AAQN	FORM (3-76)		5
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U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Map No.	Edition No.
TP-00718	1
Job No.	
CM-7215	
Map Classification Fina	1
Field E	dited Map
Type of Survey	, 4 ₂ -
Shore	line
LOC	ALITY
State	
Haw	aii
General Locality	
Kaneohe Bay.	Oahu Island
Locality	
Kuglog Po	int
19 75	TO 19 76
REGISTRY I	N ARCHIVES
DATE	

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

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY	TP- <u>00718</u>
The state of the s	☑ ORIGINAL	MAP EDITI	ON NO. (1)
DESCRIPTIVE PERCENT DATA DESCRIP	RESURVEY	.,,	
DESCRIPTIVE REPORT - DATA RECORD	-	MAP CLASS	•
	REVISED	10B	-нС <u>М</u> -7215
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDIT	TION
Coastal Mapping Division Atlantic Marine Center, Norfolk, VA	TYPE OF SURVEY		ч
OFFICER-IN-CHARGE	ORIGINAL RESURVEY	MAP CLASS SURVEY D	ATES.
	REVISED	19TO 19	
Jeffrey G. Carlen, Cdr.	<u> </u>		
I. INSTRUCTIONS DATED	;		
1. OFFICE	2.	FIELD	
Aerotriangulation 10/06/75	Premarking	4/16/73	
Compilation 1/07/76	Premarking	- J	
	Supplement I	8/18/75	
II. DATUMS	<u></u>		
1. HORIZONTAL: 1927 NORTH AMERICAN	OTHER (Specify)		
1. HORIZONTAL: 1927 NORTH AMERICAN	Old Hawaiian	<u>Datum</u>	
MEAN HIGH WATER	OTHER (Specify)		
2. VERTICAL: MEAN LOW-WATER X MEAN LOWER LOW-WATER			
MEAN SEA LEVEL			
3. MAP PROJECTION	4.	GR(D(S)	
	STATE	ZONE	
Transverse Mercator	STATE	7045	
1:10,000	Hawaii	ZONE	3
III. HISTORY OF OFFICE OPERATIONS	IICWGI I	<u> </u>	
OPERATIONS	NAME		DATE
1. AEROTRIANGULATION BY	R. Kelly		Dec 1975
METHOD: Analytic LANDMARKS AND AIDS BY			ļ
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY	Solbeck		Dec 1975
	Solbeck		Dec 1975 Jan 1976
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	Jim Byrd A. C. Rauck		Jan 1976
INSTRUMENT: Wild B-8 CONTOURS BY			
SCALE: 1:7,500 CHECKED BY	l NA		
	NA NA		
4. MANUSCRIPT DELINEATION PLANIMETRY BY	NA David Butler		Jan 1976
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY	NA David Butler L. O. Neterer,	Jr.	Jan 1976 Jan 1976
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth Draft CONTOURS BY	NA David Butler L. O. Neterer, NA	Jr.	
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4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	NA David Butler L. O. Neterer, NA NA David Butler L. O. Neterer, L. O. Neterer, C. Blood	Jr.	Jan 1976 Jan 1976 Jan 1976 Jan 1976 Aug 1976
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4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY 6. APPLICATION OF FIELD EDIT DATA CHECKED BY 7. COMPILATION SECTION REVIEW BY	NA David Butler L. O. Neterer, NA NA David Butler L. O. Neterer, L. O. Neterer, C. Blood A. L. Shands A. L. Shands	Jr.	Jan 1976 Jan 1976 Jan 1976 Jan 1976 Aug 1976 Aug 1976 Aug 1976
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY 6. APPLICATION OF FIELD EDIT DATA CHECKED BY	NA David Butler L. O. Neterer, NA NA David Butler L. O. Neterer, L. O. Neterer, C. Blood A. L. Shands A. L. Shands	Jr.	Jan 1976 Jan 1976 Jan 1976 Jan 1976 Aug 1976 Aug 1976 Aug 1976 Apr 1978
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY 6. APPLICATION OF FIELD EDIT DATA CHECKED BY 7. COMPILATION SECTION REVIEW BY	NA David Butler L. O. Neterer, NA NA David Butler L. O. Neterer, L. O. Neterer, C. Blood A. L. Shands A. L. Shands	Jr.	Jan 1976 Jan 1976 Jan 1976 Jan 1976 Aug 1976 Aug 1976 Aug 1976

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•		COM	TP-00	0718 N SOU	RCES		""	TIONAL	CEAN SURVET
1. COMPILATION PHOTO	GRAPHY		-						
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75TNHY 3784(P) -			10:1		1:15,000	I		above	
75TNHY 3848(P) 8	3850(P)	1/28/75	11:13	3	1:30,000	0.	2 ft.	above	MLLW
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None comp	Tied								
									
