

T-12558

T-12558

NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. T-12558	Edition No. 1
Job No. PH-6402	
Map Classification FINAL FIELD EDITED MAP	
Type of Survey SHORELINE	
LOCALITY	
State HAWAII	
General Locality HAWAII ISLAND, WEST COAST KAILUA TO SOUTH CAPE	
Locality KEPUHI O KAHIO POINT	
19 63 TO 19 79	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.					
DESCRIPTIVE REPORT - DATA RECORD		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"> TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED </td> <td style="width:50%;"> SURVEY XX T-12558 MAP EDITION NO. (1) MAP CLASS FINAL JOB PH. 6402 </td> </tr> </table>		TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED	SURVEY XX T-12558 MAP EDITION NO. (1) MAP CLASS FINAL JOB PH. 6402		
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PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Atlantic Marine Center, Norfolk, VA		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"> LAST PRECEDING MAP EDITION </td> </tr> <tr> <td style="width:50%;"> TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED </td> <td style="width:50%;"> JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__ </td> </tr> </table>		LAST PRECEDING MAP EDITION		TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED	JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__
LAST PRECEDING MAP EDITION							
TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED	JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__						
OFFICER-IN-CHARGE R. Matsushige							
I. INSTRUCTIONS DATED							
I. OFFICE		2. FIELD					
Compilation Oct. 28, 1969 Amendment I Jan. 3, 1973 Memo Sept. 1, 1978		Control/Field inspection May 8, 1964					
II. DATUMS							
1. HORIZONTAL: ☐ 1927 NORTH AMERICAN		OTHER (Specify) Old Hawaiian					
2. VERTICAL: ☒ MEAN HIGH-WATER ☐ MEAN LOW-WATER ☐ MEAN LOWER LOW-WATER ☐ MEAN SEA LEVEL		OTHER (Specify)					
3. MAP PROJECTION Polyconic		4. GRID(S) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">STATE Hawaii</td> <td style="width:50%;">ZONE 1</td> </tr> <tr> <td>STATE</td> <td>ZONE</td> </tr> </table>		STATE Hawaii	ZONE 1	STATE	ZONE
STATE Hawaii	ZONE 1						
STATE	ZONE						
5. SCALE 1:10,000							
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS		NAME	DATE				
1. AEROTRIANGULATION BY METHOD: Stereoplanigraph LANDMARKS AND AIDS BY		J. Perrow	June 1969				
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		J. Perrow J. Perrow	June 1969 June 1969				
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:10,000 CONTOURS BY CHECKED BY		C. Blood R. White N.A. N.A.	Jan. 1973 Jan. 1973 				
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY METHOD: Smooth drafted SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY		C. Blood R. White N.A. N.A. C. Blood R. White	Jan. 1973 Feb. 1973 Jan. 1973 Feb. 1973				
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		R. White	Feb. 1973				
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		I. Perkinson/C. Blood R. Kravitz	Aug. 79/May 80 Aug. 79/Jun 80				
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		P. Dempsey	Aug 1987				
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		EL DAUGHERTY	SEP 87				

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8"S", S=152.29mm		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE ZONE Hawaii MERIDIAN 150th	
TIDE STAGE REFERENCE ☒ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY				☒ STANDARD ☐ DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
63S(P) 7969-7972*	Aug. 31, 1963	09:39	1:30,000	1.1 FT. above MLLW	
63S(C) 8000-8005**	Aug. 31, 1963	09:59	1:15,000	1.1 FT. above MLLW	
				Mean Tide Range = 1.4FT.	

