-12546 thru T-12561) and three 1:5,000 scale inset maps (T-11796, T-11797, T-13312).

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 provides a large scale portrayal of Kealakekua Bay and vicinity. This inset map is contained within the northern segment of maps T-12546 and T-12547.

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, aerotriangulation, and compilation. Color photographs at 1:15,000 scale were obtained for compilation and hydro support. Additional color photographs at 1:15,000 scale were obtained in March 1969 with the Wild RC-8 "E" camera. These supplemental photographs were used to compile inset maps T-11796 and T-11797. 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 contact photographs. This activity was conducted in February thru September 1964 in conjunction with adjoining project PH-6401.

Analytic aerotriangulation for the 1963 photography was adequately provided by the Washington Science Center in June 1969. The points from photo strip #4 contained in adjoining project PH-6401 were included in this bridge. Results from the bridge were used indirectly to control this inset map. Since the 1969 photographs, used to compile this map, were not included in the bridge, compilation was task with determining control common to the 1963 and 1969 photography. During the compilation of the common smaller scale map T-12547, sufficient pass points were established by stereo instrument methods to adequately control the 1969 photographs. Aerotriangulation activity included ruling the base manuscript and also provided ratio prints of the 1963 and 1969 photographs for compilation and hydrographic/field edit operations.

Compilation for this inset map was performed at the Coastal Mapping Section, Atlantic Marine Center in March 1972. The primary source of compilation was the 1969 color photographs; however, the field inspected

T-11796

1963 bridging photographs and the 1963 color photographs were used to supplement the photointerpretation. Copies of the initial compilation and hydrographic support data were forwarded to the hydrographer for field edit.

Field edit was conducted in conjunction with hydrographic survey H-9308 by NOAA Ship RAINIER personnel in September 1972.

Application of field edit was completed at the original compilation office in April 1974 and the manuscript was advanced to Class I. Map copies were submitted to the hydrographer for smooth sheet application.

Final review was performed at the Atlantic Marine Center in April 1987. A comparison was made with the common hydrographic surveys and nautical chart. 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.

7

FIELD INSPECTION

T-11796

Field activity prior to compilation included a field inspection of the shoreline and the recovery/photoidentification of horizontal control necessary for project aerotriangulation. Field inspection consisted of an evaluation of the 1963 1:30,000 scale contact photographs. The 1969 photographs used to compile this manuscript were not field inspected.

UNITED STATES GOVERNMENT

U.S. DEPARTMENT OF COMMERCES
COAST AND GEODETIC SURVEY

631W

Memorandum

: Chief, Photogrammetric Field Operations

DATE: August 5, 1964

: Honolulu Field Officer THRU

FROM : Lt(jg) Edward P. Cline

SUBJECT: Control Identification Project No. 21413

No problems were found in the control identification on Project 21413. The following is a list of the stations identified on the various Flight lines:

FLIGHT STRIP NO. 5

WAIKAKUU,4, 1951 KAPUKAWAA, 1884 OHEPUUPUU, 1890

FLIGHT STRIP NO. 6

KAMOI, 1948 NA PUU a PELE, 1891 PUU KI, 1914 TANK, 1948 Supplimental Station Pricked: KAUNA POINT LIGHT, 1949

FLIGHT STRIP NO. 7

KALAB 2, 1948 PALAHEMO 1898 KANILO, 1898 KIPARPAR, 1898 Supplimental Stations Pricked: KALAE LIGHT, 1948 KALAE, 1887 MAHANA, 1898

The ratio prints provided by the Washington Office were of great assistance in the identification of the stations and they were very well placed.

dward P. Cline

Photogrammetric Plot Report Hawaii Island, Hawaii PH-6402

June 10, 1969

21. Area Covered

This project extends along the southwest short of Hawaii Island. It includes T-sheets 12546 through 12561 at 1:10,000 and T-sheets 11796, 11797 and 13312 at 1:5,000. This project joins PH-6401 which extends along the north-west shore of the island.

22. Method

Strips were bridged on the stereoplanigraph and adjusted by IBM 1620 methods. Strip #4 discussed in the report for PH-6401. Strip #10 was adjusted on five triangulation stations with tie points from Strips #4 and #11 as checks. Strip #11 was adjusted on five stations with one station and tie points as checks. The adjustment of Strip #12 met with considerable problems. These problems were due to control identification on stations KAMILO, KIPAEPAE on the northeast end of the strip. Points were dropped from Strip #11 to enable model 63-S-7964 and 7965 to be set, thus enabling T-sheet 12561 to be completed.