4. CONTEMPORARY HY	DROGRAPHIC	C SURVEYS (List o	only those s	urveys th	at are sources	for photogram	nmetric :	survey inf	ormation.)
SURVEY NUMBER D	ATE(S)	SURVEY CO	Y USED	SURVE	YNUMBER	DATE(S)		SURVEY	COPY USED
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5. FINAL JUNCTIONS	EA	QT .		SOUTH			WEST		
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No Survey REMARKS		No Survey		<u> </u>	11-00/19	· 	1	110 00	
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NOAA FORM 76-36C (3-72)	TP-00718 History of Field		U.S. DEPARTMENT OF COMMERC ND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVE
I. X FIELD INSPECTIO	ON OPERATION FIEL	D EDIT OPERATION	<u> </u>
	OPERATION	NAME	DATE
1. CHIEF OF FIELD PA	PTV		
T. CHIEF OF FIELD PA		R. Melby	Sept 19
A HARITANTA CONT	RECOVERED BY	R. Melby	Sept_19
2. HORIZONTAL CONTI	ROL ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None	2 . 10:
	RECOVERED BY	R. Melhy	Sept 19
3. VERTICAL CONTROL		NA NA	
	PRE-MARKED OR IDENTIFIED BY	NA NA	
	RECOVERED (Triangulation Stations) BY	None	
4. LANDMARKS AND	LOCATED (Field Methods) BY	None	
AIDS TO NAVIGATIO	N IDENTIFIED BY	None	
	TYPE OF INVESTIGATION	ſ	
5. GEOGRAPHIC NAMES	BY	1	
INVESTIGATION	SPECIFIC NAMES ONLY		
	NO INVESTIGATION		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None None	
7. BOUNDARIES AND L	MITS SURVEYED OR IDENTIFIED BY	<u> </u>	
II. SOURCE DATA 1. HORIZONTAL CONTE	ROL IDENTIFIED	2. VERTICAL CONTROL	IDENTIFIED
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PHOTO NUMBER	STATION NAME	NA PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (C	larification of details)		
None 4. LANDMARKS AND AI	DS TO NAVIGATION IDENTIFIED	·	
None PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAME: 7. SUPPLEMENTAL MA		6. BOUNDARY AND LIM	ITS: REPORT X NONE
None	RDS (Sketch books, etc. DO NOT list date submi	tted to the Goodson Dintston	
1 Form 76-53	2 forms 526 (copies)	THE GOODSY DIVISION	v

NOAA FORM 76—36C (3—72)	TP-0071		U. S. DEPARTMENT AND ATMOSPHERIC A NATIONAL	OF COMMER DMINISTRATI OCEAN SURV
	HISTORY OF FIELD		<u></u>	
I. TIELD INSPECTION OPE	RATION	D EDIT OPERATION		
01	PERATION	NAM	IÉ	DATE
1. CHIEF OF FIELD PARTY	•	C. Town	send	3 - 4/76
	RECOVERED BY	None		2 4/ 10
2. HORIZONTAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED BY	NA		
3. VERTICAL CONTROL	ESTABLISHED BY	NA		
	PRE-MARKED OR IDENTIFIED BY	NA		
	RECOVERED (Triangulation Stations) BY	None		
4. LANDMARKS AND	LOCATED (Field Methods) BY	None		
AIDS TO NAVIGATION	IDENTIFIED BY	None		
	TYPE OF INVESTIGATION			
5. GEOGRAPHIC NAMES	COMPLETE BY			
INVESTIGATION	SPECIFIC NAMES ONLY			
	NO INVESTIGATION	<u> </u>		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	J. Osbo	rn	<u>3-4/76</u>
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA NA		
II. SOURCE DATA		10		
1. HORIZONTAL CONTROL ID	ENTIFIED	2. VERTICAL CONTR	OL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGN	A TION
3. PHOTO NUMBERS (Clarifica	tion of details)			
75TNHY(P) 3291 th	ru 3295, 3784 and 3785			
4. LANDMARKS AND AIDS TO	NAVIGATION IDENTIFIED			
None				
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAM	1E
5. GEOGRAPHIC NAMES:	REPORT X NONE	6. BOUNDARY AND L	IMITS: TREPORT	X NONE
7. SUPPLEMENTAL MAPS AND		1	C. KEFORT	<u>LAI 1131142</u>
None				
	ketch books, etc. DO NOT list data submit	ted to the Good Di	ion)	
1 Form 76-40	ort OPR-419-RA-76	icu to the Geodesy Divis	ion <i>j</i>	



