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.
	TP-00068	1
Job No.	CM-7712	
Map Classit	fication	
	FINAL, FIELD EDITED	MAP
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NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMER(ADMITTAL OCEANIC AND ATMOSPHERIC ADM		
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Coastal Mapping Division, Norfolk, VA	TYPE OF SURVEY	JOB PH-
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	RESURVEY	SURVEY DATES:
Roy K. Matsushige	- REVISED	19ТО 19
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
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Compilation April 12, 1979		
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II. DATUMS	OTHER (Specify)	
1. HORIZONTAL: 1927 NORTH AMERICAN	Old Hawaiian	
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2. VERTICAL:		
MEAN LOWER LOW-WATER		
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3. MAP PROJECTION		
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SURVEY NUMBER	NOV. 19	SURVEY COI	PY USED	SURVEY NUM	ABER D	ATE(S)	SURVEY	COPY USED
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11-3300	Sept/00	COL REGIST	ereu	•				
5. FINAL JUNCTIONS								
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NOAA FORM 76-36C (3-72)	TP-00068 HISTORY OF FIELD		U. S. DEPARTME NIG AND ATMOSPHERIC NATIONA	NT OF CO ADMINIST AL OCEAN	TRATION
I. ["X] FIELD MERECEMEN OPE	Photo	D EDIT OPERATION			
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1. CHIEF OF FIELD PARTY		R. Melby		197	
	RECOVERED BY	R. Melby		Jan.	
2. HORIZONTAL CONTROL	ESTABLISHED BY	None			
	PRE-MARKED OR IDENTIFIED BY	R. Melby		Jan.	1978
	RECOVERED BY	None			
3. VERTICAL CONTROL	ESTABLISHED BY	None			 ,
	PRE-MARKED OR IDENTIFIED BY	None		===	·····
	ECOVERED (Triangulation Stations) BY	None	· · · · · · · · · · · · · · · · · · ·	 -	
4. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	None			
	TYPE OF INVESTIGATION	None			· · · · · · · · · · · · · · · · · · ·
	COMPLETE	Į.			
5. GEOGRAPHIC NAMES INVESTIGATION	SPECIFIC NAMES ONLY				
	XX NO INVESTIGATION				
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None			
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None N.A.			
II. SOURCE DATA	SORVETED OR IDENTITIES ST	1 11.77.			
1. HORIZONTAL CONTROL IDE	NTIFIED	2. VERTICAL CO	NTROL IDENTIFIED		
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РНОТО NUMBER	STATION NAME	PHOTO NUMBER	STATION DESI	GNATION	
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None LANDMARKS AND AIDS TO N					
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5. GEOGRAPHIC NAMES:	REPORT NONE	6. BOUNDARY AN	D LIMITS: REPOR	T 🔯 N	IONE
7. SUPPLEMENTAL MAPS AND None					
	etch books, etc. DO NOT tist data submit id 1 - Field Operations Re	_	ivision)		

