NOAA FORM 76-35 (6-80)

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

DESCRIPTIVE REPORT

	Edition No.		
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FIELD EDITED	MAP		
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LOCALIT	Υ		
- NORTH COAST	•		
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NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE	TYPE OF SURVEY	SURVEY TP- 00069
(3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TIPE OF SURVEY	SURVEY 17. 00005
	ORIGINAL	MAP EDITION NO. (])
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final
	REVISED	лов Х 94- _СМ-7712
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Constal Manager Division No. 11, 140	TYPE OF SURVEY	JOB PH-
Coastal Mapping Division, Norfolk, VA	ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	RESURVEY	SURVEY DATES:
Roy K. Matsushige	REVISED	19TO 19
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
AerotriangulationFeb. 13, 1978	Control	Nov. 2, 1977
CompilationApril 12, 1979		
The state of the s		
II. DATUMS	OTHER (Specify)	
1. HORIZONTAL: 1927 NORTH AMERICAN	Old Hawaiian	
□ MEAN HIGH-WATER	OTHER (Specify)	
MEAN LOW-WATER		
2. VERTICAL: MEAN LOWER LOW-WATER		
MEAN SEA LEVEL		
	4. C	SRID(S)
Transverse Mercator	Hawaii	1
5. SCALE	STATE	ZONE
1:20,000		
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METHOD: Analytic LANDMARKS AND AIDS BY 2. CONTROL AND BRIDGE POINTS PLOTTED BY	S. Solbeck S. Solbeck S. Solbeck	Jan. 1979 Jan. 1979 Jan. 1979
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2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: COradomat CHECKED BY 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	S. Solbeck S. Solbeck S. Solbeck R. Kravitz	Jan. 1979 Jan. 1979 Jan. 1979 Apr. 1979
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: COradomat CHECKED BY 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY CHECKED BY	S. Solbeck S. Solbeck S. Solbeck R. Kravitz L. Neterer, Jr.	Jan. 1979 Jan. 1979 Jan. 1979
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NOAA FORM 76_36B (3_72)		TP-00069			OSPHERIC A	T OF COMMERCE ADMINISTRATION OCEAN SURVEY
,	CON	APILATION				
1, COMPILATION PHOTOGRAPHY						
CAMERA(S) F.L. = 153.21 m Zeiss RMK A15/23 Lens Tide stage reference	m 118960		F PHOTOGRAPHY LEGEND		IME REFER	RENCE
TIDE STAGE REFERENCE XX PREDICTED TIDES REFERENCE STATION RECORDS	!	(C) COLOR	HROMATIC	ZONE Hawai MERIDIAN	<u>i</u>	XX TANDARD
TIDE CONTROLLED PHOTOGRA	∍нγ	(I) INFRA	RED	150th		DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE		STAGE OF	TIDE
77GSAASY-384-387 76GSAASY-227-230 76GSAASY-232-237	Jan.13,1977 Dec.18,1976 Dec.18,1976		1:50,000 1:30,000 1:30,000	1.2 ft.	above	M.L.L.W. M.L.L.W. M.L.L.W.
				Mean R	ange =	1.6 ft.
REMARKS Photography by A Geodetic Survey	merican Aeria	al Survey,	Inc. of Nor	thern Calf	ornia	
2. SOURCE OF MEAN HIGH-WATER	LINE:					
1:50,000 scale photo as follows:	s and graphic 227-230 x1. 232-237 x1.	.49	ng the 1:30,0	00 scale p	hotos r	atioed
None compiled.	OR MEAN LOWER LO	W-WATER LIN	E:			
4. CONTEMPORARY HYDROGRAPH SURVEY NUMBER DATE(S) H-9920 Oct/Nov H-9921 Nov. 198	80 Registe	red su	ys that are sources t	or photogrammetr		oformation.) Y COPY USED
5. FINAL JUNCTIONS NORTH NO survey	No survey	/	^{ритн} РН-6703 Т-13261	WE	st TP-0	0068
REMARKS	·····					

