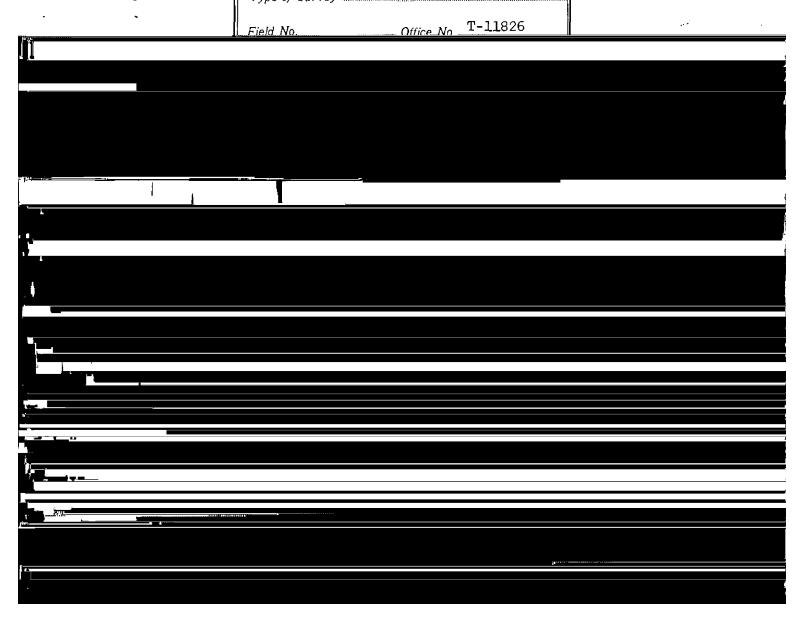


FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

### DESCRIPTIVE REPORT

Type of Survey Shoreline(Photogrammetric)



FORM	C&GS-	18 1 a
(3-66)		

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REI	PORT - DATA	A RECORD		
	<b>T</b> -11826			
ROJECT NO. (II):				
PH-6201				
FIELD OFFICE (II):		CHIEF OF PARTY		
Honolulu, Hawaii		H. J. Seaborg		
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHARGE		
Atlantic Marine Center		Allen L. Powell,	Director, AMC	
INSTRUCTIONS DATED (II) (III): Field Office Compilation " ", Amendment I " " Amendment II " " Amendment III " " Amendment IV	May 3. Decemb Februa Januar	25, 1962 1, 1962 ber 14, 1962 ary 20, 1963 ry 8, 1964 24, 1967		
METHOD OF COMPILATION (III):  Wild B-8 Plotter & Graphic			<u> </u>	
MANUSCRIPT SCALE (III):	STEREOSCO	OPIC PLOTTING INSTRUMENT S	CALE (III):	
1:5,000	1:15,00	00 Pantographed to 1:5,000		
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPO	ORTED TO NAUTICAL CHART 8	RANCH (IV):	
APPLIED TO CHART NO.	DATE:	DATE REG	ISTERED (IV):	
GEOGRAPHIC DATUM (III):		VERTICAL DATUM (III):  Fligh Waler  MEAN STALLEVEL EXCEPT A  Elevations shown as (25) refer		
Old Hawaiian		Elevations shown as (5) refer to	o sounding datum	
REFERENCE STATION (III):				
MOKOHOLA (HGS) 1962 🗸				
LAT.: LONG.:		X ADJUSTED		
21° 10' 28.954"(890.5m) 156° 52° 42.	164"	UNADJUSTED		
PLANE COORDINATES (IV):		STATE	ZONE	
Y=305,638.9 ft.		Hawaii -	2	
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENT OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE				

#### **DESCRIPTIVE REPORT - DATA RECORD**

FIELD INSPECTION BY (II):	DATE:
L. F. Van Scoy	August 1962
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):	
Wild B-8 Plotter, October 1962	
Graphic, September 1961	
- · ·	
PROJECTION AND GRIDS RULED BY (IV):	DATE
A. E. Roundtree	6-15-62
PROJECTION AND GRIDS CHECKED BY (IV):	DATE
CONTROL PLOTTED BY (III):	DATE
Portland Photogrammetirc Office	· <u>1</u> 965
CONTROL CHECKED BY (III):	DATE
Portland Photogrammetric Office	1965
<del></del> <del></del>	
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):	DATE
H. P. Eichert	December 1964
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY	DATE
A. L. Shands *	9-13-67