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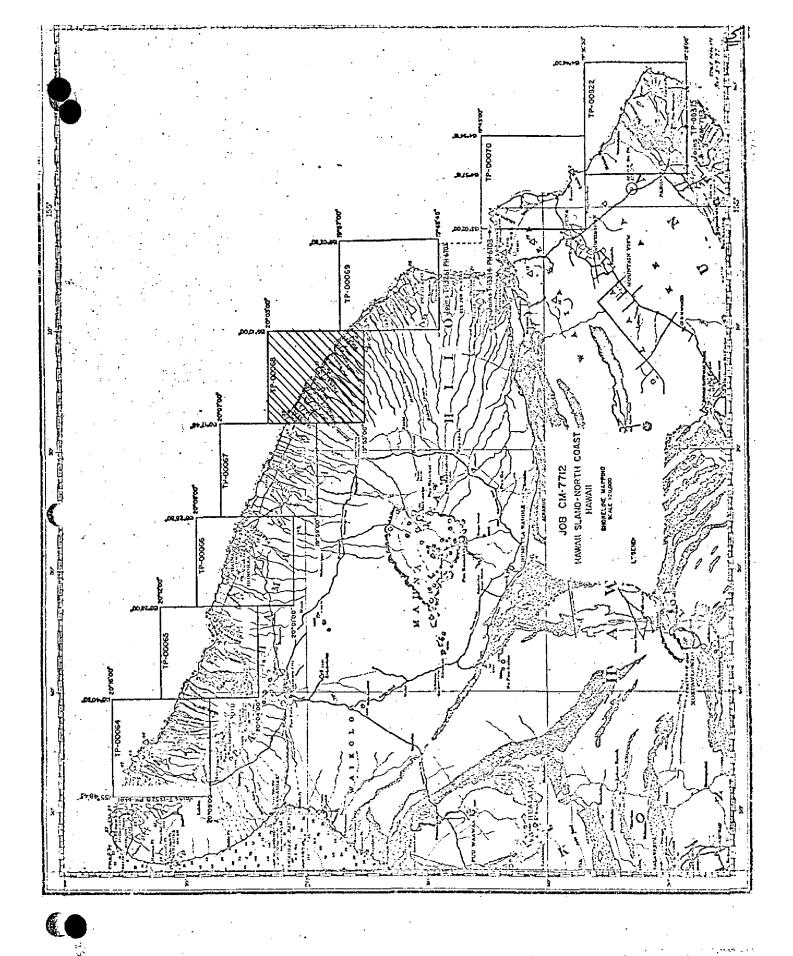
NOAA FORM 76—36C 3—72)	TP+00068 History of field	NATIONAL OCEANIC AS	U, S. DEPARTMEI ND ATMOSPHERIC NATIONA	ADMINIST	FRATIO
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OPE	RATION	NAME		DA	TE
1. CHIEF OF FIELD PARTY	·	R. Land		Nav	1001
	RECOVERED BY	D. Kruth		Dec.	<u>1981</u> 1981
2. HORIZONTAL CONTROL	ESTABLISHED BY	D. Kruth		Dec.	1981
	PRE-MARKED OR IDENTIFIED BY	None		<u> </u>	100
	RECOVERED BY	D. Kruth		Dec.	1981
NERTICAL CONTROL	ESTABLISHED BY	None			
	PRE-MARKED OR IDENTIFIED BY	None			
RE	COVERED (Triangulation Stations) BY	D. Kruth		Dec.	198
LANDMARKS AND	LOCATED (Field Methods) BY	D, Kruth		Dec.	198
AIDS TO NAVIGATION	IDENTIFIED BY	None		i	
	TYPE OF INVESTIGATION				
5. GEOGRAPHIC NAMES	COMPLETE				
INVESTIGATION	XX SPECIFIC NAMES ONLY	J. Gordon		Nov.	1981
	NO INVESTIGATION				
, PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	J. Gordon		Nov.	1981
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None			
I. SOURCE DATA		 			
I. HORIZONTAL CONTROL IDEI	NTIF(ED	2. VERTICAL CONTROL	IDENTIFIED		
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3. PHOTO NUMBERS (Clarification 76' GSAASY 569 (Ration 1)	0)				
None					
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S. GEOGRAPHIC NAMES: [7. SUPPLEMENTAL MAPS AND F	REPORT XX NONE	6. BOUNDARY AND LIMI	TS: REPOR	√ £⊠ τ	IONE
	tch books, etc. DO NOT list data submit	ted to the Geodesy Division	<u> </u>		
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NOAA FORM 76-36D (3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
TP-00068

RECORD OF SURVEY USE

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Final Re	eview	Aug. 1985	Final Ma	p		ver. 01, 1	100		
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II. LANDMAR	RKS AND AIDS TO NAVIGA	TION							
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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00068

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 northern coast of Hawaii Island from Long. 155°10'00" to Long. 155°17'45".

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 July 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-9986 by NOAA Ship RAINIER personnel in November 1981.

Application of field edit data was accomplished at the Photogrammetric Section, Pacific Marine Center in October 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 the contemporary hydrographic survey, H-9986, common to this map. Another

TP-00068

survey, H-10052, corresponds to portions 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-00068

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.