T-sheets 12559 and 12560 must await further field work. Difficulties were also experienced in bridging Strip #13. This problem was resolved by dropping enough points from Strips #4 and #10 to set individual models between 63-S-8080 and 8085. All points between strips were averaged. Points were drilled by using the Wild PUG.

23. Adequacy of Control

Control provided by the field was adequate. The following stations could not be held in the bridging adjustments.

1. KEEI SOUTH BASE, 1948, SS #1 and SS #2, could not be held in Strip #13, as was the case of Strip #4 in PH-6401. No reasons could be determined for the lack of adjustment with other points.

4. McCANDLESS, 1948 SS #1 and SS #2 altho in held in the bridging could be seen on only one intograph in Strip #10 due to cloud coverage.

24. Supplemental Data

Ratio prints will be provided to aid in compilation. 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. 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

Notes to Compiler PH-6402 Hawaii Island, Hawaii

The following points should be used in setting individual models along Strips #12 and #13.

(1) 63-S-7964-7965

Points 68803, 68804, 67100, 67101, 64100, 6410 64102 and 64103.

(2) 63-S-8080-8081

Points 22330, 23310, 23800, 23801

(3) 63-S-8081-8082

Points 77331, 78333, 22801, 23800, McCANDLESS SS #1 and SS #2

(4) <u>63-s-8082-8083</u>

Points 76331, 77331, 77333

(5) <u>63-s-8083-8084</u>

Points 75331 HONAUNAU ST. BENEDICT CATH. CH. SPIRE, 1948 plus points dropped from model 8082-8083.

(6) <u>63-s-8084-8085</u>

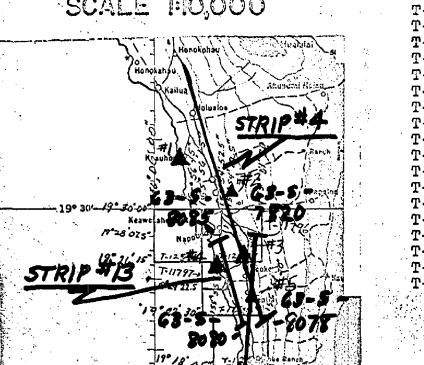
Points 75331, 75333 plus points dropped from model 8083-8084.

Plates 63-S-7821 and 7824 were not used in bridging Strip #10.

Plates 63-S-7976, 7978, 7880, 7982 and 7984 were not used in Strip #11.

AILUA TO SOUTH CAPE

SCALE 1:10,000



JOB PH-6402

OFFICIAL MILEAGE FOR COST ACCOUN

Sheet j. POINT, 1928

2. KANAKU, 1948

T-12: 3. HONAUNAU ST. BENEDKT

CATH. CH. SPIRE, 1948

T-12 4. KEET S. BASE, 1948

T-12 5 Mc CANDLESS, 1948 T-12 5 Mc CANDLESS, 1948

-12 6. WAIKAKUU 4, A51

121 7. KAPUKAWAA, 1962 1884

T-12 8 KAMOT, 1948 T-12 9, WA PUUA PELE, 1949

T-12 10. POU KI, 1949

T-12 11 TANK, 1949 T-1212 KIPHEPAE 1948 T-1113 KAMILO, 1949 T-1113 KAMILO, 1949

T-13 4 MAHANA, 1949

15. PALAHEMO, 1948

16. KALAE, 1948

17. KALAE 2, 1948 18. KALAE LIGHT, 1948

19 OHEPUUPUU, 1948

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.

