# 11975

のつけ

Diag. Cht. No. 4116.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Ph-20045 Office No. T-11975

LOCALITY

HAWAII

General locality LANAI | BLAND

Locality KAUNOLU BAY

1960-19 62

CHIEF OF PARTY
WILBUR R. PORTER, CHIEF OF PARTY
FRED NATELLA, PHOTOGRAMMETRIC UNIT

LIBRARY & ARCHIVES

DATE September 1964

USCOMM-DC 5087

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

,	DESCRIPTIVE RI	T = 11975		
PROJECT NO. (II):	<del></del>		·	<u></u>
	21045			
FIELD OFFICE (II):			CHIEF OF PARTY	WILBUR R. PORTE
	Honolulu, Hawaii		UNIT CHIEF	L. F. VAN Scoy
PHOTOGRAMMETRIC OFFICE (III):			OFFICER-IN-CHARGE	
	PORTLAND, OREGON			FRED NATELLA
NSTRUCTIONS DATED (II) (III):	JULY 31, 1962 4			
AMENDMENT I:		 		
AMENDMENT II:		111		
AMENDMENT III:	· · · · · ·	H		
AMENDMENT IV:	SEPT. 30, 1963	111		
		^		
ETHOD OF COMPILATION (III):	,			
	Kelsh Instrument		-	
NUSCRIPT SCALE (III):		STEREOSC	OPIC PLOTTING INSTRU	MENT SCALE (III):1:5000
	1:10,000	PANTOGE	RAPH SCALE:	1:10,00
ATE RECEIVED IN WASHINGTON	OFFICE (IV):	DATE REP	ORTED TO NAUTICAL C	HART BRANCH (IV):
DELIER TO SULPE US		DATE:		
PPLIED TO CHART NO.		DATE		TE REGISTERED (IV):
EOGRAPHIC DATUM (III);			VERTICAL DATUM (III	1):
				CEPT AS FOLLOWS: X
	0		1	5) refer to mean high water
	OLD HAWAIIAN		i.e., mean low water or	) refer to sounding datum mean lower low water
	<u></u> .		]	
EFERENCE STATION (III):	MANDLO 4007 40	<b>60</b>		
<b>.</b>	KAHOLO, 1927, 19		T	
,AT.:	LONG.:		ADJUSTED	
20° 45' 27.33"	156° 58' 52	.87"	X UNADJUSTED	
LANE COORDINATES (IV):	*	<u> </u>	STATE	ZONE
= 154,192.97	×= 392,486.71		   Hawaii	2

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

# **DESCRIPTIVE REPORT - DATA RECORD**

IELD INSPECTION BY (II):		DATE:
	OCT-DEC. 1962	
MEAN HIGH WATER LOCATION (III	(STATE DATE AND METHOD OF LOCATION):	
	OCTOBER-DECEMBER BY FIELD INSPEC	TION.
	COMPILATION BY KELSH INSTRUMENT.	
	•	
PROJECTION AND GRIDS RULED	ry (IV):	DATE
:	A.Ŗ.	6-25-63
· · · · · · · · · · · · · · · · · · ·		
PROJECTION AND GRIDS CHECKE	D BY (IV):	DATE
,	R.G.	6-26-63
CONTROL PLOTTED BY (III):		DATE
	L.L. GRAVES	8-27-63
	L.L. GRAVES	0=21-03
CONTROL CHECKED BY (III):		DATE
	D U Maura	9 07 67
	R.H. Meyer	8-27-63
		:
RADIAL PLOT OR STEREOSCOPIC	CONTROL EXTENSION BY (III):	DATE
	HENRY P. EICHERT	Aug. 1963
	HENRY F. EICHERT	AUG. 1983
STEREOSCOPIC INSTRUMENT CON	PILATION (III): PLANIMETRY	DATE
	L.L. GRAVES	9-9-63
	CONTOURS	DATE
	None	_
MANUSCRIPT DELINEATED BY (II		DATE
SMOOTH DRAFT:	C. C. HARRIS	9_16_63
CRIBING BY (III):		DATE
Stick-up:	C. C. HARRIS	9-27-63
PHOTOGRAMMETRIC OFFICE REV	IEW BY (III):	DATE
ROUGH DRAFT:	D. N. WILLIAMS	9-10-63
Advance:	J. E. DEAL	9_30_63
REMARKS:		<del></del>
1 1	• •	

#### U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

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

CAMERA (KIND OR SOURCE) (III):

C&GS SINGLE LENS "W"