NOAA FORM 76-36D

(3-72)

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

TP-00718 RECORD OF SURVEY USE

I. MANUSCRI	PT COPIES					·	
	COL	PILATION STAGE	s			DATE MANUSCR	IPT FORWARDED
DA	TA COMPILED	DATE	RE	MARKS		MARINE CHARTS	HYDRO SUPPORT
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II. LANDMAR	RKS AND AIDS TO NAVIGA	TION					
1. REPOR	TS TO MARINE CHART DI	VISION, NAUTICAL	DATA BRANCH				
NUMBER	CHART LETTER	DATE			REMA	ARKS	
	NUMBER ASSIGNED	FORWARDED	<u> </u>				
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	PORT TO MARINE CHART						
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III. FEVERA	L RECORDS CENTER DAT	^					
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4. 🔲 D	ATA TO FEDERAL RECOR	DS CENTER. DAT	E FORWARDED:				- -
IV. SURVEY	EDITIONS (This section s)			pedition is re			
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SECOND	TP -			ļ	∐ RE\		SURVEY
EDITION	DATE OF PHOTOGRAPH	Y DATE OF F	ELD EDIT	<u> </u>		MAP CLASS	_
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FOURTH	TP	(4) PH -			REV		SORVÉY
	DATE OF PHOTOGRAPH		ELD EDIT		·	MAP CLASS	ſ
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		215 Stano	mme	
		JOB CM-7215 KANEOHE BAY, OAHU ISLAND HAWAII SHORTINE MAPPING SCALE HOLOGO	LICENS: A remaining contra status EVISED 11-28-75 Full state of the	A A B O R.
		NA NATIONAL PROPERTY OF THE PR	REWISED	

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS

TP-00718 THROUGH TP-00720

The maps included in this summary comprise all of Project CM-7215, Kaneohe Bay, Oahu Island, Hawaii. Each is a 1:10,000 scale standard shore—line map, the purpose of which is to provide shoreline and alongshore data in support of hydrographic operations and for nautical chart compilation.

The area covered is that of Kaneohe Bay extending from just below Mahie Point on the north southward to and including the Mokapu Peninsula. This project originally consisted of nine 1:5,000 scale maps (TP-00718 through TP-00727) covering about the same area. All instructions and correspondence dealing with map scale make reference to the 1:5,000 scale maps with the exception of the compilation instructions. The compilation instructions make reference only to the three 1:10,000 scale maps TP-00718 through TP-00720. These are the only maps compiled for the project.

Apparently, it was decided around November, 1975 to cancell all 1:5,000 scale maps in the project and replace them with 1:10,000 scale maps. Documents authorizing this change, however, are not available to this reviewer at this time.

Field work prior to compilation was limited to the recovery and identification of horizontal control necessary for bridging. It was begun under orders dated April 16, 1973. However, the photography obtained at that time was not suitable for compilation. This part of the job was redone in September, 1975.

Photography was flown by a private contractor in December, 1975 and January, 1976. It was flown with panchromatic film at 1:15,000 and 1:30,000 scale. Goverage was not extended to allow the delineation of the southern shoreline of Kailua Bay. The quality was excellent.

Bridging was done at the Washington Science Center in December, 1975. All maps were compiled at the Atlantic Marine Center using the Wild B-8 stereoplotter.

Field edit was performed in March, 1976 and applied to the maps in September, 1976 at the Atlantic Marine Center. Final Review also took place at the Atlantic Marine Center in April, 1978.

The original base map and all pertinent data is forwarded to the Washington Science Center for reproduction and final registration.

FIELD INSPECTION

TP-00718

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

/ Photogrammetric Plot Report Kaneohe Bay, Oahu Island, Hawaii / Job CM-7215 December, 1975

- 21. Area Covered: This report covers three 1:10,000 sheets, TP-00718, TP-00719, and TP-00720 of Kaneohe Bay, Oahu Island, Hawaii.
- 22. Method: Three strips of I:30,000 photography and one strip of I:15,000 photography were bridged by analytic aerotriangulation methods and adjusted to ground on the Hawaii State Plane Coordinate System, Zone three. The attached two sketches shows the placement of horizontal control, bridging photographs, and photographs to be used for compilation. Bridge points were drilled on the I:15,000 scale photography and measured on I:30,000 scale bridging photography for ratioing photographs to be used in compilation. Ratios were ordered and sheets were plotted on the Coradomat.
- 23. Adequacy of Control: The horizontal control provided was adequate except for Pahu, 1910 home station which could not be seen. All other control held within the accuracy required by National Standards of Map Accuracy at 1:10,000.
- 24. <u>Supplemental Data</u>: Local shoreline and U.S. Geological Survey quadrangles were used to provide elevations for vertical adjustments of bridges.
- 25. <u>Photography</u>: RC-8 black-and-white film positives were adequate as to coverage, overlap, and definition.