REMARKS

*Bridging/compilation photographs, **Compilation/hydro support photographs

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from office interpretation of the compilation photographs using stereo instrument and graphic methods.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

No mean lower low water line was compiled.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
H-9852	1979	Registered			

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
None	T-12559	None	T-12557

REMARKS

T-12558
HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION

☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Newsom	Feb.-Sept. 1964
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY BY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	E. Cline
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
None

2. VERTICAL CONTROL IDENTIFIED
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

63(S) 7847-7850, 7852 (1:30,000 scale matte contacts)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 Project Field Report

T-12558
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION (*Partial-See Item #8)

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	(NOAA Ship FAIRWEATHER) B. Williams	Apr. 1979
2. HORIZONTAL CONTROL	RECOVERED BY None ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY None ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None LOCATED (Field Methods) BY None IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY BY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY L. Roberts	Apr. 1979
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

63S(C) 8000-8002 (Cronapaque ratios, 1:10,000 scale)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 Field edit paper print, 1 Field edit report
 (*Remaining area (east of Long. 155° 43.5') for edit was accomplished in
 Oct. 1979 by NOAA Ship RAINIER)

NOAA FORM 76-36C (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
T-12558 HISTORY OF FIELD OPERATIONS			
I. ☐ FIELD INSPECTION OPERATION		☒ FIELD EDIT OPERATION *(Partial - See Item #8)	
OPERATION	NAME	DATE	
1. CHIEF OF FIELD PARTY	(NOAA Ship RAINIER) W. Mobley	Sept./Oct. 1979	
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None	
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY BY ☒ NO INVESTIGATION		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	T. Clark Sept./Oct. 1979	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.	
II. SOURCE DATA			
1. HORIZONTAL CONTROL IDENTIFIED None		2. VERTICAL CONTROL IDENTIFIED None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details) 63S(C) 8003-8005 (Cronapaque ratios, 1:10,000 scale)			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE		6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE	
7. SUPPLEMENTAL MAPS AND PLANS None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) 1 Field edit film print, 1 Fieldedit paper print, 1 Field edit report (*Partial edit performed in April 1979 by NOAA Ship FAIRWEATHER; edit for sheet completed by RAINIER Oct. 1979)			

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RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Feb. 1973	Class II manuscript	None	Feb. 1973
Partial field edit applied	Aug. 1979	Class II manuscript with partial field edit	None	None
Field edit completed & applied; compilation complete.	June 1980	Class I manuscript	June 1980	June 1980
Final Review	May 1987	Final Map	July 1987	July 1987

II. LANDMARKS AND AIDS TO NAVIGATION None

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: None3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