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:

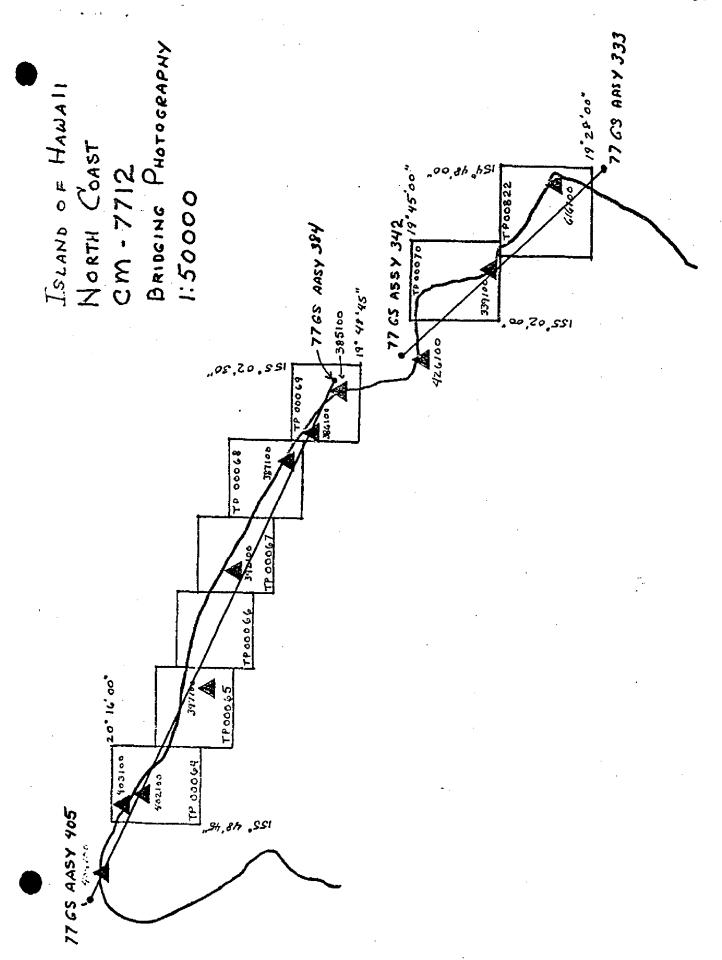
Don O. Norman

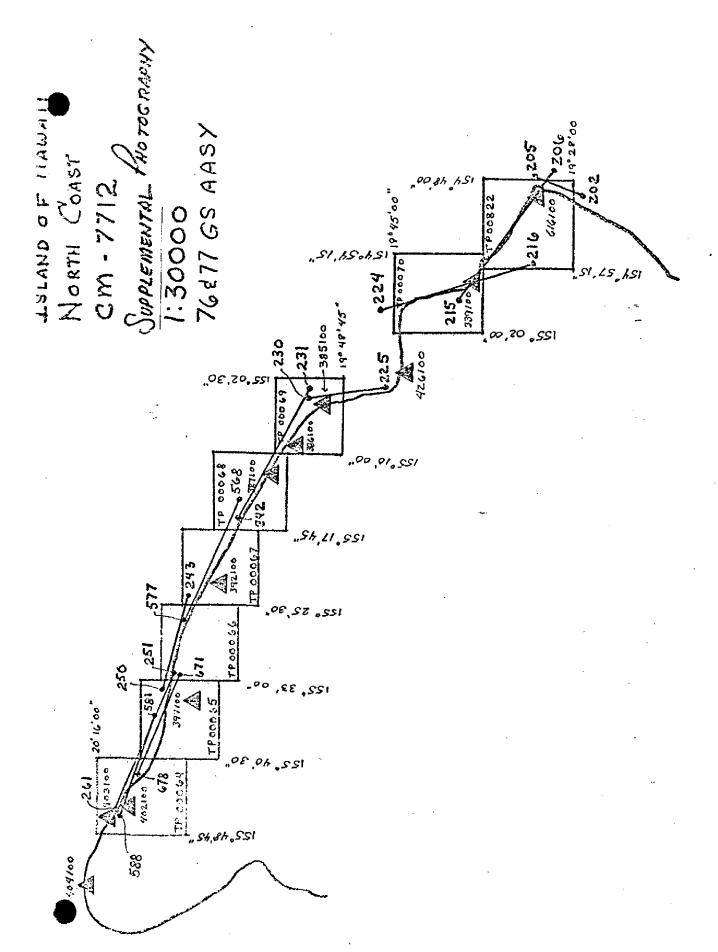
Don O. Norman

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 (-0.8	- 3.0 - 4.0 }
3 86100	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.	(-/6.3	+79)
▲387101	PUU OHAI, 1877 sub point	(-1.5	<i>+3.4</i>)
3 9 2141	PAAUILO STACK, 1948	(+ 8.4	-46)
▲ 392101 392102	OPIHILALA, 1948 sub point A sub point B	(+6.2 (+4.6	+3.6) +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 (-10.4	- 2.6) - 2.3)
▲402100	NIULII, 1913	(-0.7	-5.6)
403100	KAUHOLA POINT LT., 1948	(+ 3.5	- 6.8)
403141	HIND STACK, 1948	(-//.3	+0.1)
403401	KOHALA MILL STACK, 1948	(+ 2.0	- 4.4)
404141	CATHOLIC CHURCH WEST CROSS ON BELFRY, 1948	(- 40	+4.6)
404101 ▲ 404102	KEALAHEWA 2, 1948 sub point A sub point B	(+3./ (+/.0	+2.3) +3.9)
405141	LORAN A, TOWER, 1964	(-1.5	+10.4)
405142	LORAN C, TOWER, 1964	(-4.1	+8.1)





NOAA FORM 76-41 (6-75)				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	. DEPARTMENT OF TMOSPHERIC ADM	F COMMERCE
		DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD			
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY		
TP-00068 ~	CM-7712	_	01d Hawaiian	Coastal Mapping	Div.,	AMC /
STATION NAME	SOURCE OF	AEROTRI- ANGULATION	COORDINATES IN FEET STATE Hawaii	GEOGRAPHIC POSITION	REMARKS	ıks
		POINT NUMBER			Front	Back
		l .	x= 605,733.24	φ 19°56'43.694"×	1343.6/	501.4
PUU OHAI, 1877/	191551	387100 <	y≈ 403,966.06′	λ 155°11'31.694"	921.6	823.1
ТАПРАНОЕНОЕ	Preliminary		<i>≈</i> χ	Φ 19°59'48.37485"	1487.5	357.5
POINT LIGHT, 1981 /	Adjusted Position		<i>y</i> ≈	λ 155°14'35.94538"<	1044.9~	699.3
OOKALA MICROWAVE	Preliminary	,	-χ	φ 20°00'4.27891"×	131.6	1713.4
1981	Adjusted / Position	!	=h	λ 155°16'48.51557"×	1410.3~	333.8
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COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE	
LISTED BY		DATE	LISTING CHECKED BY David	Butler	DATE May 2]	1982
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY			
		SUPERSEDES NO	ERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	H IS OBSOLETE.		

