

NOAA FORM 76-35 (3-76)

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

DESCRIPTIVE REPORT

Map No.

T-12559

Job No.

PH-6402

Map Classification

FINAL FIELD EDITED MAP

Type of Survey

SHORELINE

LOCALITY

State

HAWAII

General Locality HAWAII ISLAND, WEST COAST

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY 14 1-12559
	☑ ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS FINAL
שמששמו מומש בת המוא המוז ומשששש	REVISED	лов Рн - <u>6402</u>
PHOTOGRAMMETRIC OFFICE		
Coastal Mapping Div.		ING MAP EDITION
Atlantic Marine Center, Norfolk, VA	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	ORIGINAL RESURVEY	MAP CLASS SURVEY DATES:
P. Waterwalder	REVISED	19 TO 19
R. Matsushige		
1. OFFICE	2.	FIELD
Compilation Oct. 28, 1969	Control/fleid insp	ection May 8, 1964
Amendment I Jan. 3, 1973		
Memo Sept. 1, 1978		
Compilation (CM-7713) Jan. 23, 1978		
Compliation (on 1715) dan. 23, 1770	,	
II. DATUMS		
II. DATUMS	OTHER (Specify)	
I. HORIZONTAL: 1927 NORTH AMERICAN	Old Hawaiian	
MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:		
MEAN LOWER LOW-WATER	•	
3. MAP PROJECTION		
WAR PROJECTION	STATE	GRID(S)
Transverse Mercator	Hawaii	1
5. SCALE	STATE	ZONE
1:10,000		
OPERATIONS	NAME	DATE
I. AEROTRIANGULATION BY	R. Fisher	May 1978_
METHOD: Analytic Landmarks and aids by	K. IISHEI	
2. CONTROL AND BRIDGE POINTS PLOTTED BY	S. Solbeck	May 1978
METHOD: Coradomat CHECKED BY	S. Solbeck	May 1978
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	D. Butler	Sept1978
COMPILATION CHECKED BY	A. Rauck	Sept1978
INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:10,000 CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	N.A. R. Kravitz	Oct.1978
CHECKED BY	F. Margiotta	Oct.1978
CONTOURS BY	N.A.	
METHOD: Smooth drafted	N.A.	
HYDRO SUPPORT DATA BY	R. Kravitz	Oct. 1978
1:10,000 CHECKED BY	F. Margiotta	Oct. 1978
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	F. Margiotta	Oct. 1978
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	L. Williams R. Kravitz	June 1980 June 1980
7. COMPILATION SECTION REVIEW BY	R. Kravitz	June 1980
8. FINAL REVIEW BY	J. Hancock	May 1987
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Hancock	June 1987
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	FADADGHER	Aug 1987
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	M. L. MAING HERE	36 SOM CM

	NOAA FORM 76-36B (3-72)			NATIONAL OCEA	U. S. DEPARTM	ENT OF COMMERCE
	T-12559 NATIONAL OCEAN SURVEY					
	COMPILATION SOURCES					
	1. COMPILATION PHOTOGRAPHY					
	CAMERA(S) Wild R.C. 8-"S", S	=152.29mm		HOTOGRAPHY GEND	TIME REI	FERENCE
	TIDE STAGE REFERENCE		(C) COLOR		zone Hawaii	Xstandard.
	REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAP		(P) PANCHRO		MERIDIAN 150th	DAYLIGHT
	NUMBER AND TYPE	DATE	TIME	SCALE	STAGE	OF TIDE
	635(P) 7962-7964 *	Δ110, 31, 1963	09:31	1:30.000	1.1FT. above	MLLW
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NOAA FORM 76-36 (3-72)	С		NATIONAL OCEA	NIG AND ATMOSPHERIO	
		T-12559 HISTORY OF FIELD	OPERATIONS	NATIONA	AL OCEAN SURVEY
1. X FIELD INSP	ECTION O		D EDIT OPERATION		<u> </u>
		OPERATION			DATE
1 6 4 5 5 5 5		9, 2, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	 		FebSept.
1. CHIEF OF FIEL	LD PARTY		R. Newsom		1964
_	_	RECOVERED BY	E. Cline		July 1964
2. HORIZONTAL C	CONTROL	ESTABLISHED BY	E. Cline		July 1964
		PRE-MARKED OR IDENTIFIED BY	E. Cline		July 1964
		RECOVERED BY	None	·	
3. VERTICAL CON	NTROL	ESTABLISHED BY	None:	·	
		PRE-MARKED OR IDENTIFIED BY	None		
		RECOVERED (Triangulation Stations) BY	_None		
4. LANDMARKS AT AIDS TO NAVIG		LOCATED (Field Methods) BY	None		<u> </u>
		IDENTIFIED BY	None	. <u> </u>	
		TYPE OF INVESTIGATION	,		1
5. GEOGRAPHIC N		COMPLETE BY			
INVESTIGATION	N	SPECIFIC NAMES ONLY			
		NO INVESTIGATION	ļ		ļ
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	E. Cline		ļ
7. BOUNDARIES A		SURVEYED OR IDENTIFIED BY	<u>N.A.</u>		<u> </u>
II. SOURCE DATA			0 115071511 001	TDA: INCUESTION	
I. HORIZONTAL C	CONTROL	IDENTIFIED	2, VERTICAL CON	ITROL IDENTIFIED	
			None		
PHOTO NUMBER		ST A TION. NAME	PHOTO NUMBER	STATION DES	IGN A TION
	}		}		
63(S)7853*	Tank,	, 1949 (Direct & Sub.Pt.)			
63(S)7963*	Mahar	na, 1898 (Direct)	J j		
05(5)7505	Hanai	ia, 1050 (Bifect)			
	*Parti	lal Ratio Print	i		
3. PHOTO NUMBE					
S. FIIO O NOMBE	ins (Clarifi	cation of details)			
63S(P) 7963	(1:30,	,000 scale matte contact)			
4. LANDMARKS AL	ND AIDS T	NAVIGATION IDENTIFIED			
3.7					
None					<u> </u>
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECTI	NAME
]		
			1		
			}		
ļ]		
5. GEOGRAPHIC N		REPORT NONE	6. BOUNDARY AND	D LIMITS: REPOR	RT NONE
7. SUPPLEMENTA	L MAPS AI	NU PLANS			
None					
				<u> </u>	