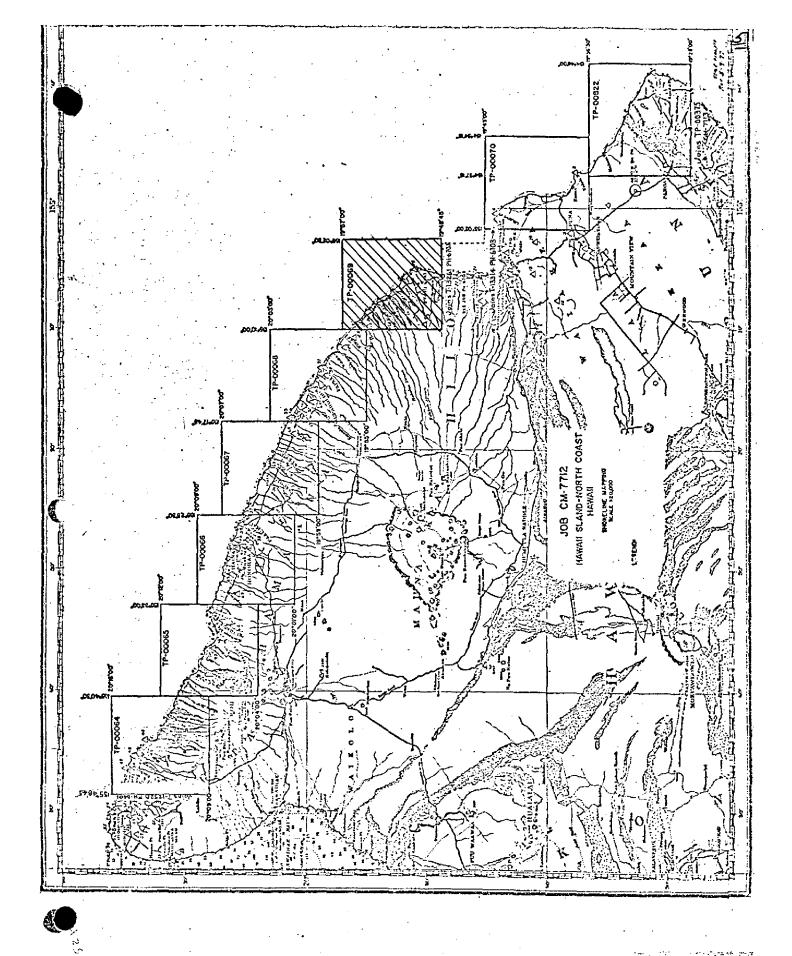
NOAA FORM 76-36C (3-72)		TP-00069 History of Field		NIG AND ATMOSPHERIC	NT OF COMMERC ADMINISTRATIO L OCEAN SURVE
I. XX FIELD MANAGE	CHON OPERA	TION Photo Identification	D EDIT OPERATION		
	OPER	RATION		IAME	DATE
1. CHIEF OF FIELD	PARTY		R. Melby		Jan-Feb
			R. Melby		1978
3 HODIZONTAL CO	NTBOL	RECOVERED BY	None		<u>Jan 1978</u>
2. HORIZONTAL CO	NIROL	ESTABLISHED BY	R. Melby		Jan. 1978
		RECOVERED BY	None		0411.1370
3. VERTICAL CONT	ROL	ESTABLISHED BY	None		<u> </u>
		PRE-MARKED OR IDENTIFIED BY	None		<u> </u>
	REC	OVERED (Triengulation Stations) BY	R. Melby		Jan 1978
4. LANDMARKS AND	ס	LOCATED (Field Methods) BY	None		
AIDS TO NAVIGA	TION	IDENTIFIED BY	None		
		TYPE OF INVESTIGATION			
5. GEOGRAPHIC NA	MES	COMPLETE BY			
INVESTIGATION		SPECIFIC NAMES ONLY			
		XX NO INVESTIGATION	<u> </u>		<u> </u>
. PHOTO INSPECT		CLARIFICATION OF DETAILS BY	None		<u> </u>
BOUNDARIES AN	D LIMITS	SURVEYED OR IDENTIFIED BY	N.A.		
I. SOURCE DATA HORIZONTAL CO	NTROL IDEN	TIFIED	T2. VERTICAL CON	TROL IDENTIFIED	
Photoident			None	1102 1021111112	
PHOTO NUMBER	Ti Teu	STATION NAME	PHOTO NUMBER	STATION DES	
7GSAASY-386 7GSAASY-385	Pepeekeo	, 1877 (direct) Point Light, 1949 . identified)			
3. PHOTO NUMBER: None 4. Landmarks and		of details) /IGATION IDENTIFIED		,	
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
77GSAASY-385	Pepeekeo	Point Light			
5. GEOGRAPHIC NA 7. SUPPLEMENTAL		REPORT XX NONE	6. BOUNDARY AND	D LIMITS: REPOR	TY XX TR
None	ECOBOS	DO NOT			
		h books, etc. DO NOT list date submit			perations