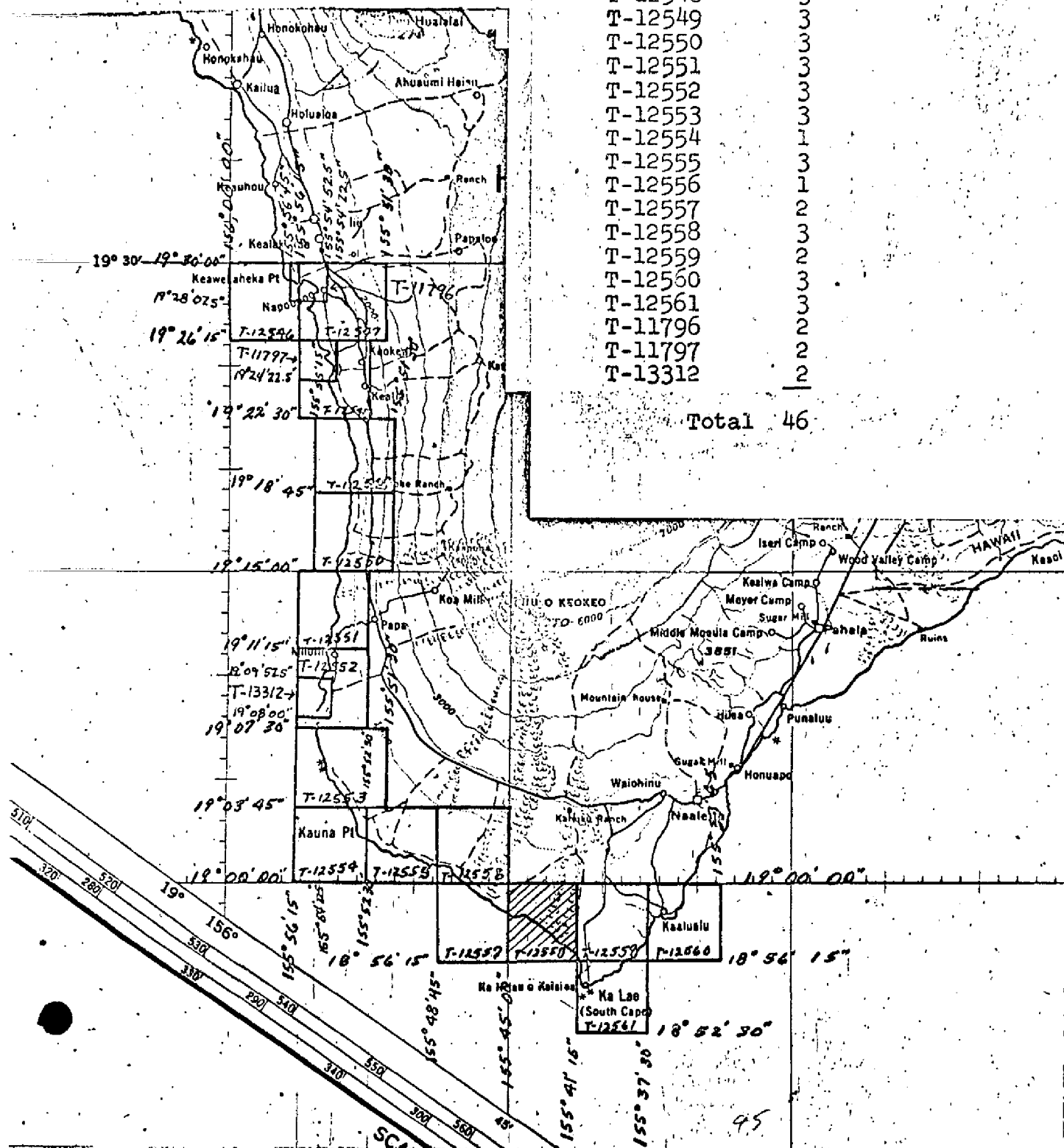
SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

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OFFICIAL MILEAGE FOR COST ACCOUNTS

T-12546	1
T-12547	3
T-12548	3
T-12549	3
T-12550	3
T-12551	3
T-12552	3
T-12553	3
T-12554	1
T-12555	3
T-12556	1
T-12557	2
T-12558	3
T-12559	2
T-12560	3
T-12561	3
T-11796	2
T-11797	2
T-13312	2

Total 46



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12558

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 Longitude 155° 41' 15" to Longitude 155° 45' 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. In addition, a field inspection was performed for the project area utilizing the 1:30,000 scale contact photographs. This activity was conducted in February thru September 1964 in conjunction with adjoining project PH-6401.

Analytic aerotriangulation was adequately provided by the Washington Science Center in June 1969. Tie points from photo strip #4 contained in adjoining project PH-6401 were included in this bridge. Aerotriangulation activity included ruling the base manuscripts and also provided ratio prints for compilation and hydrographic/field edit operations.

Compilation for this map was performed at the Coastal Mapping Section, Atlantic Marine Center in February 1973. Copies of the initial compilation and hydrographic support data were forwarded to the hydrographer for field edit.

Field edit was conducted by hydrographic personnel in April 1979 by NOAA ship FAIRWEATHER and in October 1979 by NOAA ship RAINIER.

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Application of field edit was performed at the original compilation office initially in August 1979 and completed 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.

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FIELD INSPECTION

T-12558

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.

UNITED STATES GOVERNMENT

Memorandum

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

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631W

TO : Chief, Photogrammetric Field Operations
THRU : Honolulu Field Officer *nd*

DATE: August 5, 1964

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 & PELE, 1891
PUU KI, 1914
TANK, 1948

Supplimental Station Pricked:
KAUNA POINT LIGHT, 1948

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
Edward P. Cline

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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.

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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.