NOAA FORM 76-36C (3-72)	T-12559	NATIONAL OC			
	HISTORY OF FIEL				
I. FIELD INSPECTI	ON OPERATION X FI	ELD EDIT OPERATIO	ON	···-	
	OPERATION		NAME		DATE
1. CHIEF OF FIELD PA	LRTY	(NOAA Ship W. Mobley	RAINIER)		ept./Oct. .979
	RECOVERED B	Y <u>J. Talbott</u>			ept. 1979
2. HORIZONTAL CONT	ROL ESTABLISHED B	Y <u>None</u>		<u>_</u> _	
	PRE-MARKED OR IDENTIFIED B	Y None			
	RECOVERED B	Y None			
. VERTICAL CONTRO	L ESTABLISHED B	Y <u>None</u>			
	PRE-MARKED OR IDENTIFIED B	Y None			
	RECOVERED (Triangulation Stations) B	v <u>None</u>			
LANDMARKS AND	LOCATED (Field Methods) B	v None			
AIDS TO NAVIGATIO	N IDENTIFIED B	v_None			
	TYPE OF INVESTIGATION		<u> </u>		
GEOGRAPHIC NAME	COMPLETE	J		ŀ	
INVESTIGATION	SPECIFIC NAMES ONLY	'		-	
	NO INVESTIGATION			1	
. PHOTO INSPECTION	CLARIFICATION OF DETAILS B	Y T. Clark			ct. 1979
. BOUNDARIES AND L	IMITS SURVEYED OR IDENTIFIED B	į.			1277
. SOURCE DATA				<u></u>	·
None	ROL IDENTIFIED	2. VERTICAL C	ONTROL IDEN	ITIFIED	
PHOTO NUMBER	STATION NAME	РНОТО NUMBE	R 51	ATION DESIGN	A TION
PHOTO NUMBERS (C	facification of details)				
	013-8016 (Cronapaque ratios,	1:10,000 sca	ıle)		
LANDMARKS AND AL	DS TO NAVIGATION IDENTIFIED				
None					
PHOTO NUMBER	OBJECT NAME	РНОТО NUMBE	R	OBJECT NAM	
5. GEOGRAPHIC NAME	S: REPORT TO NONE	6. BOUNDARY	AND LIMITS:	REPORT	₩ NONE
. SUPPLEMENTAL MA	PS AND PLANS				
None					
OTHER FIELD RECO	RDS (Sketch books, etc. DO NOT tist data sub	mitted to the Geodesv	Division)		
1 Field	edit film print, l Field edi edit report			form 76-4	0,