NOAA FORM 76-366 (3-72)		TP-00069 History of Fieli		U.S. DEPARTMEI NIC AND ATMOSPHERIC NATIONA	ADMINIS	STRATION
I. TIELD INSP	ECTION OPERAT	ION XX FIE	LD EDIT OPERATION			
	OPERA	TION		NAME	D	ATE
1. CHIEF OF FIEL	O DARTY					
- CHIEF OF FIEL	PARIT		A. J. Patri			1980
2 HODIZONIA: 0	CONTROL	RECOVERED BY		ato, R. B. Melby ato, R. B. Melby		
2. HORIZONTAL C		ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	31	ito, K. D. MEIDY	oct.	1980
		RECOVERED BY	11			
3. VERTICAL CON	ITROL	ESTABLISHED BY	N1			
		PRE-MARKED OR (DENTIFIED BY	h.T			
	RECO	VERED (Triangulation Stations) BY	P. E. Pegna	ito, R. B. Melby	Oct.	1980
4. LANDMARKS AN	ND	LOCATED (Field Methods) BY	None			
AIDS TO NAVIG	ATION	IDENTIFIED BY	A. F. Trimb	ole	Oct.	1980
		TYPE OF INVESTIGATION			1	
5. GEOGRAPHIC N		COMPLETE BY	A. F. Trimb	alo.	000	1000
, 23 . 13 / 101	•	NO INVESTIGATION	A. F. ITIMO	ne	UCT.	1980
4 BHOTO 195555	TION		A. F. Trimb	le, T.A. Baxter	·nc+	1020
 PHOTO INSPEC BOUNDARIES A 		SURVEYED OR IDENTIFIED BY	Mono	TICS TIAL BUNCET	000.	1300
II. SOURCE DATA		TORY C. ED ON IDENTIFIED BY			<u> </u>	
None		FIED	None	NTROL IDENTIFIED		
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DESI	GNATIO	N
	228, 229, 2	of details) 233-235 (Ratios) GATION IDENTIFIED				
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT N	IAME	<u> </u>
76GSAASY-229	Peneeken I	Radio Station KIPA -	76GSAASY-229			
0.4.5.	Mast, 1978	3	7003HA31-229	Pepeekeo Mill	ianks	
76GSAASY-229	Pepeekeo F	Point Light, 1949	76GSAASY-233	Wailea Bridge		
76GSAASY-229	Pepeekeo S	Stack, 1980	76GSAASY-234	Hakalau Bridge	·	·
5. GEOGRAPHIC N		REPORT NONE	6. BOUNDARY AN	D LIMITS: REPOR	т <u>XX</u>	NONE
7. SUPPLEMENTA	L MAPS AND PLA	INS				
None						
	RECORDS (Sketch	books, etc. DO NOT list data subm	nitted to the Geodesv D	livision)		
	it Ozalid,	2 Field 76-40 forms,				
	·					

NOAA FORM 76-36D (3-72)

U.S. DEPARTMENT OF COMMERCE
TP=00069

		RECOI	ED OF SURVEY USE		
. MANUSCRIF	PT COPIES				
		MPILATION STAGES		DATE MANUSCR	IPT FORWARDED
DA	TA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPO
Compilat	ion complete, field edit.	Aug.10,1979	Class III manuscri superseded		Aug. 197
	it applied,	Apr. 1982	Class I manuscript superseded	None	Apr. 198
Final Re	view	Aug. 1985	Final Map	let, 31, 1985	
	KS AND AIDS TO NAVIG		DATA BRANCU		
I. REPOR	TS TO MARINE CHART D		DATA BRANCH		
(Hages)	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		REMARKS	
2		det. 31, 1985	Landmarks and Aid	for Charting	
1000	10				
		-			-
A TAIL S					
2. RE	PORT TO MARINE CHAR	T DIVISION COAST	PILOT BRANCH. DATE FORW	VARDED.	
The second second second			, AERONAUTICAL DATA SECT		
1. XX BI 2. XX CC 3. XX SC AC	ATA TO FEDERAL RECO	; XX DUPLICATE (IFICATION CARDS; Geographic Names Re NS: ORDS CENTER. DAT	port) AS LISTED IN SECTION I	TTED BY FIELD PARTIES.	
V. SURVEY	EDITIONS (This section		ach time a new map edition is re		AND STREET
SECOND	TP -	(2) PH	N.	TYPE OF SURVEY	SURVEY
EDITION	DATE OF PHOTOGRAP	PHY DATE OF FI	ELD EDIT	MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBE	R	TYPE OF SURVEY	100
THIRD	TP -	(3) PH-	ELD EDIT	REVISED RE	SURVEY
COTTON					FINAL
	SURVEY NUMBER	JOB NUMBE		TYPE OF SURVEY	ÜRVĖY
FOURTH	TP - DATE OF PHOTOGRAF			MAP CLASS	OHVEY
EDITION			□II.	□III. □IV. □V.	DEINAL



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00069

This 1:20,000 scale final shoreline map is one of eight maps that comprise project CM-7712, Hawaii Island, North Coast, Hawaii. The eight 1:20,000 scale maps are assigned as TP-00064 through TP-00070 and TP-00822.

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 northeast coast of Hawaii Island from Lat. 19°48'45" to 19°57'00".