COMPILATION REPORT

TP-00068

31 - DELINEATION

Delineation was by instrument method using the Wild B-8 stereoplotter and I:50,000 scale photographs; and by graphic methods using 1:30,000 hydro-support photographs. The quality and coverage of the photographs was 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 this project. Drainage was delineated by the Wild B-8 stereoplotter and by office stereoscopic interpretation of the ratioed photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated by the Wild B-8 stereo-plotter and by office inspection of the ratioed photographs. The MHWL was delineated, in part, graphically from the ratioed photographs and, in part, by the Wild B-8 stereoplotter.

36 - OFFSHORE DETAILS

There were no unusual problems.

37 - LANDMARKS AND AIDS

There were no charted landmarks and only one charted aid within the mapping limits of this manuscript. The aid could not be located photogrammetrically.

TP-00068

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 2 U.S.G.S. quadrangle maps: Kukaiau, HA, and Papaaloa, HA, both at scale 1:24,000 and dated 1957 and 1966, respectively.

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:

L. Williams

Cartographic Technician

Date: May 31, 1979

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

TP-00068 CM-7712

FIELD EDIT

The Field editor failed to submit any height data on the seven rocks compiled at Laupahoehoe Point. All of these are inshore of the breaker limit line.

The foul line was changed to "breakers" in order to remain consistent with project CM-7713, and the southern sheets in this project (TP-00069, TP-00070, and TP-00822) which were field edited in 1979 and 1980 respectively. The breakers are the result of surfaction caused by submerged rocks and ledge, and they are indicative of the entire east coast of the island of Hawaii. Both of the terms "foul" and "breakers" describe a similar condition which is hazardous to navigation, and this limit line is where the hydrographer ended his inshore sounding lines.