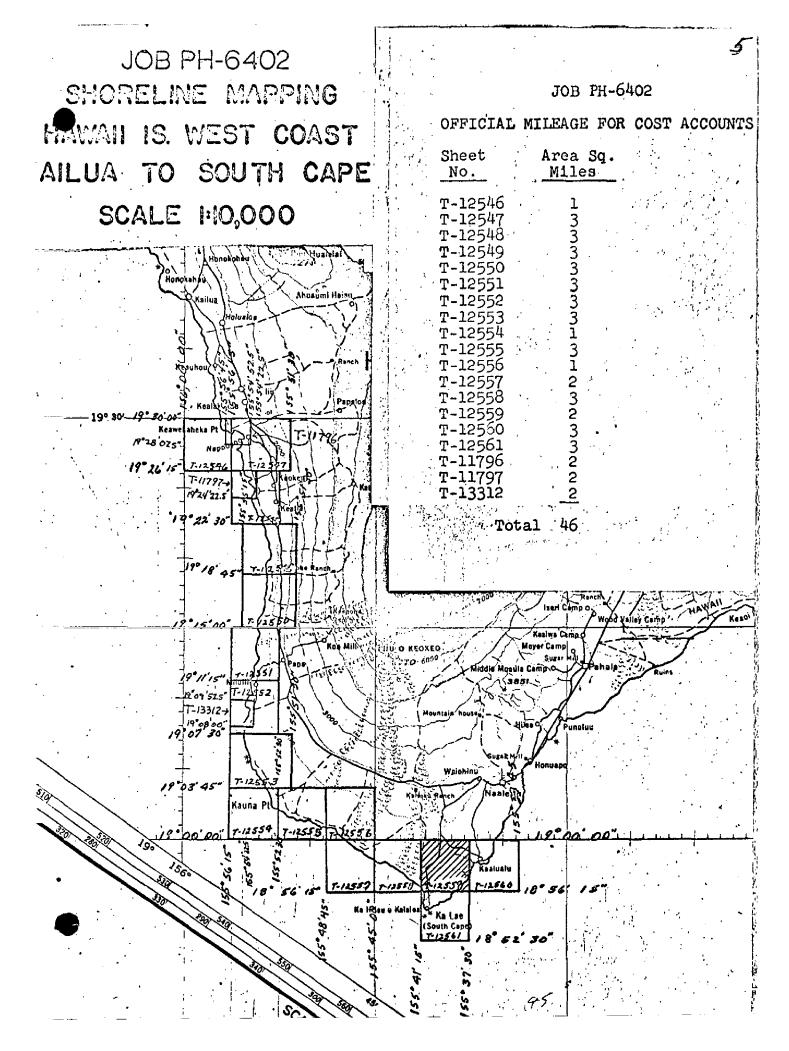
NOAA FORM 76-36D

(3-72)

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

T-12559 RECORD OF SURVEY USE

	RECORD OF SORVER COL									
I. MANUSCI	I. MANUSCRIPT COPIES									
	C0	MPILATION STAGE	s		DATE	DATE MANUSCRIPT FORWARDED				
<u>-</u>	ATA COMPILED	DATE	RE	MARKS	MARIN	E CHARTS	HYDRO SUPPORT			
	ation complete g field edit	Oct. 1978	Class II manuscript		Oct	. 1978	Oct. 1978			
	edit applied, ation complete	June 1980	Class I m	anuscript	Jun	e 1980	June 1980			
Final	review	May 1987	Final Mar)	ال ال	1987	Jaly 1987			
	RKS AND AIDS TO NAVIGA		DATA BRANCO		<u>.</u>	-				
76-40	RTS TO MARINE CHART DI		DATA BRANCH			-				
NUMBER NUMBER ASSIGNED FORWARDED REMARKS										
1		June 1980	Landmark	for charti	lng	<u> </u>				
					<u></u>					
					 ,,					
	EPORT TO MARINE CHART									
	EPORT TO AERONAUTICA AL RECORDS CENTER DAT		, AERONAUTICAI	L DATA SECTIO	N. DATE FO	RWARDED:	None			
III. FEDEK	AL RECORDS CENTER DAT	A								
1. XXI s	BRIDGING PHOTOGRAPHS;	X DUPLICATE	BRIDGING REPO	RT: CYLCOM	PUTER READ	OUTS				
	CONTROL STATION IDENTI			765490BMITTI						
	OURCE DATA (except for G						i			
- 1	ACCOUNT FOR EXCEPTION	IS:								
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	DATA TO FEDERAL RECO		<u>-</u>				- 			
IV. SURVE	FEDITIONS (This section s	hall be completed ea		p edition is regis		FSURVEY				
SECOND					TYPE O		SURVEY			
EDITION	DATE OF PHOTOGRAPH					CLASS				
				<u> </u>]nı. □ıv.		FINAL			
THIRD	SURVEY NUMBER	JOB NUMBER		r	TYPE O REVISED	FSURVEY	URVEY			
EDITION	DATE OF PHOTOGRAPH	(3) PH		ן '		CLASS	en i			
				Ü]jii. 🔲 iv.		FINAL			
	SURVEY NUMBER	JOB NUMBER			TYPE OF	SURVEY	ún vév			
FOURTH	DATE OF PHOTOGRAPH			j		CLASS	UKVEY			
EDITION				[]n. []ııı. □ıv.		FINAL			



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-12559

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

The purpose of this map was to furnish data in support of hydrographic operations and to provide current shoreline data for marine charts.

This map includes shoreline along the southern coast of Hawaii Island from Latitude 18° 56' 15" to Latitude 18° 58' 00".