#### **DESCRIPTIVE REPORT - DATA RECORD**

MERA (KIND OR SOURCE) (III):

Wild RC-8 "W"

	PHO	OTOGRAPHS (III)		
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62 <b>-W-1</b> 858	2 Oct. 1962	0847	1:25,000	0.8 ft. above MLLW
61 W 1003 thru 1006	24 Sept.1961	1205	1:15,000	1.4 ft. above MLLW
		(m) D	REDICTED	Diurr

TIDE (III	PREDICTED			Diurna
		RATIO OF RANGES	MEAN RANGE	X PHHIXOX RANGE
REFERENCE STATION: Honolulu			1.2	1.9
Wiamanalo		0.92	1.1	1.8
SUBORDINATE STATION:				]
WASHINGTON OFFICE REVIEW BY (IV) Leo F. Bougnet, Atlantic M	lorine Ceuter	DATE:	4. 1970	
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	RECOVERED:	IDENTIFIE	D:	
NUMBER OF BM(S) SEARCHED FOR (II):  None	RECOVERED:	IDENTIFIE	D	
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): $_{ m M}$	one			

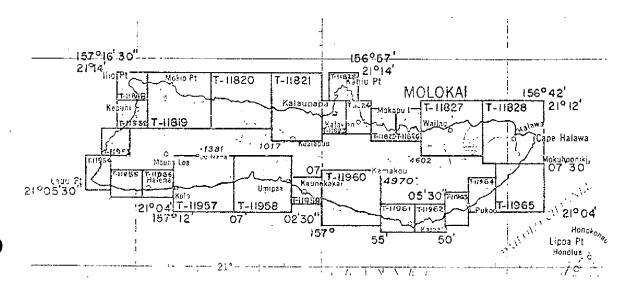
REMARKS:

T-11826

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	Sept. 1967	Superseded
Field edit applied compilation complete	June 1969	

## PROJECT PH-6201

# SHORELINE MAPPING 1:5,000 AND 1:10,000 SCALES MOLOKAI ISLAND HAWAII



#### Official Mileage for Cost Accounts

Sheet No.	Shoreline Lin. Mi.	Area Sq. Mi.	Sheet No.	Shoreline Lin. Mi.	Area Sq. Ml.
11818	Lţ.	<u>,</u>	11952	<u> </u>	3
- H					
- i					•
11200	L.		3305/1	2	2
11820 11821	) )	), ),	1.1954 11955	2	<u>८</u> २
11822	2	.t ∴	11956	. 3	ئ ع
11823	) 1	) 1	11957	ž	. Y
11824		વ	11958	· –	5
11825	7	2,	11959	र्व	ά
11826	3	ર્વે	11960	6	ĕ
<del>-</del>	<u></u>				

#### SUMMARY TO ACCOMPANY

#### DESCRIPTIVE REPORT T-11826

Shoreline survey T-11826 is one of twenty-five similar surveys in project PH-6201. The surveys of this project cover the entire shoreline of Molokai Island. This survey covers that part of the north shore extending from Haupu Bay eastward to Waipu.

Field work preceding compilation consisted of identification of horizontal control, shoreline and field inspection and selection of photo-hydro signal sites. There were no fixed aids to navigation or landmarks for charts within the compilation limits.

Compilation was at 1:5,000 scale using the photography of 24 September 1961. Cronaflex copies of the manuscript along with ozalids and specially prepared photographs were subsequently provided for transfer of the shoreline to boat sheets, location of photo-hydro signals and field edit use.

The manuscript was a vinylite sheet 2 minutes 15 seconds in latitude by 2 minutes in longitude. After application of field edit, which was accomplished in December 1968, the manuscript was scribed and reproduced on cronaflex. Final review was in the Atlantic Marine Center in September 1970. One cronaflex positive and a negative of the final reviewed manuscript are forwarded for record and registry.