		MATE TEMP			-	
	PH	OTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	s <sup>1</sup>	AGE OF T	DE
60 W 2400 THRU 2405	10-6-60	08:50 OF ABOVE AT 1	1:25,000	1.0" A	BOVE M.I	.L.W.
61 W 1257 THRU 1260	9-27-61	09:10	1:15,000	1.5'	m	Ħ
62 W 2469 THRU 2471	2-1-62	OF ABOVE AT 1 08:55	1:25,000	0.2'	11	n
61 W 1164 THRU 1170	9-26-61	08:45	1:15,000	1.0'	Ħ	11
61 W 1188 THRU 1190	3=20=01	08:50	1.10,000	n	II :-	п
Color Photographs	}	00:50	}			
60 W 2748 THRU 2749	10_12_60	08:50	1:10,000	2.0'	tr	п
60 W 7230 THRU 2735	10-12-00	08:45	1110100	in in	n	n
60 W 2697 THRU 2699B	10_11_60	08:35	1t	11	11 11	
		00100		Сомрита	D FROM	PRE-
					TIDE TA	
	1	TIDE (III)				
•				RATIO OF RANGES	MEAN RANGE	-OPR#H
REFERENCE STATION:	HonoLulu				1.2	1.9
SUBORDINATE STATION:	LAHAINA, MAU	ı			1.3	2.0
SUBORDINATE STATION:						
WASHINGTON OFFICE REVIEW BY	(IV):			DATE:	•	<u> </u>
WASHINGTON OF FICE MEATER DI						
PROOF EDIT BY (IV):			<u></u>	DATE:		
	ATIONS SEARCHED FOI	R (II): 3	RECOVERED: 3	DATE:	.o. 2	
PROOF EDIT BY (IV):		R (II): 3	RECOVERED: 3		2 	
PROOF EDIT BY (IV): NUMBER OF TRIANGULATION STA	PR (III):	None	RECOVERED:	IDENTIFIE	2 	
PROOF EDIT BY (IV):  NUMBER OF TRIANGULATION STA  NUMBER OF BM(S) SEARCHED FO	TO STATIONS ESTABLE	NONE SHED (III): NON	RECOVERED:	IDENTIFIE	2 	
PROOF EDIT BY (IV):	TO STATIONS ESTABLE	NONE SHED (III): NON	RECOVERED:	IDENTIFIE	2 	

# FIELD INSPECTION REPORT

# MAP MANUSCRIPT T-11975

# PROJECT 21045

REFER TO THE FIELD INSPECTION REPORT FOR THE ENTIRE PROJECT INCLUDED WITH THE DESCRIPTIVE REPORT FOR T-11972.

# PHOTOGRAMMETRIC PLOT REPORT

# MAP MANUSCRIPT T-11975

PROJECT 21045

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT BY HENRY P. EICHERT, AUGUST 1963 AND INCLUDED WITH THE DESCRIPTIVE REPORT FOR T-11972.

FORM **164** (4.23.54)

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

SPAST AND GEODETIC SURVEY ROL RECORD

COMM- DC-57843 FROM GRID OR PROJECTION LINE IN METERS 9 (BACK) FORWARD SCALE FACTOR DISTANCE FROM GAIO OR PROJECTION LINE IN METERS (BACK) N.A. 1927 - DATUM FORWARD DATUM SCALE OF MAP 1:10,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) FORWARD LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE 146,160.22 397,148.66 146,338,08 397,536.25 392,486.71 154,192.97 PROJECT NO. 21045 OLD HAWAI-IAN 2 DATUM = Ħ SOURCE OF INFORMATION (INDEX) UNADJ. KAHOLO 1927, 1962FIELD COMP. = ₽ MAP T- 11975 PALADA PO INT (U.S.L.H.S.) STATION LIGHT, 1962 KAEA, 1914

8-2-63

DATE.

COMPUTED BY. D.N.W.

1 FT.= 3048006 METER

CHECKED BY:..

R.H.M.

DATE.

8-26-63

#### COMPILATION REPORT

#### MAP MANUSCRIPT T-11975

#### PROJECT 21045

#### TEMS 31 THRU 34:

REFER TO THE COMPILATION REPORT FOR T-11972.

# 35. SHORELINE AND ALONGSHORE DETAILS:

Compilation of the mean high water line was accomplished by modifying the spot location furnished by the field unit to conform with the shoreline apparent on the high-water color photography. In the vicinity of 156° 55' 30" longitude where shadows obscured the shoreline, color photography was used to compile the mean high water line. Extensive use of the color photographs was made in determining the limits of ledges and reefs as well as the areas enclosed with a dashed line and labeled "foul". Locations of rocks showing elevations were obtained from data furnished by the field party, the heights being adjusted to the manuscript datum. All' rocks which do not show baring data were delineated during Kelsh compilation and from stereoscopic examination of the color photography. These should be investigated or confirmed by the hydrographer.

PHOTOGRAPHY DID NOT PERMIT COMPILATION OF A MEAN LOWER LOW WATER LINE.

No buildings could be determined in the vicinity of a Bettlement named MAMAK! East of Palaga Point.