Photo coverage for the project was adequately provided in August/September 1963 using the Wild RC-8 "S" camera. Photography consisted of 1:30,000 scale panchromatic photographs used for field inspection, aerotriangulation, and compilation. Color photographs at 1:15,000 scale were obtained for compilation and hydro support. Additional color photographs at 1:15,000 scale were obtained in March 1969 with the Wild RC-8 "E" camera. These supplemental photographs were used to compile inset maps T-11796 and T-11797. The stage of tide for all project photographs was based upon predicted tide data. No infrared photographs were provided.

Field work prior to aerotriangulation consisted of the recovery and establishment of horizontal control by photoidentification methods. A field inspection was performed for the project area utilizing the 1:30,000 scale contact photographs. This activity was conducted in February thru September 1964 in conjunction with the northern adjoining project PH-6401. Due to inadequate bridging results, additional horizontal control was established in January 1978 in conjunction with the southern adjoining project, CM-7713.

Analytic aerotriangulation was provided by the Washington Science Center in June 1969. Bridging results for maps T-12559 thru T-12561 could not be satisfactorily achieved. Consequently, the bridge for adjoining project CM-7713 was extended to include horizontal control for the three maps. Refer to the Photogrammetric Plot Report for CM-7713 dated May 10, 1978.

Compilation for this map was performed at the Coastal Mapping Section, Atlantic Marine Center in October 1978. Copies of the initial compilation and hydrographic support data were forwarded to the hydrographer for field edit.

Field edit was conducted in October 1979 by NOAA ship RAINIER personnel in conjunction with hydrographic surveys H-9853 and H-9854.

T-12559

Application of field edit was performed at the original compilation office in June 1980. Map copies were submitted to Marine Charts and to the hydrographer for smooth sheet application.

Final review was performed at the Atlantic Marine Center in May 1987. A comparison was made with the common hydrographic survey and nautical chart. The original base manuscript and related data along with a final Chart Maintenance Print and a Hydrographic Print were forwarded to the Washington Science Center for registration and distribution.

FIELD INSPECTION

T-12559

Field activity prior to compilation included a field inspection of the shoreline and the recovery/photoidentification of horizontal control necessary for project aerotriangulation. Results of the 1964 field inspection were submitted on the 1:30,000 scale contact photographs. Due to inadequate bridging results for maps T-12558 thru T-12561, additional horizontal control was established in January 1978 in conjunction with adjoining project CM-7713.

PORTA CO-121 (0-12-40)
(PRESS, BY A.O. 201-10)
UNITED STATES GOVERNMENT

U.S. DEPARTMENT OF COMMERCES COAST AND GEODETIC SURVEY

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631W

Memorandum

TO : Chief, Photogrammetric Field Operations

DATE: August 5, 1964

THRU : Honolulu Field Officer

FROM : Lt(jg) Edward P. Cline

SUBJECT: Control Identification Project No. 21413

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

FLIGHT STRIP NO. 5

WAIKAKUU,4, 1951 KAPUKAWAA, 1884 OHEPUUPUU, 1890

FLIGHT STRIP NO. 6

KAMOI, 1948

NA PUU a PELE, 1891

PUU KI, 1914

TANK, 1948

imental Station Pricks

Supplimental Station Pricked: KAUNA POINT LIGHT, 1949

FLIGHT STRIP NO. 7

KALAE 2, 1948
PALAHEMO 1898
KAMILO, 1898
KIPAEPAE, 1898

Supplimental Stations Pricked:

KALAE LIGHT, 1948 KALAE, 1887 MAHANA, 1898

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

Edward P. Cline

Photogrammetric Plot Report Hawaii Island, Hawaii PH-6402

June 10, 1969

21. Area Covered

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

22. Method

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

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

23. Adequacy of Control

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

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

- 2. KAMILO, 1949 and SS #1 3. KIPAEPAE, 1948 and SS #1. Problems with these two stations could not be resolved. Re-identification of the stations is planned at the same time that work continues to the east.
- 4. McCANDLESS, 1948 SS #1 and SS #2 although held in the bridging could be seen on only one photograph in Strip #10 due to cloud coverage.

24. Supplemental Data

Ratio prints will be provided to aid in compilation. Local USGS quads were used to provide vertical points needed for the strip adjustment program.

25. Photography

Photography was not adequate to provide coverage of the 1:5,000 scale sheets. This inadequate coverage was caused by a change in the limits of the 1:5,000 areas after bridging was nearing completion. Photography was adequate in regard to definition and overlap.

Submitted by,

John D. Perrow, Jr

Approved by,

Henry P. Eichert

Chief, Aerotriangulation Section

Notes to Compiler PH-6402 Hawaii Island, Hawaii

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

(1) 63-S-7964-7965

Points 68803, 68804, 67100, 67101, 64100, 64101, 64102 and 64103.