FINID DISPECTION REPORT

Map Manuscripts T-11952 thru 11965 T-11618 thru 11628

Project PH-6201

January - October 1962

#### 2. AREAL FIRED INSPECTION

The area covered by this report encompasses the whole of the island of Molokai. This is the fifth largest of the group of islands that form the State of Hawaii. The island was originally formed by the eruption of two volcanos. One was located somewhere near the east end of the island and the other somewhere near the west end. Following these eruptions the numerous deep drainages were created by stream errosion and the ocean created the great cliffs along the north coast. A later eruption formed the Molanalua Peninsula on the north central coast. The Kauhako Crater remains as evidence of this eruption. The highest peak is Kauakou which is 4958 feet above sea level.

The climate of the island varies considerably depending on the elevation and location in relation to the prevailing trade winds. The mean annual temperature at sea level is about 74 degrees. The temperature seldom varies more than 10 degrees except at the higher elevations. The yearly rainfall varies from about 7 inches around Kaunakakai to over 150 inches in the high mountain sections of the northeast.

The only port in use on the island is located at Kaunakakai. A small wharf connected to the shore by a long mole is used to load and unload barges, and serve small commercial and private boats. At one time a rail-road connected the wharf to the area now known as Hoolehua Homesteads. It was abandoned soon after completion as the sugar plantation it was constructed to serve was a failure. The economy of the island is almost wholly dependant on the growing of pineapple and cattle ranching.

The wharf located at Kolo was used for a time to load pineapple from the Maunaloa area. It was later abandoned and since that time has been partially destroyed by fire. The wharf located at Kamalo is now in poor condition and seldomed used except by an occasional small fishing or pleasure boat. The wharf located at Pukoo is no longer in evidence. Located at Haleolon is a small harbor protected by a breakwater. This is a private harbor and is used to load sand and cinder barges for shipment to Oahu. A small private airstrip is located along the easterly breakwater.

Located on the Makanalua Peninsula is the small settlement of Kalaupapa. The cettlement is maintained by the State of Maraii, Department of Health for the treatment of Hansen's Disease (Lepersty). Special permission must be obtained from the state before visiting this area. No facilities for serving the public are permitted on the peninsula. The U.S. Coast Guard maintains an isolated light station at the northern tip of the peninsula. The area is served by limited airplane service and supplies are brought in by barge at infrequent intervals. A small wharf protected by a short breakwater is located at the settlement. This area is isolated from the remainder of the island except for a foot trail that leads down the steep pocky cliffs from the top of the pali southwest of the settlement.

Shoreline around the island vary from the almost vertical rock cliffs along most of the north and east coast, to the narrow and relatively flat coastal areas along the south coast. Most of the south coast is protected by an offshore reef. A few sandy beaches are located along the south and west coasts. Most of the north coast is accessable only by boat and any landings there should be attempted with extreme caution.

Photography was adequate for the identification of horizontal control and shoreline inspection for most of the island. A few sections of the shoreline along the northeast coast of the island were in complete shadow from the most vertical cliffs.

The shoreline for the entire island was visually inspected an the mean high water noted on the field photographs. The shoreline along the north coast except for the Makanalua Peninsula was inspected by cruising offshore in a small boat. The work was difficult due to the small size of the boat, the rough seas, and strong winds. A few landings were made on the more prominent points along the northeast coast. The remainder of the island was inspected by walking the shoreline in the more accessable areas, and by observations from vantage points along bluffs and cliffs where the shoreline could not be otherwise visited. Scattered sections of the shoreline along the south coast were obscured by overhanging Keawe trees and dense growths of Mangrove trees.

#### 3. HORIZONTAL CONTROL

(a) The following described intersection stations were located by traverse or triangulation as nautical aids, aeronautical aids, and landmarks.

Molokai Lighthouse Molokai Airport Beacon Waihuna, Aero Beacon Red Light Kaulapuu, Aero Beacon Red Light Holohai VOR (EKK)
Puu Apalu, Tank
Ilio Pt., Coast Guard Loran Hast
Waishewahewa, Aero Beacon Red Light
Lacu Pt. Light
Kaunakakai Harbor, Entrance Range, Front Light
Kaunakakai Harbor, Entrance Range, Rear Light

(b) No datum adjustments were made by the field party.

(c) WAIELI 2, 1945 was the only control station identified that was not	
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A total of 13 U, S. Geological Survey bench marks were searched for. These marks were used in conjunction with the tellurometer traverse work on the island and for use in determining the elevation of landmarks. All marks were listed on Form 685 which was submitted to the Honolulu District Officer.