Photo coverage for the project was adequately provided with panchromatic photography flown by a private contractor, American Aerial Survey, Inc., with the Zeiss RMKA 15/23 camera. Aerotriangulation/compilation photographs at 1:50,000 scale and supplemental compilation/photo-hydro support photographs at 1:30,000 scale were taken at various times from Dec. 1976 to March 1977.

Field work prior to compilation consisted of the recovery, establishment, and photoidentification of horizontal control necessary for aerotriangulation. This activity was completed February 1978.

Analytic aerotriangulation was adequately provided by the Washington Science Center in January 1979. This activity also included ruling the base manuscripts and providing ratio photographs for compilation.

Compilation by office interpretation of the mapping photographs was performed at the Coastal Mapping Section, Atlantic Marine Center in August 1979. Copies of the Class III manuscript and hydrographic support data were forwarded to the hydrographer for field edit. A copy of the Class III manuscript was also submitted to the Marine Charts Section

Field edit for this map was performed in conjunction with hydrographic survey H-9920 by NOAA Ship FAIRWEATHER personnel in October 1980.

Application of field edit data was accomplished at the Photogrammetric Section, Pacific Marine Center in April 1982 and the manuscript was advanced to Class I. A copy of the Class I manuscript was forwarded to the Hydrographic Surveys Branch.

Final review was performed at the Atlantic Marine Center in August 1985. At this time a comparison was made with a registered copy of contemporary hydrographic surveys, H-9920 and H-9921, common to this

TP-00069

map. Hydrographic survey H-10052 also corresponds to a portion of the shoreline map, but no comparison was made because the survey is currently unregistered. A final Chart Maintenance Print and Notes to Hydrographer Print were prepared and forwarded to Photogrammetry headquarters for distribution.

The Descriptive Report for this final field edited map contains all pertinent information used to produce this map. The original base manuscript and related data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00069

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and photoidentification of the horizontal control necessary for the aerotriangulation of the project.

FIELD OPERATIONS REPORT

Projects CM-7712 & CM-7713

North and Southeast Coast, Island of Hawaii, Hawaii

January - February 1978

Area:

The two adjoining projects covers the southeast and northeast coast of the Island of Hawaii. The southernmost portion of the area is virtually a desert with little rainfall. The northeast coast is subjected to considerable rainfall and sugar cane fields are commonplace.

Except for a couple of small, isolated beaches, the shoreline is steep and rocky, where the lava flows reached the ocean.

Photography:

Panchromatic aerial photography was furnished the field unit for the photo-identification of the required horizontal control stations, necessary for the aerotriangulation. The photography was considered adequate for the field identification.

Horizontal Control:

All of the stations were reached by vehicle or short distance back packing

Several sun azimuths were observed to determine the azimuth to substitute stations. Greenwich Mean Time was observed and recorded with short wave radio signals from WWVH and a digital watch. Time and observed zenith distances were recorded to permit either the time/azimuth or time/altitude method of computation.

Station HILINA USGS 1961 was photo-identified and a sun azimuth was observed. B.M. 139YY USGS was used as an intermediate azimuth point, in conjunction with the sun azimuth. The B.M. did not have a previous azimuth or position. The U.S.G.S. published data lists R.M.I. as 46°00'26". A telephone conversation with the U.S.G.S. in Menlo Park, California confirmed the number 4 and 6 were transposed and the azimuth should read 64°00'26". The reference mark was used as a check angle.

Station PUU ULAULA was photo-identified using a sun azimuth and a stack. the stack is station PAHALA, KAU SUGAR CO STACK, 1977. An N.G.S. Geodetic Field Party was working in the area and a position of the stack should be available from Geodesy in the near future. However, the sun azimuth can be used to determine the azimuth to the sub-points.

Page 2

The field-photo data was submitted to the Rockville office before this report was written to permit the aerotriangulation of the flightlines at the earliest date.

Two non-floating aids to navigation and one landmark for charts were located by triangulation/traverse methods. They have been entered and submitted on form 76-40 to C-3415.

Respectfully Submitted,

Robert B. Melby Chief, PMC Photo Party

CPM 133



PHOTOGRAMMETRIC PLOT REPORT Island of Hawaii, Hawaii CM-7712

Jan. 2, 1979

AREA COVERED

The area covered by this report is the northern coast of the Island of Hawaii, excluding Hilo and its immediate surroundings. The area is covered by eight 1:20,000 scale manuscripts (TP-00064 through TP-00070 and TP-00822).

METHOD

Two strips of 1:50,000 scale black-and-white panchromatic photography were bridged by analytic aerotriangulation methods. Field identified control was provided.

Common points were located on the bridging photography and the 1:30,000 scale photography for ratio purposes.

Ratio prints have been ordered. The manuscripts were ruled on the Coradomat.