(2) <u>63-S-8080-8081</u>

Points 22330, 23310, 23800, 23801

(3) 63-S-8081-8082

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

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

Points 76331, 77331, 77333

(5) 63-S-8083-8084

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

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

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

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

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

PHOTOGRAMMETRIC PLOT REPORT HAWAII ISLAND-SOUTHEAST COAST CM-7713

May 10, 1978

Area Covered -

This project covers most of the southeast coast of Hawaii Island, Hawaii. The following T-sheets are involved:

TP-00375 thru TP-00380 (1:20,000) TP-00488 and TP-00489 (1:5,000)

In addition to the above T-sheets, T-12559 thru T-12561 at 1:10,000 scale from PH-6402 are also covered.

Method

Two strips of 1:50,000 (strips 1 and 2) and one strip of 1:30,000 (strip 4) panchromatic photography were bridged by analytic aerotriangulation methods.

Strip 4 was bridged solely to provide compilation points for 1:15,000 compilation photography covering TP-00488 and TP-00489.

Ties were made with strip 2 of CM-7712 on the north coast and strip 12 of PH-6402 located near the southern end of the island.

Ratio points for the offshore 1:30,000 scale strips 11 thru 18 were read on the 1:50,000 strips.

Strip 12, 1:30,000, of PH-6402 which would not adjust satisfactorily in 1969 for unknown reasons was rebridged using old horizontal control along with 1977 identified horizontal control and ties from the 1:50,000 strip 2 of the CM-7713 project.

Strips 2 and 4 of CM-7713 and strip 12 of PH-6402 adjusted satisfactorily. The 1964 subpoint for KAMILO (HTS) 1898 is believed to be in error and was disregarded.

Strip 1 of CM-7713 could not be adjusted to meet bridging accuracy standards for all stations. A problem is suspected with PULAMA 1914 but could not be resolved. The final adjustment to this strip was made letting PULAMA 1914 float and disregarding the error in y of about -25 feet at this station.

Ratio points for an offshore 1:15,000 color strip were read on Strip 12. (PH-6402)

T-sheets TP-00375 through TP-00380, TP-00488, TP-00489, and T-12559 through T-12561 were plotted and sent to AMC at Norfolk, Virginia.

Adequacy of Control

With the exception of a horizontal control problem in strip 1 the horizontal control was adequate.

Vertical control was obtained from shoreline points and USGS quadrangle elevations and was satisfactory.

Photography

The quality and location of the photography was satisfactory.

This photography was flown by American Aerial Survey, Inc., with a Zeiss RMK A 15/23 camera, lens serial number 118960.

Submitted by:

Robert E. Fisher

Approved and Forwarded:

Don O. Norman Acting Chief

Dond. How

Aerotriangulation Section

HORIZONTAL CONTROL FOR CM-7713

- 1 KALAE LIGHT 1948
- 1A | KALAE 2, 1948
- 1B KALAE 1887
- 2 PALAHEMO 1898
- X 3 MAHANA, 1898
 - 4 KAMILO (HTS) 1898
 - 5 STEIN 2 (HTS) 1949
 - 6 LUU 1930
 - 7 PUU ULAULA 1914
 - 8 HILINA USGS 1961
 - 9 PULAMA 1914
 - 10 KALIU 1949
 - 11 CAPE KUMUKAHI LIGHTHOUSE 1949

HORIZONTAL FIT TO CONTROL (FEET)

STRIP #1 (1:50,000)

6.	LUU	1930	4	
	SUB	PT.	, .	<i>;</i> , :`.
	** - 1/2 14	· Egg		4:42

(1.90, 0.26) (1.45, -1.00)

7. PUU ULAULA 1914

(-3.55, -0.98)

8. HILINA USGS 1961 SUB PT. A SUB PT. B

(5.34, -1.60) (1.67, 1.16)

9. PULAMA 1914 SUB PT. A SUB PT. B

(4.59, -23.68) (11.88, -28.72)

10. KALIU 1949 SUB PT.

(-2.05, -8.61) (0.03, -2.17)

STRIP #2 (1:50,000)

TA KALAE 2, 1948 SUB PT. A SUB PT. B

(-0.96, 0.23) (1.19, 0.95)

4. KAMILO (HTS) 1898 SUB PT.

(2.06, 0.58) (0.33, -0.11)

5. STEIN 2 (HTS) 1949 SUB PT.

(-1.26, -1.59) (2.42, 1.99)

6. LUU 1930 SUB PT.

(-0.07, 1.16) (-0.24, -0.47)

7. PUU ULAULA 1914

(0.23, -0.36)

STRIP #4 (1:30,000)

5. STEIN 2 (HTS) 1949 SUB PT.

(-0.01, -0.04) (0.11, 4.03)

6. LUU 1930

(0.00, 0.00)

7. PUU ULAULA 1914

(0.01, 0.01)

STRIP #12 (1:30,000)

4. KAMILO	(HTS)	1898	
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(4.01, -0.39)

3. MAHANA 1898

(1.48, 0.46)

2. PALAHEMO 1898

(2.64, -1.31)