#### 5. CONTOURS AND 'DRAINAGE

Contours not applicable

Drainage is self evident on the photographs. All streams except for a few in the larger valleys of the northeast coast and near the east end of the south coast are intermittent. During the wet season there are dozens of waterfalls cascading from the tops of the cliffs and rims of the valleys of the northeast coast. Marsh areas have been indicated on the field photographs.

#### 6. WOODLAND COVER

The mountainous areas of the northeast part of the island is covered with a dense growth of native ferns and hardwoods. A large stand of planted softwoods is located along the top of the pali in the north central part of the island. Keawe trees which were introduced to the island about 100 years ago cover most of the remainder of the island except for the cultivated areas. Along the mud flats of the south coast there are scattered stands of introduced Mangrove trees.

#### 7. SHORELINE AND ALONGSHORE FEATURES

(a) The mean high water line was indicated on the photographs. Along some sections of the northeast coast the shoreline was obscured due to the shadows created on the photographs from the almost vertical cliffs. In some areas of the south coast the shoreline was partially obscured by low overhanging Kiawe trees. In most cases this overhang was less than 10 meters and the approximate correct location was indicated on the photographs. Also along the south coast there are scattered stands of Mangrove trees. In these areas the mean high water line was indicated as apparent shoreline.

The shareline along the north east, and small areas of the Vest and

- (b) The low water line was not indicated on the photographs.
- (c) Where possible the character of the foreshore was indicated on the photographs.

(d) The north, east, and sections of the west and southwest coast is boardered by rocky cliffs. In some cases these cliffs are over 2000 foot

(c) The geographic positions for the following charted aeronautical aids was determined by traverse or triangulation during the 1962 field season.

Molokai, Airport Beacon Waiahewahewa, Aero Beacon Red Light Waihuna, Aero Beacon, Red Light Kualapuu, Aero Beacon, Red Light

The geographic position of one new aeronautical aid selected for charting was determined during the 1962 field season.

Molokai VOR (MKK)

All aeronautical aids to be charted were listed on Form 567 and the elevation for each aid was determined by the field party.

(d) The geographic positions of the following list of aids to navigation was determined by the field party during the 1962 season.

Molokai Lighthouse

Laau Pt. Light

Ilio Pt., Coast Guard Loren Mast

Kaunakakai Harbor, Entrance Range, Front Light

Kaunakakai Harbor, Entrance Range, Rear Light

All nautical aids to be charted were listed on Form 567 and the elevation for each aid was determined by the field party.

- (e) Not applicable
- 10. BOUNDARIES, MONUMENTS, AND LINES

Not applicable

#### 11. OTHER CONTROL

No recoverable topographic stations were established.

In all areas where identifiable objects could be found photo hydro sites were selected. In some cases it will be necessary to locate a more suitable location for the hydrographic signals from the selected photo hydro sites.

#### 12. OTHER INTERIOR FRATURES

All roads in the project area were classified on the field photographs in compliance with the project instructions.

All public buildings with their function was indicated on the field photographs.

The main airport serving the island is located south of the Hoolehua Homestead area in the central section of the island. A small airport for use by small aircraft is located on the Makanalua Peninsula. A small private airstrip is located at Maleolon near the southwest end of the island.

No bridges or overhead cable crossings over navigable water are located in the project area. There are no submerged cables connecting the island with other areas.

#### 13. GEOGRAPHIC NAMES

Not Applicable

OCT 3 0 1962

Capt., C & G S

Honolulu District Officer

Respectfully submitted:

Leonard F. Van Scoy

Supervisory Survey Technican

Unit Chief, C & G S

Aerotriangulation Report PH-6201 Molokai, Hawaii Strip 4

#### 21. Area Covered

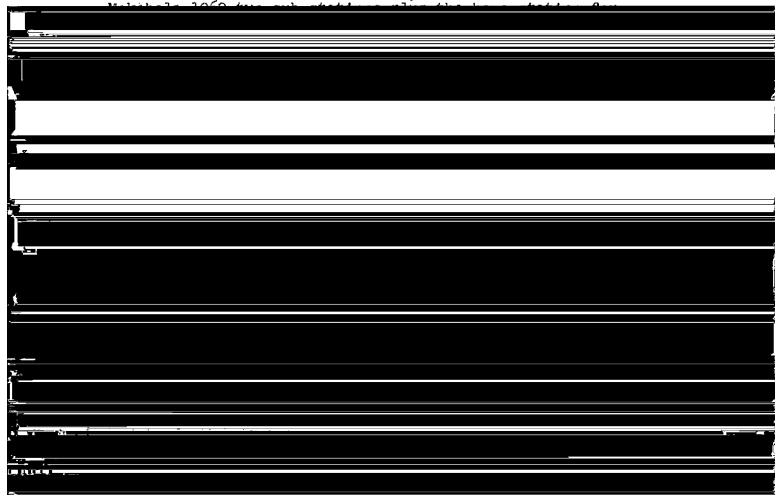
This report covers T-sheets 11821 and 11823 through 11828 along the Northeastern shore of Molokai Island.

#### 22. Method

A horizontal bridge was run on the C-8 stereoplanigraph to provide control for compilation using photographs 62-W-1850 through 1865. The adjustment on the IBM 650 utilized four control stations with one station as a check. A supplemental straight line adjustment was made in the area of Strips #6 and #7.

#### 23. Adequacy of Control

The horizontal control provided complied with project instructions in quantity but not in quality. Station Kikipua 2, 1962 was identified by only one sub-station and this point could not be positively identified. At station



26. In attempting to drop pass points for control of flight 62-W-1850 through 1865 it was found that due to shadows and extreme elevations only a few common points could be provided and these were along the shoreline. Since these points are insufficient to allow detailing by machine methods the shoreline must be delineated by graphic methods and additional points must be pricked by the hydro party.

Submitted by-

John D. Perrow, Jr.

Cartographer

Approved by

Henry P. Eichert

Chief, Aerotriangulation

Section

PH-6201 Molokai, Hawaii Strip 4

#### NOTES TO COMPILER

This strip was recomputed on the adjusted control which is now available. The points in the northeastern area moved only 2-3 feet and the junction with Strip #1 showed no appreciable change. The new adjusted positions should be used in preference to those provided earlier.

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODE SURVEY

•	)
FORM C&G\$-164 (4-68) USCOMM-DC 50318-P68	
14-68 14-68 USCC 50318	

DESCRIPTIVE REPORT CONTROL RECORD

## COMPILATION REPORT Map Manuscript T-11826 Project PH-6201

#### 31. <u>DELINEATION</u>:

Two flights of photographs taken at different times and dates were used for compilation.

The bridging photographs were flown between 0830 and 0900 hours on January 19, 1962 at a scale of 1:25,000. These proved to be very inadequate for shoreline compilation. The flight line was considerably south of the shoreline; therefore, part of the shoreline was obscured by overhanging bluffs and much of it was in deep shadow, making identification of the mean high water line extremely difficult, if not impossible.

The photographs used for hydrographic support were flown around noon on September 24, 1961 at 1:15,000 scale. The line of flight was along the shoreline. The mean high water line was viewed from a better vantage point and in much better light than the bridging photographs.

Because of the range of elevation in the stereoscopic models exceeded the vertical range of the B-8 Plotter at 1:5,000 scale, the models could not be set and scaled to the manuscript. However, they could be set at 1:10,000 scale and this was done. The aerotriangulation control points were plotted at 1:10,000 scale on a clean sheet of mylar and the models scaled to this worksheet. Points common to the bridging photographs and the hydrographic support photographs were dropped and then transferred from the worksheet to the 1:5,000 scale manuscript by pantograph. The centers of the hydrographic support photographs were then located by resection and the mean high water line, shoreline details and photo-hydro points were compiled graphically.

#### 32. CONTROL:

See Photogrammetric Plot Report by H. P. Eichert dated December 1964.

#### 33. SUPPLEMENTAL DATA:

None.

#### 34. CONTOURS AND DRAINAGE:

Contours are not applicable.

One stream was delineated a short distance back from the shoreline.

#### 35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline and alongshore details were compiled graphically from ratio prints of 1:15,000 scale photographs.

Field inspection was adequate for delineation of the mean high water line.