120

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, Jhn Dorraw fr

/John D. Perrow, Jr

Approved by,

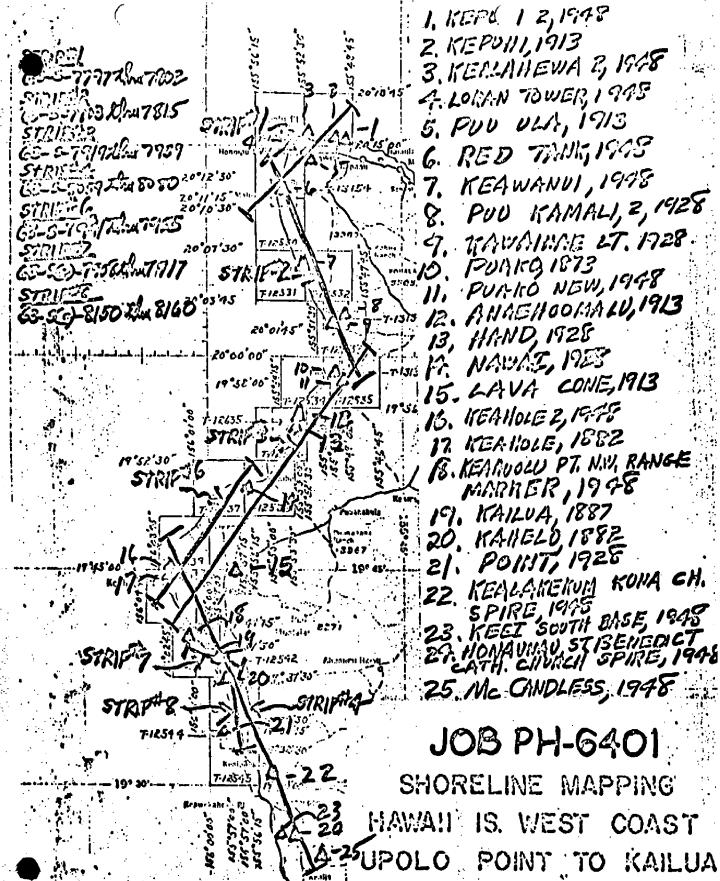
Henry P. Eichert ..

Chief, Aerotriangulation Section

per phone, call John Perrow 3/5/69

010 Havailan Datum

SCALE 1.5,000 @ 1.10,000



NOAA FORM 76-41				CHARACTER M	U.S. DEPARTMENT OF COMMERCE
		DESCRIPTIV	SCRIPTIVE REPORT CONTROL RECORD		ND A I MOSPHERIC ADMINISTRATION
MAP NO.	ON BOF		GEODETIC DATUM	ORIGINATING ACTIVITY	ACTIVITY
T-11796	PH-6401	0.1	Old Hawaiian Datum	al	Mapping Section, AMC
STATION NAME	SOURCE OF INFORMATION	AEROTRI- ANGULATION POINT	COORDINATES IN FEET STATE HAWALL	l	REMARK
	(200	NUMBER	ZONE	γ LONGITUDE	
	G. P.		=X	\$\psi\$ 19\circ 28\cdot 55.877"	,
NAPOOPOO LIGHT, 1928	Pg. 34	•	y=	λ 155° 56' 21.592"	
NAPOOPOO, KAHIKOLU	о. Б		χ=	\$ 19° 28' 21,182"	
CHURCH, SPIRE, 1913	Pg. 34		y=		
			=χ	ф	
			=ĥ	۲	
			=X	•	
			=ĥ	۲	
			=X	•	
			<i>=h</i>	٧	
			=X	ф	
			=ĥ	γ	
			=χ	ф	
			=ĥ	γ	
			<i>=</i> χ	ф	
			=ħ	γ	
			=χ	ф	
			fi.	γ	
			=X	ф	
			<i>i</i> h=	۲	
COMPUTED BY A. C. Rauck, Jr.		DATE 8-4-69	COMPUTATION CHECKED BY		DATE
		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 IS OBSOLETE.	CH IS OBSOLETE,	

COMPILATION REPORT

T-11796

31. DELINEATION:

Delineation was accomplished by stereo instrument methods using the 1969 1:15,000 scale compilation photographs. Ratio prints of the 1:15,000 scale 1963 photographs along with the 1969 photographs were used graphically to supplement the compilation of minor detail and to assist in photointerpretation. Field inspected data, annotated on the 1963 1:30,000 bridging photographs, was applied where the features could be accurately identified and transferred to the 1969 compilation photographs. Individual rocks that could not be clearly identified were not compiled.

Photo coverage and quality were adequate.

32. CONTROL:

Control for this sheet was established by instrument compilation methods from the common 1:10,000 scale manuscript T-12547. When map T-12547 was compiled from 1963 photographs, common points were established on the 1969 photography and the positions were plotted on this manuscript. Refer to the Office Instruction dated October 28, 1969-Item 5.08 and Photogrammetric Plot Reports dated February 4, 1969 (PH-6401) and June 10, 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, coral and foul limits were delineated from office interpretation of the 1969 compilation photographs and from the annotated 1963 photographs resulting from the precompilation field inspection. Because of the small tide range, no mean lower low water line was compiled.

36. OFFSHORE DETAILS:

Compilation of offshore detail was performed as described in Item 31.