Submitted by:

David P. Butler, Cartographer

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7712 (Island of Hawaii - North Coast)

TP-00068

Ahoa Stream Ahole Stream Haakoa Stream Haiku Point Hawaii (island) Huliilii Stream Kaaheiki Stream Kaalau Stream Kaawalii Stream Kaiaakea Point Kaiwilahilahi Stream Kapehu Stream Kihalani Stream Kilau Stream Kuku Point Kukui Village Kulanakii Stream Kuwaikahi Stream Laupahoehoe

Laupahoehoe Point Laupahoehoe Stream Manoloa Stream Manowaiopae Stream Maulua Bay Maulua Stream Milo Village Nahiwa Point Ninole Niu Village Ookala Pacific Ocean Pahale Stream Papaaloa Pohakupuka Stream Poupou Stream Waikolu Stream Waipunalei Stream Weloka

Approved:

Charles E. Harrington

Chief Geographer

Nautical Charting Division

FIELD EDIT REPORT

OPR-T126-RA-81

TP-00068

CM-7712

HAWAII ISLAND

NORTHEAST COAST HAWAII

NOVEMBER 24 - NOVEMBER 30, 1981

METHOD

Field edit operations on TP-00068 began on November 24, 1981 (JD 328) and ended on November 30, 1981 (JD 334). Greenwich Mean Time was used to reference shoreline features.

Violet ink was used on the master film ozalid for verifying features and for answering questions. Red ink was used to show changes made to the ozalid by the field editor. Green ink was used to show items deleted.

The mode of travel for this T-sheet was by helicopter. Stream locations were verified by direct examination of the Quad Sheets, T-sheet, and photographs.

This field edit survey complied with Chapter 11, Manual of Coastal Mapping Field Procedures and the project instructions.

ADEQUACY AND COMPLETENESS

The manuscript, as amended by the field edit survey, is adequate and complete. The entire manuscript was field-edited.

GEOGRAPHIC NAMES

All names shown on the manuscript were the same that were used by the local people.

MANUSCRIPT ACCURACY

Direct visual comparison of the shoreline features with the discrepancy print and photos was the method of determining accuracy. Agreement was excellent except where noted.

RECOMMENDATIONS AND MISCELLANEOUS COMMENTS

The foul line depicted on the manuscript was found to be accurate except where noted on the T-sheet. An attempt was made by the field editor to draw an accurate surf line on the paper ozalid, but it was soon found, due to changing sea conditions, that the line varied too much from one day to the next for charting purposes.

Ookala Microwave Tower, a new landmark, was field located.
This corrected manuscript should supercede all previous shoreline compilations.

Submitted by,

for James R. Gordon LTJG. NOAA Approved and Forwarded,

Ratph J. Land CDR, NOAA

Commanding

REVIEW REPORT TP-00068

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: Kukaiau, Hawaii; dated 1957 Papaaloa, Hawaii; dated 1966.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A portion of two contemporary hydrographic surveys, H-9986 and H-10052, are common to this final shoreline map. A comparison was made with a registered copy of H-9986, RA 20-7-81, 1:20,000 scale, field surveyed Nov. 1981 and Sept./Oct. 1982. Survey H-10052 is currently unregistered and consequently a comparison was not made.