ADEQUACY OF CONTROL

The adjustment to ground of one strip in this project, as well as two strips on CM-7713 (the southeast coast), was not as good as expected. On strip one of CM-7713, the subpoints for Pulama, 1914 would not fit with the other control, being off by approximately 25 feet. Five stations were used to adjust this strip with a second degree curve. The largest residual error in the fit to the five stations was 3.5 feet which is considered reasonable.

On strips 2 and 4 of CM-7713 the intersection station, Honuopo, Hutchinson Sugar Co. Mill Stack, 1967, would not fit with the other control points. It was off approximately 16 feet. The fit to the other control points was good.

On strip one of this project the adjustment to ground is very poor, but no control points can be isolated as causing the poor adjustment. In the final adjustment, six control points were used to form a third degree curve. The largest residual error in the fit was six feet. Other control points were used as checks in this adjustment. The largest error of these was 16 feet and two were off by about 10 feet.

No apparent reason can be found for the discrepancies in the control for these two projects.

SUPPLEMENTAL DATA

USGS quads were used to provide vertical control for the job. Nautical charts covering this area were used to locate aids and landmarks.

PHOTOGRAPHY

The coverage, overlap, and quality of the photography proved adequate for the job.

Submitted by

Stephen H. Solbeck

Approved and Forwarded:

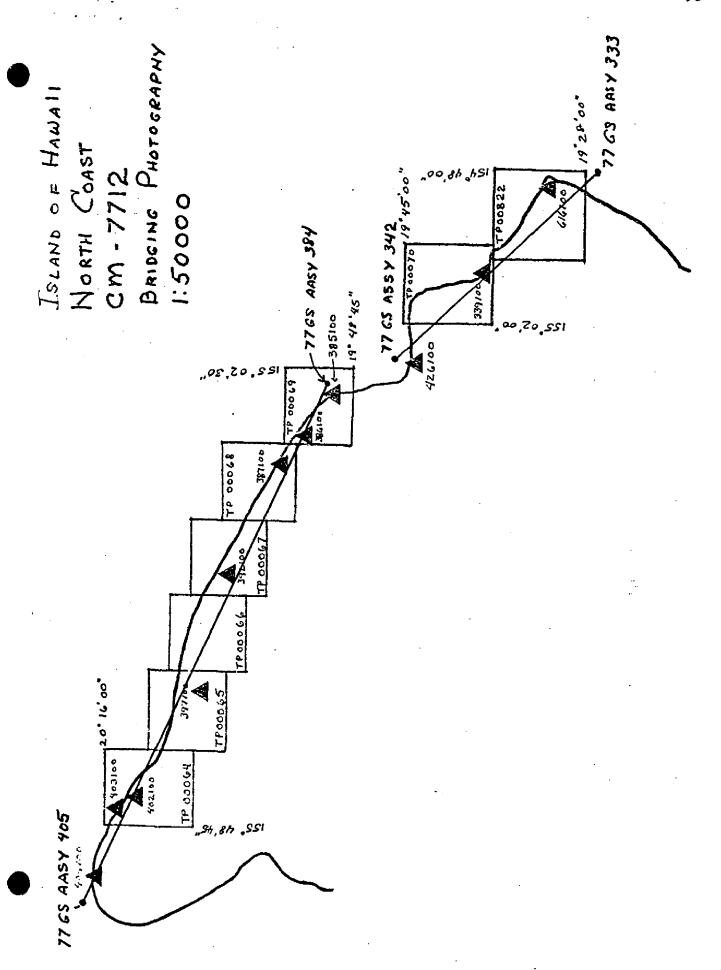
Don O. Norman

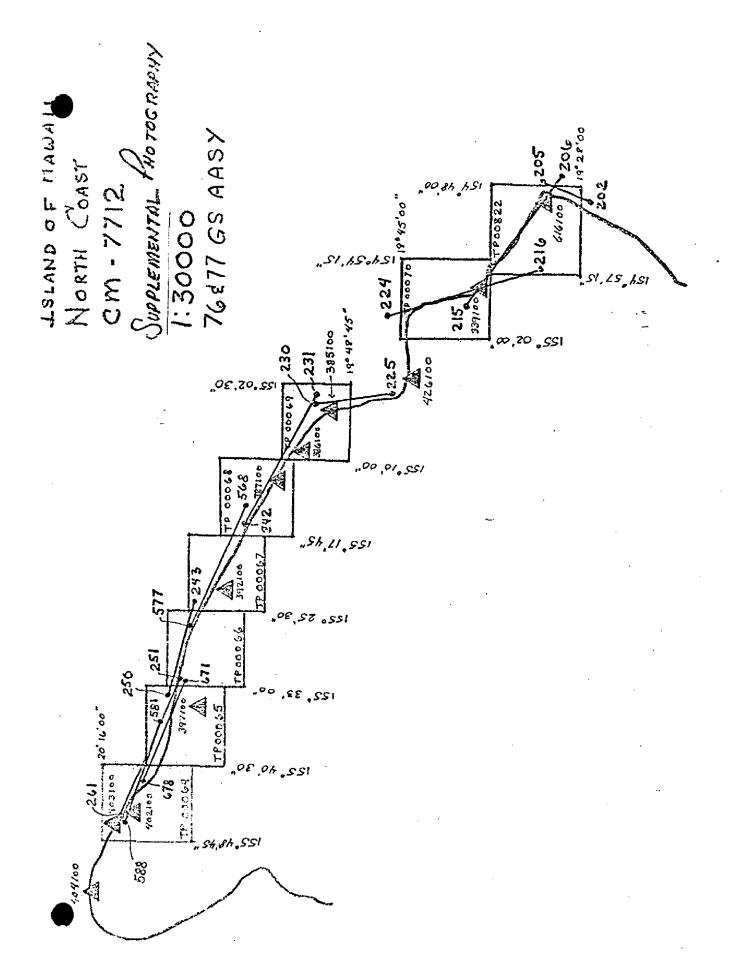
Don O. Norman

Chief, Aerotriangulation Section

CM-7712 HAWAII ISLAND, north coast strip 1 6 stations 3 degree

		· ·
▲ 385100 385101	PEPEEKEO POINT LT., 1948 sub point	(-0.8 -3.0) (-0.8 -4.0)
386100	HONOHINA, 1877 The image on the photo is very poor and its lack of fit has to be ignored although it does seem to be too large.	(-16.3 + 2.9)
▲387101	PUU OHAI, 1877 sub point	(-1.5 +3.4)
3 9 2141	PAAUILO STACK, 1948	(+8.4 -4.6)
▲392101 392102	OPIHIIALA, 1948 sub point A sub point B	(+6.2 +3.6) (+4.6 +1.4)
394141	PAAUHAU, PAAUHAU SUGAR CO. STACK, 1913	(+6.6 +1.4)
▲397101 397102	PUU MAUU NORTH, 1938 sub point A sub point B	(-4.1 -2.6) (-10.4 -2.3)
▲402100	NIULII, 1913	(-0.7 -5.6)
403100	KAUHOLA POINT LT., 1948	(+3.5 -6.8)
403141	HIND STACK, 1948	(-11.3 +0.1)
403401	KOHALA MILL STACK, 1948	(+2.0 -4.4)
404141	CATHOLIC CHURCH WEST CROSS ON BELFRY, 1948	(-40 +46)
404101 ▲ 404102	KEAIAHEWA 2, 1948 sub point A sub point B	(+3./ +2.3) (+/.0 +3.9)
405141	LORAN A, TOWER, 1964	(-1.5 +/0.4)
405142	LORAN C, TOWER, 1964	(-4./ +8./)





NOAA FORM 76-41				U.S. DEPARTMENT OF COMMERCE	DEPARTMENT	OF COMMERCE
[6.4 -6]		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		MOST NERIC AD	MINIS I KA I CIN
MAP NO.	ON BOF		GEODETIC DATUM	ORIGINATING ACTIVITY	1T.Y	
TP-00069	CM-7712		Old Hawaiian	Coastal Mapping	Div.,	AMC .
STATION NAME	SOURCE OF	AEROTRI- ANGULATION	COORDINATES IN FEET STATE HAWAÎI	GEOGRAPHIC POSITION	REMARKS	RKS
	(xepul)	NUMBER	ZONE	λ LONGITUDE	Front	Back
PEPEEKEO POINT		1	χ=	φ 19°51'01.041" <		
LIGHT, 1949	191551	385100	y=	λ 155°05'07.509"		
PEPEEKEO RADIO STATION	1	,	=X	φ 19°51'02.811" [~]		
MAST,	191551	89	y≠	λ 155°05'09.348" <		
DEPEEKEN STACK 1980	Unadjusted		χ=	φ 19°50'47.192"	1451.1	393.8
יבו בבעבט פועמיז ופסס	riela Position	 	n-	λ 155°05'19,362"	563.4	1182.4
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HONOHINA (HGS), 1877	191551		y=	λ 155 09 34.978 λ		
			χ=	ф		
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•			y=	λ		
			χz	ф		
			<i>y</i> =	γ		
			χ=	ф		
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COMPUTED BY		DATE	COMPUTATION CHECKED BY	<i>J</i> 11		
LISTED BY		DATE	LISTING CHECKED BY D. Bu	Butler	DATEApril	1982
HAND PLOTTING BY		DATE	-		DATE	

COMPILATION REPORT

TP-00069

31 - DELINEATION

Delineation was by instrument methods using the Wild B-8 stereoplotter and the 1:50,000 scale black-and-white photographs; and graphically using the 1:30,000 scale ratioed hydro-support photographs. Photograph quality and coverage were adequate for compilation.