T-11796

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 this report, Item 32.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with USGS quadrangle Honaunau, Hawaii, dated 1959, scale 1:24,000.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with C. & G.S. Charts:

4123, 2nd edition, scale 1:10,000, June 12, 1967 4140, 3rd edition, scale 1:80,000, January 24, 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Arnold L. Shands Cartographer

December 1969

Approved:

Jeny 1. Harcock for Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

T-11796

Field edit was performed in conjunction with hydrographic surveys H-9308 and H-9346 in September 1972. Field edit did not resolve the difference between the published and photo position for Captain Cook's Monument and Napoopoo Light. The photo position for both features were submitted on the 76--40 forms. The manuscript was advanced to Class I.

GEOGRAPHIC NAMES

FINAL NAME SREET

PH-6402 Hawaii

T-11796

Captain Cook ---- (Not Compiled)

Cook Point

Cooks. Monument

Island of Hawaii

Kaawaloa

Kaawaloa Cove

Kealakekua Bay

Manini Beach

Napoopoo

Napoopoo Lighthouse

Rapocpoo Park

Pacific Ocean

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 7-7332 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.

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).

<u>T-13382</u> (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

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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 - 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 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

Kailua Bay 63-S(C)-7915 10/05/72 63-S(C)-7917 T-12543 63-S-8067 Keauhou Bay 63-S-8068 T-12544 63-S(C)-8158 Keauhou Bay 63-S(C)-8159		MANUSCRIPT NUMBER	REFERENCE PHOTO NUMBERS	REFERENCE DETATCHED POSITIONS
Makako Bay 63-S-8063* T-12541 63-S-8063* Kailua Bay 63-S-8094 T-13382 69-E-9255 Honokohau Bay 69-E-9254 T-12542 63-S(C)-7913 Detatched Posit Kailua Bay 63-S(C)-7915 10/05/72 T-12543 63-S(C)-7917 T-12543 63-S-8067 Keauhou Bay 63-S-8068 T-12544 63-S(C)-8158 Keauhou Bay 63-S(C)-8158				
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Keauhou Bay 63-S(C)-8159				
63-S(C)-8160			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

M	IANUSCRIPT NUMBER	REFERENCE PHOTO NUMBERS	REFERENCE DETATCHED POSITIONS
	T-12545 Keikiwaha Point	63-s-8088 63-s-8087*	
	T-12546 Keawekaheka Bay	63-s-8087*	
	T-11796 Kealakekua Bay	63-S-8138	Detatched Position 9/14/72
	T-12547 Kealakekua Bay	转 杂	
	T-11797 Honaunau Bay	**	-
ş	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 -1 2550	63-s(c)-7884	

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

No field edit done

REVIEW REPORT SHORELINE

T-11796

61. GENERAL STATEMENT:

Final review for this Final Field Edited Inset Map was accomplished at the Atlantic Marine Center in April 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:

A comparison was made with USGS quadrangle Honaunau, Hawaii, dated 1959, scale 1:24,000.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

This map is common to hydrographic surveys H-9308, RA-5-2-72, 1:5,000 scale and H-9346, RA-10-9-72, 1:10,000 scale. A comparison with both surveys did not reveal any significant differences.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with NOS charts:

19332, 6th edition, scale 1:10,000, February 15, 1986 19327, 8th edition, scale 1:80,000, 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:

Jerry L. Hancock Final Reviewer

Approved for forwarding:

Belle H. Barner Billy H. Barnes

Chief, Photogrammetric Section, AMC

Chief, Photogrammetric Production Sec. Chief, Photogrammetry Branch

HYDROGRAPHIC PARTY

GEODETIC PARTY

PHOTO FIELD PARTY

COMPILATION ACTIVITY

PINAL REVIEWER

QUALITY CONTROL & REVIEW GRD. (19320)(See reverse for responsible personnel) AFFECTED CHARTS 4102 4115 4123 ORIGINATING ACTIVITY Sept. 14, 1972 (S) 8138 METHOD AND DATE OF LOCATION (See instructions on reverse side) I-P-5 FIELD June 1980 Sept. 1, 1963 U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION 63(S) 8138 DATE OFFICE 21,35 Kailua to South Cape The following objects HAVE | HAVE NOT | been inspected from seaward to determine their value as landmarks. D.P. Meters LONGITUDE Old Hawaiian 56 NONFLOATING AID NOTHINGREE FOR CHARTS West Coast 155 POSITION 0 // D.M. Meters 55,77 LOCALIT · j. LATITUDE 28 0 5 DESCRIPTION Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in perentheses) Hawaii T-11796 REPORTING UNIT (Field Peny, Ship or Office) Coastal, Mapping Div. AMC Norfolk, VA PH-6402 Napoopoo Light Replaces C&GS Form 567. X TO BE CHARTED TO BE REVISED TO BE DELETED 110AA FORM 76-40 T-126 CHARTING LIGHT