1B. KALAE 1887

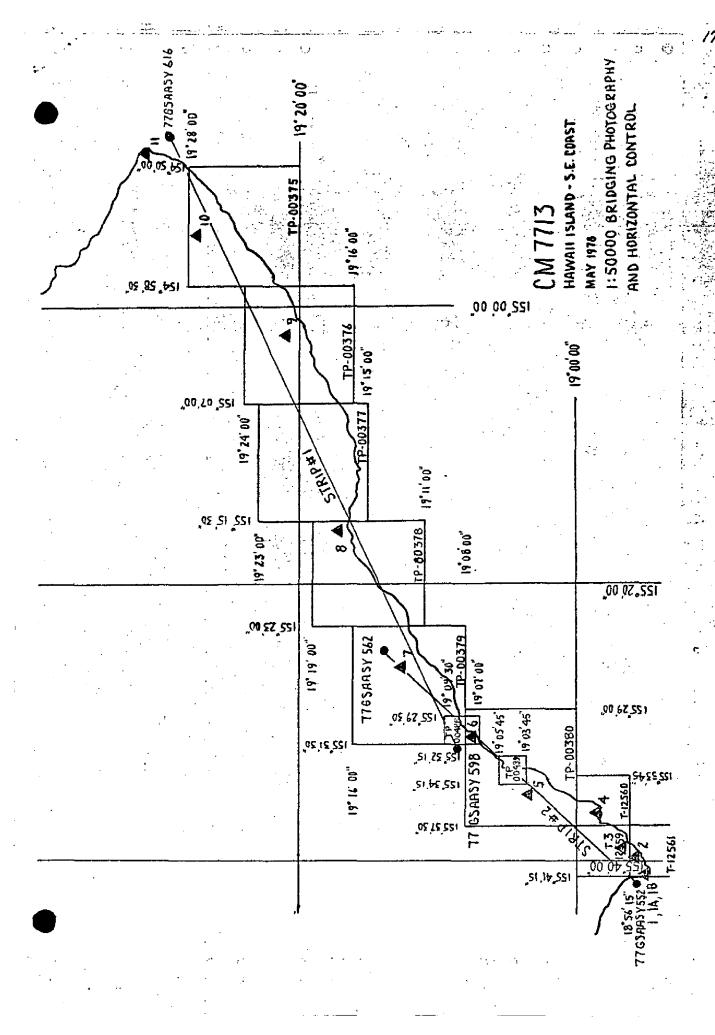
(0.36, -0.37)

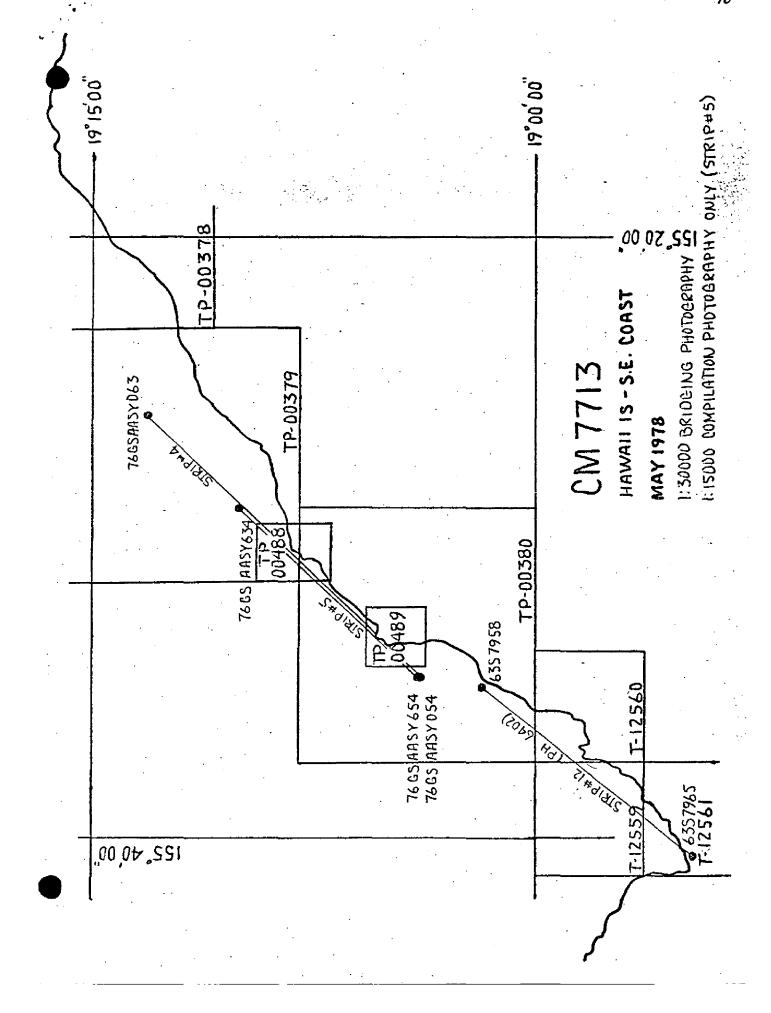
1A. KALAE 2, 1948 SUB PT.