32 - CONTROL

Refer to the Photogrammetric Plot Report dated January 2, 1979.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office stereoscopic interpretation of the ratio photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated by the Wild B-8 stereoplotter and by office stereoscopic interpretation of the ratioed photographs.

The mean high water line was office edited and refined by stereoscopic interpretation of the ratioed photographs.

36 - OFFSHORE DETAILS

There were no specific offshore details.

37 - LANDMARKS AND AIDS

There was one charted landmark and one charted aid within the mapping limits of the manuscript. Both of these were verified photogrammetrically.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

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

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated January 2, 1979.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S. quadrangle Papaikou, HA., scale 1:24,000, dated 1966, and with Papaaloa, HA., scale 1:24,000, dated 1966.

47 - COMPARISON WITH NAUTICAL CHARTS

Comparison was made with N.O.S. Chart No. 19320, scale 1:250,000, 12th edition, dated June 17, 1978.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Jeny L. Harrowk

for L. Williams

Cartographic Technician Date: April 23, 1979

Approved:

Albert C. Rauck, Jr.

Billy H. Barner for

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

TP-00069 CM-7712

FIELD EDIT

The field editor identified two bridges that he states are of landmark value. The center of each span was used to determine its geographic position. Photographs 76GSAASY 233, 234, and 235 were used to locate the centers.

The stage of tide of the photographs (1.2 feet above MLLW) would not permit the delineation of a mean lower low water line; therefore, the ledge areas identified by the field editor were not applied to the manuscript. All of these areas exist inside the breaker limit line, which indicates a condition that is hazardous to navigation.

A small area on photograph 76GSAASY 229 is said to contain a submerged rock; however, since no image is visible and a note refers it to hydrographic investigation, the rock was not delineated.

Several geographic names were submitted by the field editor. Some of them have been applied to the manuscript because they appear on the Geographic Names Sheet and were evidently overlooked during compilation. The remaining names were forwarded to Mr. Harrington, the Chief Geographer, for approval. See accompanying copy of letter.

The compiled bluffs were not addressed by the field editor. However, since the coastline is characterized by the eroding bluffs and the chart does not indicate any of landmark value, they were removed to remain consistent with the rest of this project.

Submitted by:

David Butler, Cartographer April 27, 1982

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7712 (Island of Hawaii - North Coast)

TP-00069

Alia Point Alia Stream Hakalau Hakalau Bay Hakalau Stream Hanapueo Stream Honohina Honomu Honomu Stream Kaahakini Stream Kapehu Stream Kawainui Kawainui Bay Kawainui Stream Kohola Point Kolelole Stream Kolekole Stream Lae O Puni Lehuawehi Point Loea Point Makea Stream

Nahaku Point Nanue Stream Onomea Onomea Bay Pacific Ocean Paheehee Stream Peleau Stream Peleuli Point Pepeekeo Pepeekeo Mill Pepeekeo Point Pohakumanu Bay Umauma Stream Waiaama Stream Waiehu Point Waikaumalo Stream Wailea Wailea Bay Waimaauou Stream

Approved:

Charles E. Harrington Chief Geographer

Nautical Charting Division

FIELD EDIT REPORT TP-00069 HAWAII, EAST COAST October, 1980

DESCRIPTION

The shoreline on this sheet from Onomea Bay north to Waiehu Point is characterized by steep, heavily vegetated bluffs. Wave action has eroded the coastline, resulting in detached rocks and submerged ledges, particularly around prominent points. Beaches do not occur along this stretch of coastline and there are no significant areas for small boat landings or harbors of refuge. There are no significant hazards to navigation in this area.

Pepeekeo Mill is a group of prominent structures. The tanks at approximately 19°50'42"N, 155°05'17"W are easily seen from seaward and make a good landmark, but the most prominent feature is the tall stack which is frequently emitting black smoke. This stack (Pepeekeo Stack, 1980) was located at 19°50'47.2"N, 155°05'19.4"W by third-order techniques.

There are two bridges which are of landmark value on this sheet. Wailea Bridge, at approximately 19°53'09"N, 155°07'20"W, crosses Kolekole Stream into Wailea Bay. Hakalau Bridge, at approximately 19°54'10"N, 155°07'57"W, crosses Hakalau Stream into Hakalau Bay. Both bridges are dominant concrete structures crossing deep gulches and are easily seen on the aerial photographs.