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	RESPONSIBLE PERSONNEL	PERSONNEL	
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E FFICE IDENTIFIE nter the number ay, and year) or dentify and locat XAMPLE: 75E(C) XAMPLE: 8-12-7	D AND LOCATED OBJECTS and date (including month, f the photograph used to ate the object.	FIELD (Cont'd) B. Photogrammetric field entry of method of ideate of field work an graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	ammetric field positions** require f method of location or verification, field work and number of the photosed to locate or identify the object. P-8-V 8-12-75 74L(C)2982
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NOAA FORM 76-40 (8-74)

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vations based entirely upon ground survey methods.

SUPERSEDES NOAA FORM 78-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S.GPO:1975-0-665-080/1155

OUALITY CONTROL & REVIEW GRP. COAST PILOT BRANCH (See reverse for responsible personnel) (19320)AFFECTED CHARTS 4115 4102 4123 ORIGINATING ACTIVITY MYDROGRAPHIC PARTY
CEODETIC PARTY
PHOTO FIRLD PARTY
COMPILATION ACTIVITY 1964 Sept. 14, 1972 Triang. Rec. 63(8) 8138 METHOD AND DATE OF LOCATION (See Instructions on reverse side) V-VIS L-P-5 FIELD Sept. 14. 1963 June 1980 U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION UNIT Sept. 1, 1963 63(S) 8138 63(S) 8138 OFFICE Sept. The following objects HAVE | HAVE NOT | been inspected from seaward to determine their value as landmarks. 05,795 Kailua to South Cape D.P. Merers 10.08 LONGITUDE 55 56 . West Coast old Hawaiian 155 155 POSITION 21.182 D.M. Meters 03,38 LATITUDE 28 29 19 19 Hawaii DESCRIPTION Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses) J" Louis T-11,796 = 43(203)REPORTING UNIT If 1810 Perty, Ship or Office) Coastal Mapping Div, AMC Norfolk, VA (Napoopoo, Kahikolu Church Captain Cook's Monument Ht. PH-6402 1913) Spire, Replaces C&GS Form 567. XTO BE CHARTED TO BE REVISED TO BE DELETED NOAA FORM 76-40 T-126 CHARTING SPIRE MOM

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	** ? RESPONSIBLE PERSONNEL	
TYPE OF ACTION	MAN	ORIGINATOR
		PHOTO FIELD PARTY
		X HYDROGRAPHIC PARTY
OBJECTS INSPECTED FROM SEAWARD		GEODETIC PARTY
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	S. Hollinshead	FIELD ACTIVITY REPRESENTATIVE
FOST TORS DETERMINED AND/OR VENITIED	G. Vanderhaven	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL		REVIEWER
AND REVIEW GROUP AND FINAL REVIEW		QUALITY CONTROL AND REVIEW GROUP
ACTIVITIES		REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
	(Consult Photogrammetric Instructions No. 64,	
פרו פר	(Pital)	

1. OFFICE IDENTIFIED AND LOCATED OBJECTS day, and year) of the photograph used to Enter the number and date (including month, Identify and locate the object. 75E(C)6042

FIELD

. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: Field P - Photogrammetric

Located

Verified Vis - Visually

Triangulation Field identified

Theodolite

Traverse

Planetable

Intersection Sextant

Resect ion

Field positions* require entry of method of location and date of field work.

F-2-6-L

EXAMPLE: 8-12-75

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

EXAMPLE: graph used to locate or identify the object. date of field work and number of the photoentry of method of location or verification, Photogrammetric field positions** require P-8-V

74L (C) 2982 8-12-75

II. TRIANGULATION STATION RECOVERED angulation station is recovered, enter 'Triang. EXAMPLE: Trlang. Rec. Rec.' with date of recovery. When a landmark or aid which is also a tri-8-12-75

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH EXAMPLE: Enter 'V+Vis.' and date. V-Vis. 8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

NOAA FORM 78-40 (8-74)

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SUPERSEDES NOAA FORM 76-40 (2-7.1) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U. S. GPO:1975-0-665-080/1155

MAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. $\underline{T-11796}$, (PH-6402)

INSTRUCTIONS

A basic bydrographic 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

FORM, CA 68-8882 SUPERSEDES, ALL EDITIONS OF FORM CA 68-978.

CHART	DATE	CARTOGRAPHER	REMARKS
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