Submitted by,

Robert B. Kelly

Approved and forwarded:

John D. Perrow, Jr.

Chief, Aerotriangulation Section

NOAA FORM 76-41 (6-75)		DESCRIPTIV	SCRIPTIVE REPORT CONTROL RECORD		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	Division AMC
TP_00718	CM-7215	15	Old Hawaii	¥ }	Livision, Ía
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	(ladex)	POINT NUMBER			Forward Back
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	753110 6-10		=χ	φ 21 31 15.40522	473.8 (1371.5)
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	04 011573		<i>-</i> χ		1710.4 (134.9)
STATE SURVEY 4-29, 1969	Quad 2113/3	•	<i>ή=</i>	λ 157 51 16.02464	461.3 (1265.8)
	P. 59		-χ	φ 21 31 32,31	993.7 (851.6)
LARGE CHIMNEY	Geo. Pos. and Disc		<i>y</i> =	λ 157 50 17.19	494.7 (1232.0)
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COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY A. C. Rauck, Jr.	•	1/06/76	ز	Shands	DATE 1/07/76
Joned	_ <u> </u>	DATE 1/08/76	HAND PLOTTING CHECKED BY D	D. Butler	DATE 1/08/76
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.	

COMPILATION REPORT

TP-00718

31. <u>DELINEATION</u>:

Delineation was by the Wild B-8 stereoplotter, using 1:15,000 scale photograph. Photograph coverage and quality was adequate. 1:30,000 scale ratios were used to help compile reef lines (graphically).

32. CONTROL:

See Photogrammetric Plot Report dated December, 1975.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS. AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline and all alongshore details were delineated by office interpretation of the photographs.

36. OFFSHORE DETAILS:

No unusual problems, except for vast coral reef areas which were compiled graphically.

37. LANDMARKS AND AIDS:

Appropriate copies of Form 76-40, Landmarks and Nonfloating Aids to Navigation, were forwarded to the field editor for verification, deletion and additions.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See the Form 76-36B, Item #5 of this Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No Statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS Quadrangle KANEOHE, HAWAII, scale 1:24,000, dated 1968; and KAHANA, HAWAII, scale 1:24,000, dated 1967.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with Chart No. 19359, scale 1:15,000, dated September 28, 1974, 6th edition.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Allant C. Rauck J. For David P. Butler Cartographic Aid January 23, 1976

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7215 (Kaneohe Bay, Hawaii)

TP-00718

Kaaawa

Kualoa Point

Kaaawa Point

Kuloa Point

Kaaawa Stream

Mokolii Island (Chinamans Hat)

Kaneohe Bay

Molii Pond

Kaoio Point

Waikane

Approved by:

Charles E. Harrington, C3x8 Chief Geographer

NOAA FORM 75-74			U	S. DEPARTMENT OF COMMERCE		
PHOTOGRAMMETRIC OFFICE REVIEW NATIONAL OCEA						
TP - 00718						
1. PROJECTION AND GRIDS	12. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE		
I. PROJECTION AND GRIDS	2. 11166		S. MANUSCRIFT NUMBERS	4. MANUSCRIPT SIZE		
ACR	DA.	er	ACR	ACR		
CONTROL STATIONS	·					
5. HORIZONTAL CONTROL ST. THIRD-ORDER OR HIGHER A	ATIONS OF CCURACY	6. RECOVERAGE OF LESS TH	BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS		
ACR		(Topographic	NA	. NA		
8. BENCH MARKS	7. PLOTTING OF FIXES	OF SEXTANT	10, PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS		
NA.	AI	S	ACR	LON		
ALONGSHORE AREAS (Nautical						
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES		
LON	AI	S	LON	NA		
16. AIDS TO NAVIGATION	17. LANDMARK	s	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES		
ALS	LC)N ·	LON	LON		
PHYSICAL FEATURES	· ·		 -			
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS		
LON			NA	NA		
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26 OTHER PHYSICAL FEATURES		
NA	N.A		NA	LON		
CULTURAL FEATURES			•			
27. ROADS	28. BUILDINGS		29. RAILROADS	-30. OTHER CULTURAL FEATURES		
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L. O. Neterer, Jr.	Jr.	1/28/76	Albert C. Rauck,			
41. REMARKS (See attached shee	16)	· · · · · · · · · · · · · · · · · · ·				
FIELD COMPLETION ADDITION		IONS TO THE M	ANUSCRIP T			
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COMPILER C. Blood	CBfood	8/04/76	SUPERVISOR JA PO	unh O		
Reviewer A. L. Sha	nds	8/19/76	Albert C. Rauck,	Jr. Jr		
Reviewer A. L. Shands 8/19/76 Albert C. Rauck, Jr. 43. REMARKS See Field Edit's Form 76-36C, Item 8, for sources of field edit data.						