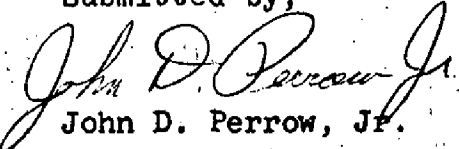
24. Supplemental Data

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) 63-S-8080-8081

Points 22330, 23310, 23800, 23801

(3) 63-S-8081-8082

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

(4) 63-S-8082-8083

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) 63-S-8084-8085

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.

JOB PH-6402

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SHORELINE MAPPING

JOB PH-6402

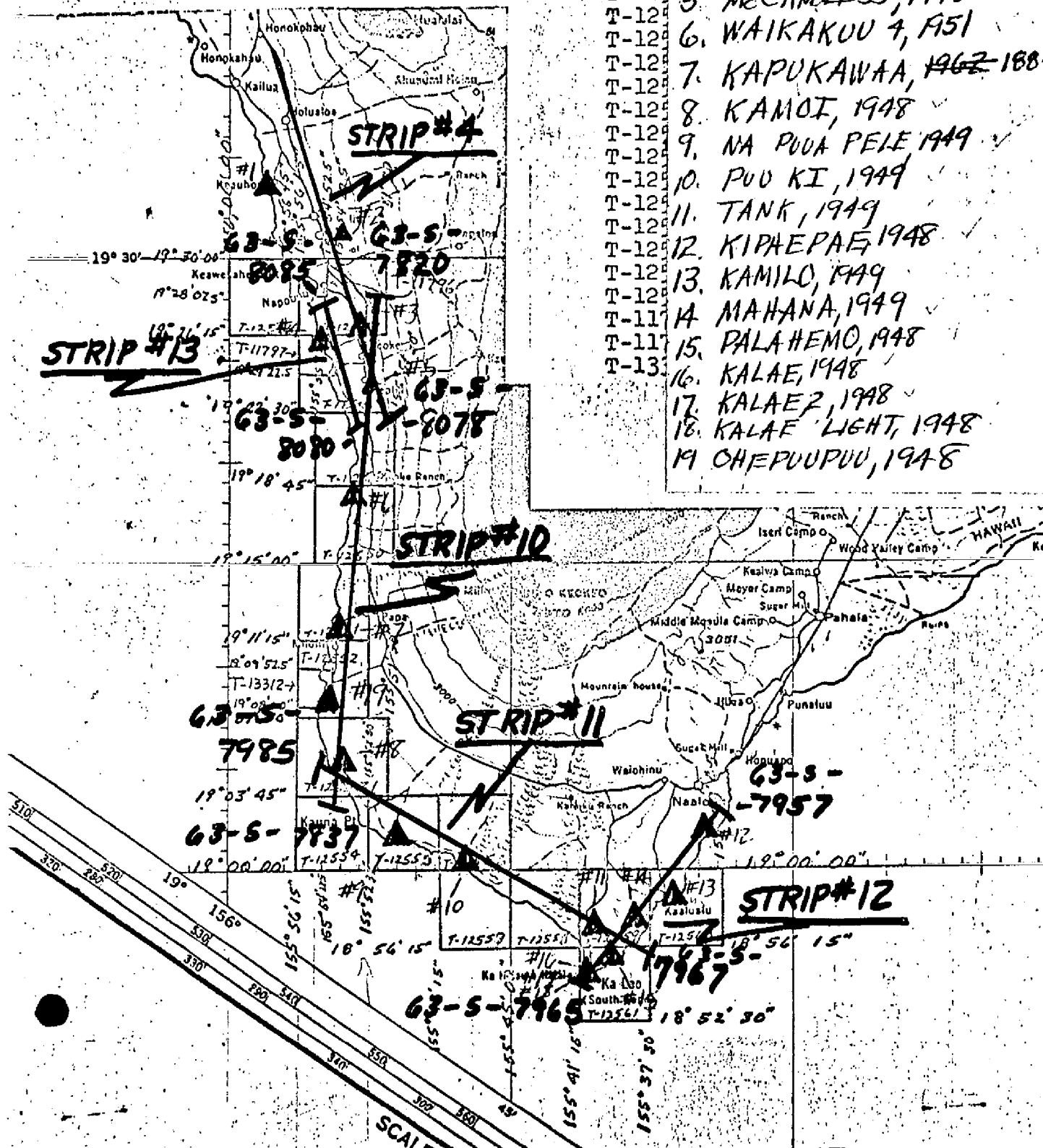
HAWAII IS. WEST COAST
AILUA TO SOUTH CAPE

SCALE 1:10,000

OFFICE

Sheet
No.