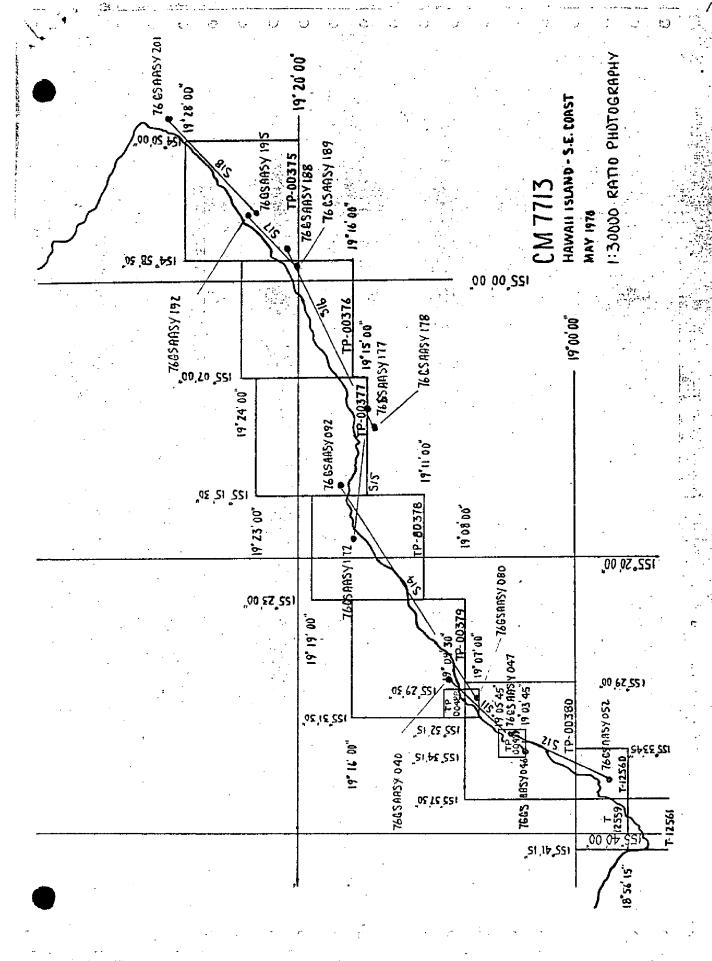
(2.30, 1.46)

1. KALAE LIGHT 1948

. (-0.16, -0.27)







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U.S. DEPARTMENT OF COMMERCE	r ng Section, AMC	REMARKS									DATE 9-13-78	DATE	
U.S. DE	GINATING ACTIVITY COASTAL MAPPING	TUDE STUDE	46.169" ~ 12.560" ~)5.502" /	.3.84" - Pl.82"-								
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T-12559

37. LANDMARKS AND AIDS:

One charted landmark was photogrammetrically positioned and the appropriate data was submitted for field edit.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

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

40. HORIZONTAL AND VERTICAL ACCURACY:

Refer to the Photogrammetric Plot Reports dated June 10, 1969 and May 10, 1978 (CM-7713).

46. COMPARISON WITH EXISTING MAPS:

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

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with NOS Chart 19320, 12th edition, scale 1:250,000, dated June 17, 1978.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Robert Kravitz

Gen 1. Hawel

Cartographic Technician

October 1978

Approved:

fa Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

T-12559

Field edit was conducted in September/October 1979 by NOAA ship RAINIER personnel in conjunction with hydrographic surveys H-9853 and H-9854. Adequate information was furnished to advance the manuscript to Class I.

GEOGRAPHIC NAMES FINAL NAME SHEET PH-6402 Hawaii T-12559

Island of Hawaii

Ka Lae o Hoaiku

Ka Lae Paakai

Mahana Bay

Pacific Ocean

Pchokinikini ----Not compiled

Puu Huluhula ----Not compiled

Puu Kcihala ----Not compiled

Puu Maemae ----Not compiled

Puu Maemae ----Not compiled

Puu Maemae -----Not compiled

Approved by:

A. Joseph Wraight Chief Geographer Prepared by:

Frank W. Pickett

Cartographic Technician

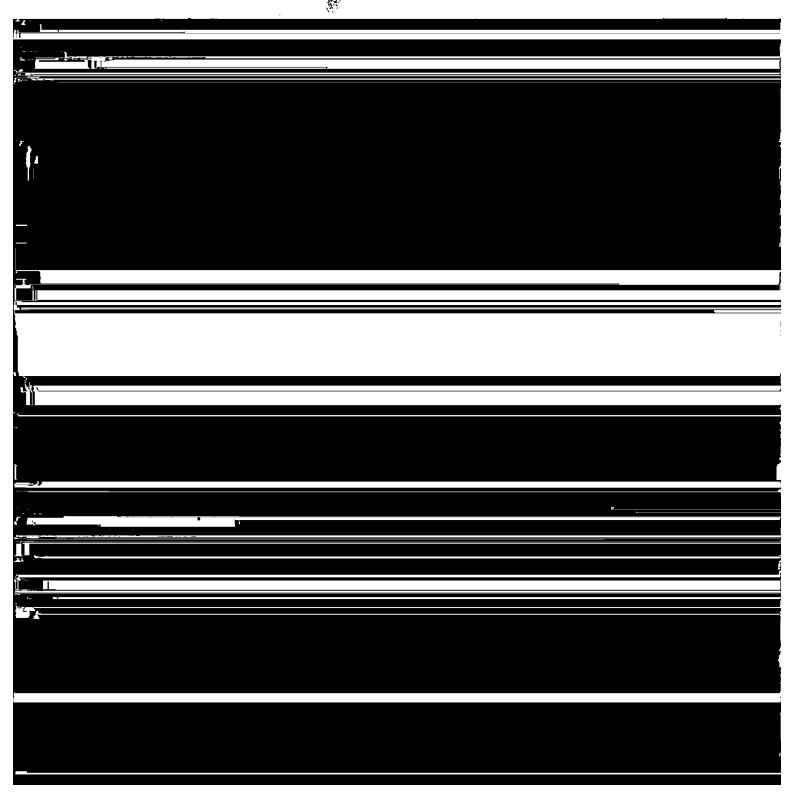
FIELD EDIT REPORT OPR-T126-RA-79 CM-7713 T-12559

HAWAII Hawaii, Southeast Coast Ka Lae O Hoaiky

1 Field Edit 27 September 1979 - 6 October 1979 (J.D. 270 - J.D. 279)

Methods

Field edit operations on T-12559 began 27. September 1979 (J.D. 270) and ended 6 October 1979 (J.D. 279). Ship's time (GMT-9) was used to reference shoreline features in the field, but conversion was made to GMT (Ship's time + 9) on the field edit sheet and final discrepancy print. Notes on the field edit sheet and discrepancy print were made using colors with the following accepted meanings: green-deletion of features; red-answers to specific questions on the sheets; vigitet-verification or additions.



Respectfully submitted, Approved and Forwarded Thomas & Clarke

REVIEW REPORT SHORELINE

T-12559

61. GENERAL STATEMENT:

Final review for this Final Field Edited Map was accomplished at the Atlantic Marine Center in May 1987. For a schedule of the office and field operations, refer to the Summary included with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS quadrangle Ka Lae, Hawaii, scale 1:24,000, dated 1962.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a registered copy of hydrographic surveys H-9853, RA-10-4-79 and H-9854, RA-10-5-79; both surveyed in 1979 at 1:10,000 scale. No significant differences were noted.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with NOS Chart 19320, 13th edition, scale 1:250,000, 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.

Submitted by:

Jerry L. Hancock

Final Reviewer

Approved for forwarding:

Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved:

Chief, Photogrammetric Production Sec.

Chief. Photogrammetry Branch

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OBJECTS ECTED FROM SEAWARD	T. CLARK	-	GEODETIC PARTY OTHER (Specify)	
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	INSTRUCTIONS FOR ENTRIES UNDER (Consult Photogramme)	FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64)		
OFFICE (DENTIFIED AND LOCATED OBJECTS Enter the number and date (including month,	CATED OBJECTS e (including month,	FiELD (Cont'd) B. Photogrammetric field positions** recentry of method of location or verifi	Cont'd) Photogrammetric field positions** require entry of method of location or verification,	
day, and year) or the photograph used to identify and locate the ubject. EXAMPLE: 75E(C)6042 8-12-75	otograph used to	graph used to locate EXAMPLE: P-8-V 74L(C)2982	to locate or identify the object. P-8-V 8-12-75 74L(C) 2982	سيمين بدلينية ودوارات
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*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	ned by field obserground survey methods.	by photogrammetric methods		 -
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SUPERFEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

숙 U.S.GPO:1975-0-865-080/1155

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COAST PILOT BRANCH (See reverse for responsible personnel) AFFECTED . 19320. CHARTS ORIGINATING ACTIVITY master station list OPR-T-126 RA-79 Position from Oct 11, 1979 F-V-VIS METHOD AND DATE OF LOCATION (See Instructions on reverse side) FIELD June, 1980 U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION CANDMARKS FOR CHARTS Aug 31, 1963 7969 OFFICE DATE 63S(P) 13.81 been inspected from scaward to determine their value as landmarks. SURVEY NUMBER DATUM D.P. Meters 404.1 LONGITUDE Southwest Coast 155-41 : Old Hawaiian POSITION 1333.4 D.M. Meters LOCALITY Hawaii 43.37~ • LATITUDE r . 18-56 į. ۰ Hawali DESCRIPTION
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NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-12559, (PH-6402)

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 Revi

CHART	DATE	CARTOGRAPHER	REMARKS
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