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey FIELD EDIT: KANEOHE BAY Job No. CM 7215 Map No. Classification No. Edition No.
LOCALITY HAWAII
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General Locality OAHU Locality KANEOHE BAY
19 ⁷⁶ TO 1976
REGISTRY IN ARCHIVES

± U.S. GOVERNMENT PRINTING OFFICE: 1972-760-898

FIELD EDIT: KANEOHE BAY

OPR-419-RA-76

MANUSCRIPT NO. TP-00718-00720

CHARLES K. TOWNSEND CDR., NOAA COMMANDING OFFICER

INTRODUCTION AND METHODS

Field Edit for the RAINIER's spring project, OPR-419-RA-76 began March 1st and was completed April 15, 1976. Normally only one field unit performed field edit but on occasion, early in the project, two field units operated simultaneously. The field edit was accomplished by walking, driving GSA vehicles, and in RAINIER skiffs. Field edit is complete and thorough for the three manuscripts that cover Kaneohe Bay.

Field Edit operations began first in south Kaneohe Bay area on T-Sheet TP-00720 in order to facilitate commencement of hydrographic operations there. Simultaneous with these operations, field edit was begun at the southern edge of T-Sheet TP-00718 and moved northward to completion. After completing the initial photogrammetric support for hydrography on TP-00720, field edit progressed on this sheet around Mokapu Peninsula to the limits of the manuscript. Finally, the field work at the junction of TP-00720 & TP-00719 was undertaken and this work moved north to the junction with TP-00718. Questions from the Master Field Edit Sheets requiring geodetic locations were accomplished on all T-Sheets at the outset of the field edit.

All deletions, additions, and corrections to the final shoreline manuscript appear on the Master Field Edit Sheets and on the processed cronapaque photographs. The Master Field Edit Sheets are indices of all field edit work carried out. All discrepancies and questions listed on the Master Field Edit Sheet and film and paper ozalids are completely and thoroughly answered on the Master. Proper references are included. Special violet ink field notes on the Master Field Sheets are items that were verified by field edit. In addition, the photo number is given as a reference. Special red ink was used to indicate changes or additions found during field edit and have position and location references. Finally, those field notes inked in green are deletions. References, where needed, are included. All notes on the Master Field Edit Sheets which are identified on the cronapaque photographs, include the description, height (if a rock) and the photo number on which they were located. All Field Edit information on the smooth boatsheets for H-9593 and H-9594 which were verified by field edit was inked in black, while changes or additions were inked in special red. Unverified items would have been inked in blue, however, verification is complete for all manuscripts and blue was not used

For a reference of photographs-T-Sheet Manuscripts, refer to "Separates Following the Text". Height data on rocks was estimated to plus or minus 1/2 foot and on bluffs and cliffs to plus or minus 10 feet. Times were referenced to 0° Longitude.

ADEQUACY OF COMPILATION

The compilation of the Manuscripts were adequate and complete. Compilation of the MHWL was generally very good. The MLLWL was compiled, wherever physically possible, by hydrographic Survey Operations and is not discussed in this text. There were numerous discrepancies, other than scale difference distortion, between the photo compiled T-Sheets and the 1:15,000 existing chart of Kaneohe Bay (NOS 19359; C&GS 4134). Except as noted on pages three(3)& five(5) T-Sheets were compiled correctly, with only minor changes verified by field edit. All rocks offshore, and inshore features are labeled and/or discussed on the Master Field Edit Sheet, and wherever possible, verified on the photographs.

Kaneohe Bay has numerous coral reefs both awash, submerged, and exposed. The obtain accurate and detailed depth delineation of these many shoal areas visual walk hydro crews obtained numerous detached pole soundings throughout these areas.

Quality and contrast of the reefs on the cronapaque photographs is excellent and was compared against actual reef conditions during field edit and against the hydrographic data. Some revisions to reef outlines and conditions were made, and are noted and referenced on the Master Field Edit Sheets. A combination of both photograph interpretation and hydrographic survey information is necessary for complete and adequate delineation of the shoal areas. For further information on survey operations, refer to Descriptive Reports, H-9593 and H-9594.