METHODS

Field edit was accomplished by visually inspecting the shoreline features and making comparisons to the manuscript and photographs from an open skiff. Little regard was paid to heights of tide due to the small range of tide and the clarity of the water. Rocks and ledges not on the manuscript were located on the paper photographs in the field using a magnifying glass and transferred to the cronopaque photos using a mirror stereoscope and light table on the ship. All items added to the manuscript are indicated on the photographs in violet ink. The appropriate photograph is referenced by number on the T-sheet. Green ink was used on the manuscript to indicate items to be deleted. Changes or additions to geographic names were indicated in red ink.

ADEQUACY AND COMPLETENESS OF COMPILATION

Numerous rocks and ledges were added within the "foul with rocks and submerged ledge" limits by the field editor to clarify detail of the coast. Most of the additional rocks were clearly visible on the photographs and could have been compiled from the photos.

The foul limits indicated by the compiler were changed by the field editor in some areas to include additional rocks and ledges and to correlate with inshore sounding line limits. Since launch OIC's were instructed to break

sounding lines at the surfline, the inshore sounding line limits should be considered the "foul with surf" limits. In general the photo compiled "foul with rocks and submerged ledge" limits agree with field observations and inshore sounding line limits, except for major changes to foul limits at latitudes 19°50'30"N, 19°51'45"N and 19°55'58"N.

GEOGRAPHIC NAMES

All of the geographic names precompiled on this sheet were verified in the field as names used by the local residents. Numerous additional names have been added to this sheet in red to indicate names in local usage that were not given by the compiler. All names were verified by at least three sources before being added. See Geographic Names Report, OPR-T126-FA-80, for details.

Two significant additions were Kawainui Bay at 19°49'25"N, 155°05'28"W, and Wailea Bay, previously designated as Wailea, at 19°53'10"N, 155°07'18"W. All other additions are names used locally for regions of land between two major streams. These names are prominent in local usage for a large area and, although most do not indicate a point, bay or other prominent geographic feature, they would assist local mariners.

MANUSCRIPT ACCURACY

No formal accuracy tests were conducted.

RECOMMENDATIONS

This manuscript will be complete, accurate and acceptable for charting purposes upon application of field edit data.

Submitted by:

A. F. Trimble Ensign, NOAA

Approved by:

W. F. Forster Commander, NOAA

REVIEW REPORT TP-00069

SHORELINE

61 - GENERAL STATEMENT

Final review for this final field edited map was accomplished at the Atlantic Marine Center in August 1985. 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 the following 1:24,000 scale U.S.G.S. quadrangles: Papaaloa, Hawaii; dated 1966 Papaikou, Hawaii; dated 1966.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Portions of contemporary hydrographic surveys H-9920, H-9921 and H-10052 are common to this final shoreline map. A comparison was made with registered copies of H-9920, FA 10-4-80, 1:10,000 scale, field surveyed Oct./Nov. 1980 and H-9921, FA-20-6-81, 1:20,000 scale, field surveyed Nov. 1980. Survey H-10052 is currently unregistered and consequently a comparison was not made.

The hydrographic surveys indicate various ledge limits along the shoreline. It appears that these limits were transferred from the field editors/hydrographers delineation on the field edit prints. However, according to the Addendum to the Compilation Report, the ledge limits were not compiled on the shoreline map.

Hydro Survey H-9920 shows a prominent bare rock at Lat. 19°50.3', Long. 155°05.1'. This rock does not appear on the photographs nor did the field editor comment about a rock in the area. The existence of this rock is questionable.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Chart: 19320, scale 1:250,000, 13th edition, July 10, 1982.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

TP-00069

Submitted by,

Juny 2. Harrock Jerry L. Hancock Final Reviewer

Approved for forwarding,

Billy H. Barne

Billy H. Barnes Chief, Photogrammetric Section, AMC

Approved,

Chief, Photogrammetric Section, Rockville

Rockville

1 1 1	DETERMINED plicable dat P - Vis	OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the bject. EXAMPLE: 75E(C)6042 8-12-75		FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	POSITIONS DETERMINED AND/OR VERIFIED				TYPE OF ACTION		
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UALLY ON PHOTOGRAPH	ON STATION RECOVERED mark or aid which is also a tri- station is recovered, enter 'Triang. date of recovery. rlang. Rec.	<pre>mmetric field positions** require method of location or verification, field work and number of the photo- ed to locate or identify the object. P-8-V 8-12-75 74L(C)2982</pre>		QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	GEODETIC PARTY OTHER (Specify)	M HYDROGRAPHIC PARTY	ORIGINATOR		

NOAA FORM 76-40 (8-74)

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

location and date of field work. EXAMPLE: F-2-6-L 8-12-75

Field positions* require entry of method of

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

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established

by photogrammetric methods.

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NOAA FORM 70-40 (8-74)

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SUPERSEDES NOAA FORM 78-40 (2-71) WHICH IS OBSOLETE, AND. Existing stock should be destroyed upon receipt of revision.

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. $\underline{\text{TP-00069}}$ (CM-7712)

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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