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-00068

Submitted by,

Jerry L. Hancock Final Reviewer

Approved for forwarding,

Belly H. Barnes

Billy H. Barnes Chief, Photogrammetric Section, AMC

Approved,

Chief, Photogrammetric Section, Rockville

Chief, Photogrammetry Branch

Rockville

NOAA FORM 76-40				144	# 300 A NO	U.S.	DEPARTM	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567	m 567. NONFLOATING AIDS	TING AIL	S	_	FOR CHARTS	RTS			HYDROGRAPHIC PARTY GEODETIC PARTY PHOTO FIELD PARTY	4RTY TX
TO BE CHARTED		,	STATE		LOCALITY			DATE	COMPLATION ACTIVITY	IVITY
TO BE DELETED	<pre>Photogrammetric Branch P.M.C., Seattle, WA</pre>	Branch WA	Hawaii'		Hawaii	- North Coast	Coast	May 1982	QUALITY CONTROL & REVIEW GRP	CREVIEW GRP.
The following objects	ects HAVE X HAVE NOT	been inspected from		ward to det	seaward to determine their value as landmarks	value as la	andmarks.		(See reverse for responsible personnel)	ible personnel)
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	TO FOR THE STATE OF THE STATE O			LATITUDE		LONGITUDE	UDE			AFFECTED
CHARTING (Re	Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in perentheses)	k or sid to n eapplicable	svigation.		// D.M. Meters	,	// D.P. Meters	OFFICE	FIELD	
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	RESPONSIBLE PERSONNEL	PERSONNEL	
TYPE OF ACTION	NAME	E	ORIGINATOR
			M PHOTO FIELD PARTY KX HYDROGRAPHIC PARTY
OBJECTS INSPECTED FROM SEAWARD	Ralph J. Land, CDR, NOAA		GEODETIC PARTY OTHER (Specify)
	David J. Kruth, LTJG, NOAA		FIELD ACTIVITY REPRESENTATIVE
	David P. Butler, Cartographer	her	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES			REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,	OR ENTRIES UNDER METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS	CATED OBJECTS	FIELD (Cont'd) B. Photogrammetric fie	Cont'd) Photogrammetric field positions** require
דו כבר ויו	e (including month, otograph used to bject.	entry of date of date of terms use	entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
DETERMI plicable	NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually	th and AT	ON STATION RECOVERED mark or aid which is also a tri-station is recovered, enter 'Triang. date of recovery.
t t	Field identified Theodolite	EXAMPLE: Triang. Rec. 8-12-75	•
tion 7 - n 8 -	Planetable Sextant	<u></u>	UALLY ON PHOTOGRAPH
sitions*	require entry of method of e of field work.	EXAMPLE: V-Vis. 8-12-75	
EXAMPLE: F-2-6-L 8-12-75		entirely, or in part, upon control establishe	IC FIELD POSITIONS are dependent
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	are determined by field obser- ntirely upon ground survey methods.		ds.

NOAA FORM 76-40 (8-74)

75								
(8-74)	7		ZA7	IONAL OCEAN	C AND ATMOS	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	HYDROGRAPHIC PARTY	CTIVILY
Replaces C&GS Form 567	Form 567.	LAND	MARKS	LANDWARKS FOR CHARTS	2		GEODETIC PARTY	
TTO BE CHARTED		STATE		LOCALITY		DATE	COMPLIATION ACTIVITY	
TO BE DELETED	١	Branch WAHawaii		Hawaii -	North Coast	1st May 1982	QUALITY CONTROL & REVIEW GRP	S REVIEW GRP.
The following objects	HAVE X HAVE NOT	pected from se	vard to det	ermine their vo	olve as landm	orks.	(See reverse for responsible personnel)	ible personnel)
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	RESPONSIBLE PERSONNEL	RSONNEL	
TYPE OF ACTION	NAME		ORIGINATOR
			[X] HYDROGRAPHIC PARTY
OBJECTS NSPECTED FROM SEAWARD	Ralph J. Land, CDR, NOAA		GEODETIC PARTY OTHER (Specity)
DOSITIONS DETERMINED AND JOB VERIFIED	David J. Kruth, LTJG, NOAA		FIELD ACTIVITY REPRESENTATIVE
	David P. Butler, Cartographer	•	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	THOD AND DATE OF LOCATION'	
	(Consult Photogrammetric Instructions No. 64,	Instructions No. 64,	
OFFICE IDENTIFIED AND IDEATED OR FECTS		FIELD (Cont'd)	mmetric field positions** require
Enter the number and date (including month,	e (including month,		method of location or verification,
day, and year) of the photograph used to	otograph used to	date of field work	date of field work and number of the photo-
identify and locate the bject	ubject.	graph used to locat	te or identify the object.

75E(C)6042

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

Vis – Visuallý

Verified Located

Triangulation 5 - Field identified6 - Theodolite

Theodolite

Traverse

Planetable

Resection Intersection Sextant

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

EXAMPLE: F-2-6-L

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. P-8-V

8-12-75 74L(c)2982

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

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

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

NOAA FORM 76-40 (8-74)

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

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00068 (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
			Full Part Before After Verification Review Inspection Signed Vis
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