SHORELINE SUMMARIES

TP-00718: Field edit by LTJG Andreen commenced at the junction of TP-00718 and TP-00719 at latitude 21° 29' 30" N, progressed northward to the manuscript limits at latitude 21° 33' 40" N, and is complete. The shoreline compilation is generally excellant, with only very minor revisions directly north and south of latitude 21° 30' 30", and the left tip of Kualoa Point.

The dams in the Molii Pond are verified as being constructed of rock, rip-rap, and small boulders. This area is in the process of becoming a wildlife refuge to adjoin the state park at Kualoa Point.

A small foul area was investigated off the central tip of Kualoa Point. It is small and the surrounding water is shallow, thus this area is not a serious hazard to navigation. The rock off shore, located at approximately 21° 30′ 30″ N, 157° 50′ 15″ W, was searched for and not found photogrametrically but the hydrographer did locate this rock. The recommendation is for retension of the rock as shown in the hydrographic records.

The MHWL for Mokolii Island was compared visually with the photograph # 3291 and found accurate. The pipe charted at approximately 21° 31' 15" N, 157° 50' 05" W, was search for by the field editor and not found. Heavy surf in this region hampered the investigation process. A change to the hydrographic instructions put this outside the hydrographic projected area and therefore it was not searched for by the hydrographer. It is recommended that

the pipe be retained in its present location.

The region of piers and rip-rap beach between Latitudes 21° 31' 15" and 21° 32' 00" was inaccurately compiled. The shoreline is correct, however in the lower portion of this latitude span, the piers are in actuality rock groins extending approximately 8 feet out from the MHWL. The upper portion of this latitude span shows no discrepancies in either shoreline compilation or foreshore characteristics, thus no field notes were necessary. Finally the tanks in question, charted at approximate latitude and longitude 21° 32' 40" N, 157° 51' 15" W were searched for thoroughly and not found. Delegation is recommended.

The coral reef lines showed generally good agreement in manuscript compilation and visual verification in the field. For further information on reef delineation, refer to DESCRIPTIVE REPORT: H-9594, OPR-419-RA-76.

All non-floating aids to navigation and landmarks for charts have been thoroughly researched and answered for this manuscript. Refer to "Separates Following the Text" for Form 76-40's.

TP-00719: Shoreline verification for this manuscript was begun by ENS OSBORN and Mr. MELBY at its junction with TP-00720 at approximate Latitude 21° 24' 53" N and proceeded northwesterly to the junction with TP-00718. Inshore work was carried out in conjunction with the shoreline edit. Field Edit is complete for this manuscript.

Two small islands not previously compiled or charted were discovered at these approximate positions: 1) 21° 24′ 50″ N, 157° 47′ 05″ W, and 2) 21° 25′ 40″N, 157° 47′ 40″ W. A minor revision of the MHWL is also noted at this first position. The islands are very small earthen masses with sparse grassy growth.

Seven concrete pilings that bare 3 feet were discovered on either side of the pier that serves the shuttling students to Moku-O-Loe-Island (21° 25' 55" N, 157° 47' 42" W). These piles are a potential hazard to mariners unfamilar with this region. A small inlet located on the southwestern tip of Moku-O-Loe Island was verified to exist. It was not previously compiled on the T-Sheet or charted. Two additional cement blocks at approximate position 21° 25' 50" N, 157° 48' 20" W that were not compiled were verified, and should be added to the one presently shown on the T-Sheet. Compilation on the concrete footings was verified. The masts no longer exist on these footings.

A 25 foot bluff was verified at the seaward tip of Kealohi Point. It is rocky in nature with grassy growth extending downward. This bluff is of landmark value to small boaters in the near vicinity. Also note Kaneohe Fishing Pier, just to the northeast of Kealohi Point, at approximiate location 21° 26' 50" N, 157° 48' 45" W, is now called Heeia Kea Small Boat Harbor. For further information refer to Coast Pilot Report: Kaneohe Bay, OPR-419-RA-76.

Fixed platform ruins were discovered on both sides of the

small boat channel which is cut or dredged through coral reef at approximate position 21° 27' 25" N, 157° 49' 40" W. These fixed ruins appear from their location to mark the channel. Their fixed nature warrants charting, and they can be used as an aids to navigation in this area.

The "T" shaped object at the far northern tip of Kahaluu Landing is in actuality a sea wall that has been filled, land-scaped, and has a boat landing and covered storage added on its western side. The whole structure is a major portion of a large estate on the point. A small earth filled and landscaped circular seawall that can be interpreted as an island was located and verified 20 meters to the west of the tip of the "T".