1. POINT, 1928
2. KANAKU, 1948
3. HONAUANU ST. BENEDICT
CATH. CH. SPIRE, 1948
4. KEEI S. BASE, 1948
5. McCANDLESS, 1948
6. WAIKAKU 4, 1951
7. KAPUKAWAA, 1962-1984
8. KAMOI, 1948
9. NA PUA PELE, 1949
10. POU KI, 1949
11. TANK, 1949
12. KIPHEPAE, 1948
13. KAMILO, 1949
14. MAHANA, 1949
15. PALAHEMO, 1948
16. KALAE, 1948
17. KALAE, 1948
18. KALAE LIGHT, 1948
19. CHEPUUPUU, 1948



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	PH-6402	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM		ORIGINATING ACTIVITY	
					Old Hawaiian Datum	Geographic Position	Coastal Mapping Section, AMC	
STATION NAME					COORDINATES IN FEET STATE <u>Hawaii</u> ZONE <u>1</u>	ϕ LATITUDE λ LONGITUDE	REMARKS	
UMI'S AHU (H.G.S.) (H.T.S. 1938), 1887			G.P. Pg. 19		X=	ϕ 18° 58' 18.378"		
					Y=	λ 155° 41' 22.642"		
					X=	ϕ		
					Y=	λ		
					X=	ϕ		
					Y=	λ		
					X=	ϕ		
					Y=	λ		
					X=	ϕ		
					Y=	λ		
					X=	ϕ		
					Y=	λ		
					X=	ϕ		
					Y=	λ		
					X=	ϕ		
					Y=	λ		
					X=	ϕ		
					Y=	λ		
COMPUTED BY	A. C. Rauck, Jr.	DATE	7-29-69	COMPUTATION CHECKED BY	C. Blood	DATE	1-26-73	
LISTED BY		DATE		LISTING CHECKED BY		DATE		
HAND PLOTTING BY		DATE		HAND PLOTTING CHECKED BY		DATE		

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT

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31. DELINEATION:

Delineation was by instrument methods using the Wild B-8 stereoplotter and 1:30,000 scale panchromatic compilation/bridging photographs. Ratio prints of the 1:15,000 scale color photographs were used graphically to supplement the compilation of minor detail and to assist in photo interpretation.

The field inspection supplied on the 1:30,000 scale contact prints was difficult to interpret. Individual rocks that could not be clearly identified during compilation were not compiled.

Photo quality and coverage were adequate.

32. CONTROL:

Refer to the Photogrammetric Plot Report, dated June 10, 1969.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was delineated from the compilation photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline, coral and foul limits were delineated from office interpretation of the photographs and from the annotated photographs resulting from the precompilation field inspection. Because of the small tide range, no mean lower low water line was compiled.

36. OFFSHORE DETAILS:

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

37. LANDMARKS AND AIDS:

There were no charted fixed aids or landmarks within the limits of this manuscript.

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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 June 10, 1969.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with USGS quadrangles Puu Hou, Hawaii, scale 1:24,000, dated 1962 and Ka Lae, Hawaii, scale 1:24,000, dated 1962.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with C. & G.S. Chart 4115, scale 1:250,000, 8th edition, dated September 9, 1963, revised January 1, 1967.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Jerry L. Hancock
for C. Blood
Cartographic Technician
January 1973

Approved:

Jerry L. Hancock
for Albert C. Rauck, Jr.
Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

T-12558

Field edit for the area northwest of Longitude 155° 43.5' was performed in April 1979 by NOAA ship FAIRWEATHER personnel. The remaining area for the sheet was edited by NOAA ship RAINIER personnel in October 1979. Field edit data from the combined activities was adequate to advance the manuscript to Class I.