#### 36. OFFSHORE DETAILS:

Offshore details are Mokolea Rock and Mokohola Island.

#### 37. LANDMARKS AND AIDS:

#### 38. CONTROL FOR FUTURE SURVEYS:

None.

#### 39. JUNCTIONS:

Satisfactory junctions were made with T-11825 to the west and T-11827 to the east. There are no contemporary surveys to the north and south.

#### 40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

#### 46. COMPARISON WITH EXISTING MAPS:

Comparison was made with USGS Quadrangle KAMALO, HAWAII, ISLAND OF MOLOKAI, Scale 1:24,000 dated 1952.

#### 47. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Nautical Chart 4116, Scale 1:250,000, 12th edition, dated August 17, 1964.

#### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

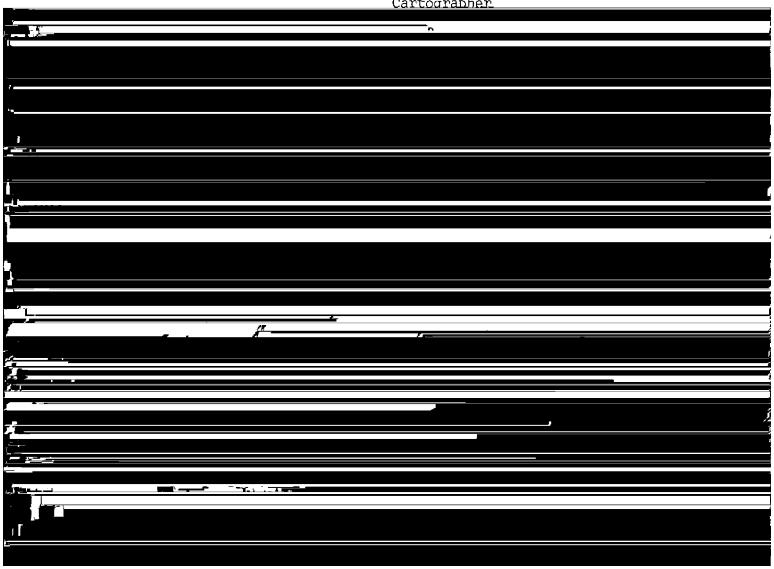
#### ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Charles Horshop

Charles H. Bishop Cartographer



#### Job PH-6201 Molokai Island, Hawaii Supplement to Compilation Report

Because of the extreme elevations encountered in models along the northeast shore of Molokai, it was impossible to compile the shoreline by normal methods on the B-8 plotters. The methods used are described in the Compilation Reports for PH-6201, T-11825, T-11826, and T-11827.

In order to verify this work, three models (62-W-1853-1854), (62-W-1855-1856), and (62-W-1856-1857) were set on the C-8 Stereoplanigraph, and scaled to the original bridge points. Shoreline detail, offshore rocks, etc. were checked and found to be of National Map Accuracy Standards. Only in model 62-W-1853-1854 was it necessary to hold only the four points nearer the shoreline. The two interior points were an extreme elevation, and were disregarded as probably in error, because the aerotriangulation adjustment used at that time did not include a simultaneous vertical adjustment.

Submitted by:

John D. Perrow, Jr.

Approved by:

Henry P. Eichert

Chief, Aerotriangulation Section

#### GEOGRAPHIC NAMES

#### FINAL NAME SHEET

PH-6201

T-11826

Ananoio Anokaiole Haukio Haupu Haupu Bay Hawaii (title) Kaholaiki Bay Kaneaimoa Point Kapahu Point Keawanui Kipu Lelakoae Mokohola Island

Approved by:

A. Ø. Wraight

Chief Geographer

Mokolea Rock Mokumanu Molokai Naninini Pacific Ocean Paueono Pauonuakea

Pelekunu Pelekunu Bay Pelekunu Streat Umilehi Point

Waaula Waipu

Prepared by:

F.W. Pickett Frank W. Pickett

Cartographic Technician

#### 49. NOTES FOR THE HYDROGRAPHER:

- 1. See FIELD EDIT OZALID.
- Two flights of photographs taken at different@times and dates were used for compilation.