A large foul area, within the limits of the main shoreline reef, was verified at approximate location, 21° 28' 34" N,
157° 50' 45" W. There are numerous small rocks baring, awash,
and submerged within the limits defined on the Master Field Edit
Sheet. An acceptable number were photo identified, and form an
outline for the foul area. Further to the northeast, along the
shoreline, a rocky region awash was verified seaward from a point
of land just to the right of a stream outflow, at approximate
position 21° 29' 15" N, 157° 50' 45" W.. This presents a hazard
to small boat navigators who presently moor a short distance up
the stream. Small skiffs were observed tied up in the stream,
but none were seen to actually make the transit past the rocky
region awash.

The Master Field Edit Sheet position of Ahu-O-Laka Island, 21° 28' 19" N, 157° 49' 10" W, is grossly inaccurate. Three point sextant fixes were taken at high tide at the water line of Ahu-O-Laka and another island off the tip of the Kaneohe Marine Corps Air Station runway. Geographic positions were computed for each sextant fix. Ahu-O-Laka is actually two small sand islands at high water and is situated in the center of a large sandy reef area. The region between the two portions of island is submerged 1 to 2 feet at high tide. The island near the MCAS runway does not cover as extensive an area as is shown on the Master Field Edit Sheet or on the existing chart. Representative 3 point sextant fixes were also taken on Kapapa Island to verify its geographic position and that of the ledge on the western tip of the island. For further information refer to the Master Sheet and to the "Separates Following the Text".

All Aero Obstructions Lights as well as other non-floating aids to navigation and landmarks that required information as per instructions in the notes to the field editor have been completely answered. Refer to the Master Field Edit Sheet and to the "Separates Following the Text" for position information and Form 76-40's. For a more detailed discussion of survey methods used for location, Horizontal Control Report: Kaneohe Bay, OPR-419-RA-76, can be referenced.

On TP-00719 as on TP-00718, the reef delineation showed good agreement when manuscript and photography were compared.

For further information on the coral reef survey methods used for delineation, refer to Descriptive Reports: H-9593 and H-9594, OPR-419-RA-76.

TP-00720: Shoreline verification began by ENS OSBORN and Mr. MELBY at the tip of the Kaneohe MCAS runway. First priority was to finish the inside bay shore to the junction with TP-00719. Once this was accomplished, field edit continued around the northern shoreline past Pyramid Rock and around Mokapu Point, then southward to the manuscript limits in Kailua Bay at approximate position 21° 25' 25" N, 157° 44' 48" W. Field edit is complete on this manuscript.

The mooring pier at Kaneohe Bay Yacht Club at Latitude 21° 25' 15" N, 157° 46' 15" W is back with earth that is grown over. The MHWL was verified along this pier and is noted on the Master Field Edit Sheet. It should be charted as shown.

Two small islands that previously were not charted or compiled were verified to exist along the eastern shore of the inner bay region. The approximate locations are 1) 21° 25' 28", 157° 46' 04" W and 2) 21° 25' 14" N, 157° 46' 05" W. Both are earth in composition with small mangrove growths. They should not however be considered as mangrove islands.

A small boat wreck was discovered and verified in the small bay that comprises the Marine Corps Air Station Marina, at approximately 21° 26′ 35″ N, 157° 45′ 52″ W. It is in very shallow water and appears to be no serious danger to navigation in the Marina. It should however, be charted for completeness.

The waters north of Pali Kilo are an extremely heavy surf zone. Boat investigations here were inconclusive due to the areas inaccessability. The region was visually inspected from the shoreline south of Pyramid Rock where the height gave a good vantage point. A breaker and foul area was outlined from this vantage point. The region is extremely foul with submerged rocks and boulders. It should be charted as such. This area is a definitely a dangerous area for all vessel traffic. Survey operations could not be undertaken due to its foul and dangerous nature.

All the shoreline surrounding Ulupau Crater is foul with ledges baring and awash plus regions of beach and rock shoreline. Specific rocks in the entire region were adequately searched for and either not found or not photographically identified. It is recommended that the ledges identified on the Master Field Edit Sheet and cronapaque photographs be charted and that specific rocks be retained. It is believed that they are portions of the ledges that extend the highest above the waterline.