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6402 Hawaii

T-12558

Ahuauuni -----Not compiled
Haweia
~~Island of~~ Hawaii
Kailikii
Kailikii Shoal
Kaio
Kalipoa
Kealakio
Kepuhi o Kahio Point
Mchuhonu -----Mokuhonu
Pacific Ocean
Pohakuwaakauhi
Puu Hou
Puu Kaimuuwala -----Not compiled
Puu Lohena
Puu Waimanalo -----Not compiled
Waiahukini
Waialua
Puu o Haupu

Approved by:

A. J. Wright

A. Joseph Wright
Chief Geographer

Prepared by:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

T-12558
OPR-T126-FA-79
KA LAE O KAHIO POINT

Description

Flat continuous lava flows with scattered sand deposits characterize this shoreline. An extremely well defined MHWL with an occasional foul area or an area with rocks awash was observed. No submerged ledges were identified due to the great depths immediately adjacent to the MHWL.

Method

Due to the irregular shoreline and extreme surf, the field edit was done on foot. Existing features were compared with the discrepancy print and the color photographs. Changes and additions were depicted on the color photographs. Rock heights, deletions, and answers to questions posed by the stereo compiler were indicated on the discrepancy print. Submerged offshore features were noted on the boat sheets so that the hydrographer could prove or disprove them. All discrepancies between the field edit and hydrographic data have been resolved. Field edit was completed only to a point with three rocks awash, northwest of Puu Hou (a large eroded cinder cone).

Adequacy And Completeness Of Compilation

With respect to the shoreline covered on the western side of this sheet, the compilation was very good.

Manuscript Accuracy

The manuscript, as compiled, compared quite well with the features inspected.

Recommendations

The section of this manuscript that was field edited, should be accepted for charting purposes after the corrections have been applied.

Submitted by

Michael J. Willis
Michael J. Willis, Ens., NOAA

Approved by :

Bruce I. Williams
Bruce I. Williams, Cdr., NOAA
Commanding Officer
NOAA Ship FAIRWEATHER
April 1979

FIELD EDIT REPORT

OPR-T126-RA-79
CM-7713
T-12558

HAWAII
Hawaii, West Coast
Ka Lae O Kahio Point

1 Field Edit

21 September 1979 - 8 October 1979
(J.D. 264 - J.D. 281)

Methods

Field edit operations on T-12558 began 21 September 1979 (J.D. 264) and ended 8 October 1979 (J.D. 281). 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 acceptable meanings: green-deletion of features; red-answers to specific questions on the sheets; violet-verification or additions.

The features were mostly verified on foot. Submerged rocks from 155° 42'00" W to 155° 41' 40" W were sounded by leadline from a small boat. Additions of rocks were photo-pricked and referenced on the discrepancy print.

Color photographs 8003, 8004, 8005, the discrepancy print, and the field edit sheet were used to record and present data.

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

Adequacy and Completeness

The area covered in this field edit was the shoreline south of 18° 58' 05" N, as per instructions on the field edit sheet. With this constraint, the manuscript, as amended by the field edit survey, is adequate and complete.

Geographical Names

There was no investigation of geographical names.

Manuscript Accuracy

Accuracy was determined by direct comparison of shoreline features with the discrepancy print and photos. Agreement was very good.

Recommendations

This corrected manuscript should supercede all previous shoreline compilations.

Respectfully submitted,

Thomas G. Clark

Thomas G. Clark
Lieutenant, NOAA

Approved and Forwarded

Wayne L. Mobley

Wayne L. Mobley
Captain, NOAA
Commanding

REVIEW REPORT
SHORELINE
T-12558

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 quadrangles Puu Hou, Hawaii, scale 1:24,000, dated 1962 and 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 survey H-9852, RA-10-3-79, surveyed 1979, scale 1:10,000. 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
Jerry L. Hancock
Final Reviewer

Approved for forwarding:

Billy H. Barnes
Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved:

Jerry O. Robson
Chief, Photogrammetric Production Sec.

A. J. - Bryson
Chief, Photogrammetry Branch