The bridging photographs were flown at 1:25,000 scale on January 19,1962. This flight was flown considerably south of the shoreline and the exposures were made around 0830 hours. Therefore, part of the shoreline is obscured by overhang and much of it is in deep shadow, making identification of the mean high water line extremely difficult, if not impossible.

The photographs used for hydro support were flown at 1:15,000 scale on September 24,1961. This flight line was flown along the shoreline around noon. The mean high water line was viewed from a much better vantage point and in much better light than the bridging photographs.

Stereoscopic models of the bridging photographs could not be scaled to the 1:5,000 scale manuscripts. However, they could scaled at 1:10,000 scale. This was done and points common to the 1:25,000 scale photographs and the 1:15,000 scale photographs were located. These common points were transferred to the 1:5,000 scale manuscripts. Centers of the ratio prints of the 1:15,000 scale photographs were located by resection, and the mean high water line and other details were compiled graphically.

- 3. There are no photo-hydro points on T-11825.
- 4. The following is a list of photo-hydro points shown on T-11826 and the cronapaque ratio prints for your use if they are still in existence:

Point	Description		
2601	Offshore end of walkway.		
2602	Lone 20 ft. lahalla tree.		
2603	Lone lahalla tree.		

FORM C&GS-1002			U	S. DEPARTMENT OF COMMERCE
PHOTOGRAMMETRIC OFFICE REVIEW				
		7.	11826	
1. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
СНВ	СНВ		СНВ	СНВ
CONTROL STATIONS				
5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	ATIONS OF ACCURACY	6. RECOVERAL OF LESS TH (Topographic	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY (stations)	7. PHOTO HYDRO STATIONS  CHB
8. BENCH MARKS	9. PLOTTING	F SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
χ	x		Bridge - W. O.	χ
ALONGSHORE AREAS (Nautical	Chert Data)		<del></del>	
12. SHORELINE	13. LOW-WATE	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
СНВ	c	HB	СНВ	X
16. AIDS TO NAVIGATION	17. LANDMARK	(S	18, OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
_ х		χ	СНВ	Х
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
СНВ	CHB		Х	
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
χ	χ		X	Х
CULTURAL FEATURES  27, ROADS	28. BUILDINGS	<del>.</del>	29. RAILROADS	30. OTHER CULTURAL
27. 70.703	200 0012011403		IN RAILROADS	FEATURES
X	Х		χ	Х
BOUNDARIES 31. BOUNDARY LINES			32, PUBLIC LAND LINES	
Х			Х	
MISCELLANEOUS 33. GEOGRAPHIC NAMES		Tar unerion		lás i seteti iso as sus
33. GEOGRAPHIC NAMES		34. JUNCTION	5	35. LEGIBILITY OF THE MANUSCRIPT
CHB		c	HB	CHB
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
Χ	СНВ		СНВ	CHB
Charles H. Bishop			SUPERVISOR, REVIEW SECTION	d. Rausk, J
C: H. Bishop	10/31/67 Albert C. Rauck, Jr.			, Jr. /
41. REMARKS (See attached she		<u></u>		
FIELD COMPLETION ADDITION				
script is now complete ex-	cept as noted un	der item 43.	ion survey have been applied t	·
A.L. Shands a. Y.	Shout	/27/69	SUPERVISOR albert	C. Rauck, J.
Pour but R.E. Smit	-h 10	1/24/69	Albert C Rauck	.In

43. REMARKS FIE SINCE

Field edit applied from:

Field photos 61-W-1003, 61-W-1004 and 61-W-1006 and on Field edit ozalid of T-11826  $\,$ 

#### Field Edit Report To Accompany T 11826

USC&GSS McARTHUR

Ronald L. Newsom CDR, USESSA Commanding Officer

#### 51 METHODS

Field Edit on Manuscript T 11826 was accomplished in conjunction with hydrography on boatsheets AR-20-1-68,H 8981, AR 20-4-68 H 8995 and AR 5-3-68, H 8983. The shoreline was inspected from launches and skiffs. The MLLW line was impossible to determine due to heavy swell. Field edit information was shown on three photos #61W1003, #61W1004, and #61W1006 in violet ink and on the field edit ozalid copy of T 11826 in violet ink. The photos were indexed on the field edit ozalid in violet.

#### 52 ADEQUACY OF COMPILATION

Manuscript T 11826 was completely adequate for a hydrographic survey.