A sewer outfall is under construction on the eastern shore of the Mokapu Pennisula at approximate position 21° 27' 12" N, 157° 43' 40"W. For final information on its position for charting purposes contact LT Robert Braddock, Assistant Public works Officer, Kaneohe, M.C.A.S., Phone 808-257-2521. The outfall will be of definite landmark value for both large and

All non-floating aids to navigation and landmarks for charts have been thoroughly researched and answered for this manuscript. For further information, refer to the Master Field Edit Index and the "Separates Following the Text". Reference the Horizontal Control Report; Kaneohe Bay, OPR-419-RA-76, for a discussion of the geodetic surveying techniques used for location of aids and landmarks.

Except for a small discrepancy at approximate position 21° 26' 15"N, 157° 45' 37"W that is noted on the Master Field Edit Sheet and referenced photograph, the coral reef delineation shows good agreement with actual field observations. For further reef information, reference Descriptive Report: H-9593, OPR-419-RA-76.

ADDITIONAL INFORMATION

Visual Hydrography and photo located signals were a necessary part i of the Kaneohe Bay portion of OPR-419-RA-76 to obtain adequate reef delineation in regions too shallow for electronic survey craft.

Separate film ozalids for photogrammetrically located signals have been submitted. Information contained on the ozalids are: the number of the signal on the Master List, the photographs used for each ray transfered, and a reference to the "Separates Following the Text", PHOTO SIGNAL COMPUTATIONS. Field computations such as: the meters forward and backward that were scaled, conversion to seconds, and latitude and longitude computations will be found in these separates. Signal locations are listed on the Master Field Edit Sheet, and referenced to the Photo Signal Film Ozalid.

DATA PROCESSING

Position information for the Ahu-O-Laka, Runway, and Kapapa Island location was logged in visual hydrographic format and punched on paper tape. Geographic positions were computed using the ships PDP8/e computer. Data being submitted include visual master and corrector tapes for automated plotting, printouts of the tapes, and printouts of the geographic position computations for each 3 point sextant fix taken. A list of computer programs used follows:

RK 300 UTILITY COMPUTATIONS

Version 2/10/76

AM 602 "ELINORE" (EXTENDED LINE ORIENTED EDITOR)
Version 5/22/76

RECOMMENDATIONS

Hydrographic survey data must be used in conjunction with photographic analysis to obtain coral reef delineation. "Walk Hydro" was done over each reef to obtain sounding coverage, and

electronic survey vessels circled and transversed reefs to the extent that was permitted by safety. Coupling the two information sources will not only give excellent delineation but will facilitate the development of adequate depth curves along the steeply sloping sides: of the reefs.

Photograph quality was generally very good. Clarity and contrast facilitated good identification for shoreline verification and photo identification of visual signals. Coverage was lacking in some areas however. Excessive area gaps between certain photograph pairs forced six(6) visual signals to be located with only two positioning rays. There were three areas where lacking coverage existed. The first which has already been discussed earlier in this report was the lack of photo coverage for the islands in central Kaneohe Bay. The second was the North-South shoreline on TP-00718. A change in Hydrographic Project Instruction's project limits eliminated the need for photo picked signals in this area. Signals 310 and 316 were picked on the upper limits of TP-00719 using only two rays and they form the boundary of onother region of limited coverage. When photo picking with two rays, every attempt was made to locate signals that were easily identifiable and provided strong intersection for the positioning rays. This was accomplished in all cases. However, it is recommended that either future photographs taken be provided for field work, especially, where photo identified signals are going to be used for hydrography.

Respectfully_submitted:

John C. Osborn Jr.

ENS., NOAA

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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.

REVIEW REPORT TP-00718

SHORELINE

April 12, 1978

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

The reef line shown on the map is not the limit of the reef visible on the photographs. It does mark that portion of the reef which is dangerously shoal and shoreward of the breaker line visible on the photographs.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not Applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

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64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of Final Verified Smoothsheet H-9594 (RA-10-2.-76). There are no significant differences.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 19359, 1:15,000 scale, 6th edition dated September 28, 1974.

A pipe shown on the map about 3/4 mile north of Kualoa Point was positioned and identified in the compilation model. There is no field confirmation of its position or existence. The pipe shown on the chart is 800 ft. west of the map position. The source of the charted position should be examined in determining which position should be carried forward.

Placement of the charted shoreline differs significantly from that shown on the map from Kualoa Point to Waikane and Mokolii Island.

Four small piers charted south of Molii Pond are not visible on the photographs.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

See Summary, page 6 of this Descriptive Report.

Submitted by:

Q. L. Schand

A. L. Shands Final Reviewer

Approved for forwarding

Bill H. Barne

Jeffrey G. Carlen, Cdr.

Chief, Coastal Mapping Division, AMC

Approved:

Bell H. Barn-Chief, Photogrammetric Branch John Devrawy,

mmetric Branch Fief, Coastal Mapping Division