#### 54 RECOMMENDATIONS

None

#### REVIEW REPORT T-11826

#### SHORELINE

#### SEPTEMBER 4, 1970

#### 61. GENERAL STATEMENT

See Summary, which is page 6 of the Descriptive Report.

#### 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

There was no registered topographic survey available for comparison purposes at the time of final review.

#### 63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. KAMALO, HAWAII 7.5 x 8.5 minute quadrangle, 1:24,000 scale, edition of 1952. The two surveys are in good general agreement. The U.S.G.S. quadrangle is necessarily generalized because of its scale.

#### 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-8983 (AR-5-3-68), H-8981 (AR-20-1-68) and H-8995 (AR-20-4-68). No major discrepancies were noted. All differences have been noted on the comparison print in purple.

#### 65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 4130, 6th edition, revised February 10, 1969. The surveys appear to be in good general agreement with the exception that the chart shows no rocks close inshore to the mean high water line.

#### 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

Please refer to the compilation report, pages/8 and 2/ of the Descriptive Report.

Reviewed by:

Leo F. Beugnet Cartographer

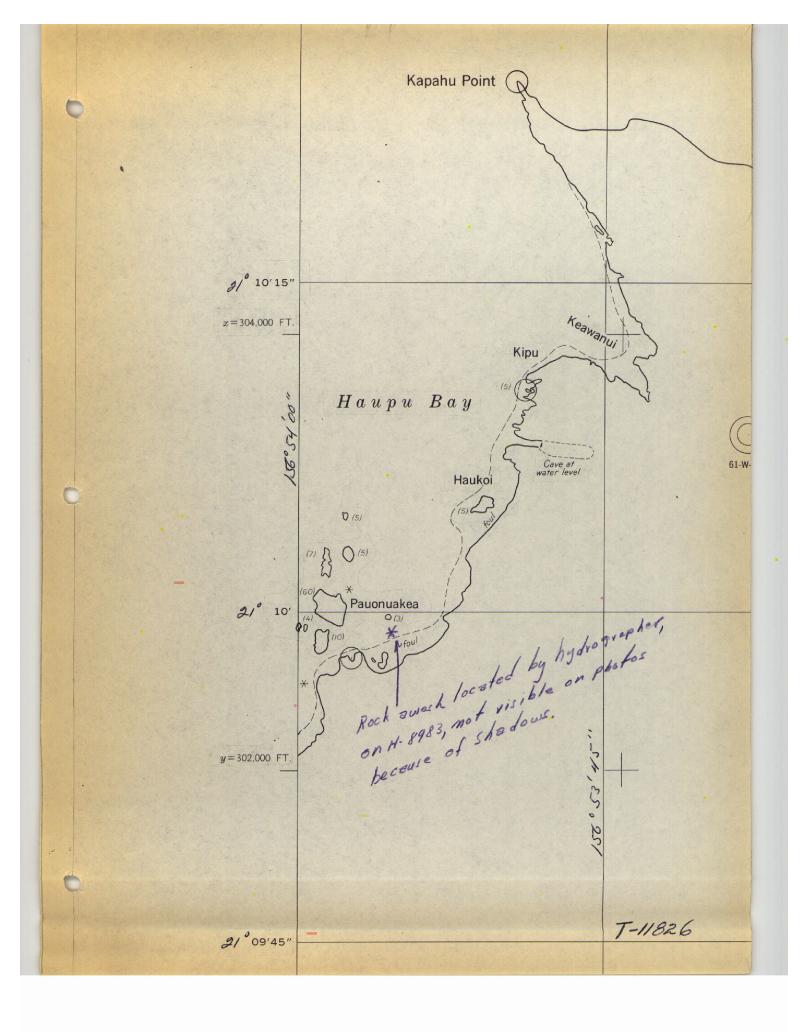
Approved by:

Allen L. Powell, RADM, NOAA

Director, Atlantic Marine Center

Approved by:

Chief, Photogrammetric Branch Chief, Photogrammetry Division



foul	* awash MHW  Not on Boat  Mokumanu  (30)	Paueono 21° 18' 15"
H a u	Py Andrew + the property of th	Waaula Pelek Naninini
150 53'30"	- 21° 09' 451	T-11826