#### 36. OFFSHORE DETAILS:

NONE.

# 37. LANDMARKS AND AIDS:

ONE FIXED AID TO NAVIGATION WAS LOCATED BY TRIANGULATION AND IS SHOWN ON THIS MANUSCRIPT.

FORM 567 IS SUBMITTED.

#### 38. CONTROLS FOR FUTURE SURVEYS:

SIXTEEN PHOTO-HYDRO STATIONS WERE IDENTIFIED BY THE FIELD PARTY AND LOCATED DURING KELSH INSTRUMENT COMPILATION. THEIR NUMBERS AND DESCRIPTIONS ARE LISTED IN PARAGRAPH 49, NOTES FOR THE HYDROGRAPHER.

#### 39. Junctions:

Satisfactory Junctions were made with T=11974 on the north and with T=11976 to the East.

KEALAIKAHIKI CHANNEL IS ON THE SOUTH AND THE PACIFIC OCEAN IS ON THE WEST.

#### 40. Horizontal and Vertical Accuracy:

REFER TO THE COMPILATION REPORT FOR T-11972.

## 46. COMPARISON WITH EXISTING MAPS:

REFER TO THE COMPILATION REPORT FOR T-11972.

#### 47. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Nautical Chart 4130, scale 1:80,000 at Lat. 20° 51', 3rd edition Dec. 30, 1936, revised 4-26-62.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE .

ITEMS TO BE CARRIED FORWARD:

· None .

APPROVED:

RESPECTFULLY SUBMITTED:

FRED NATELLA, CAPT, C&GS

PORTLAND DISTRICT OFFICER

JAMES L. HARRIS Cartographer

#### 49. Notes to the Hydrographer - T-11975

THE FIELD INSPECTOR REQUESTED THE HYDROGRAPHER TO INVESTIGATE ROCKS OFFSHORE AS INDICATED BY NOTE ON OVERLAY.

Foreshore areas were delineated from color photography by use of stereoscope and vertical projector. None of the limit lines shown are intended to represent approximate lower low-water lines but are shown to assist the hydrographer when navigating close to shore.

When using shoreline pass points on a single photograph to Locate additional photo-hydro signals the photographs should be examined by use of a stereoscope so that it may be determined which points of the same elevation as that of a point to be located may be used.

ROCKS FOR WHICH BARING DATA IS NOT SHOWN WERE DELINEATED BY THE COMPILER AND LOCATED BY KELSH INSTRUMENT. THESE SHOULD BE VERIFIED BY THE HYDROGRAPHER.

PHOTO-HYDRO POINTS SELECTED BY THE FIELD INSPECTOR WERE LOCATED BY KELSH INSTRUMENT AS IDENTIFIED. THEY ARE:

No •	DESCRIPTION	FIELD PHOTO
7501	Rock -	62 W 2470
7502	Rock	11
7503	POINT LOW BLUFF	11
7504	SMALL BUSH BY TREE	ŗi
7505	LARGE BUSH	Ħ
7506	Small lone tree	u
7507	POINT OF BLUFF	
7508	SMALL TREE ON POINT OF BLUFF	1f
7509	SMALL TREE	n
7510	Edge of Bluff	61 W 1189
7511	Small tree	11
7512	HIGH POINT OF POO POO ISLAND	n
7513	Small tree	11
7514	SMALL TREE ON BLUFF	π
7515	SMALL TREE ON BLUFF	n
7516	Small tree on bluff	n

C&GS FORM 1002 (11-13-61)			·	I.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY
	PHO		TRIC OFFICE REVIEW	
		· <b>T</b> •	11975	
1. PROJECTION AND GRIDS	2. TITLE	·	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
	1			
CONTROL STATIONS				
5. HORIZONTAL CONTROL ST	ATIONS OF	6. RECOVERA	BLE HORIZONTAL STATIONS HAN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
THIRD-ORDER OR HIGHER	ACCURACY	(Topographi	c stations)	•
<u> </u>			None	
8. BENCH MARKS	9. PLOTTING FIXES	OF SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
None	Non	ne		None
			<u> </u>	
ALONGSHORE AREAS (Nautica 12. SHORELINE	1 Chart Date)	BIME	14. ROCKS, SHOALS, ETC.	15. BRIDGES
12. SHURELING	J .		14. ROCKS, SHOALS, ETC.	1
	No	10		None
16. AIDS TO NAVIGATION	17. LANDMAR	KS	18. OTHER ALONGSHORE	19. OTHER ALONGSHORE CULTURAL FEATURES
	Non	a	PHYSICAL FEATURES	CULTURAL FEATURES
	1000			
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOUR
-		· ·		None
		<u></u>		
23. STEREOSCOPIC INSTRUMENT CONTOURS	1 - "	S IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
None	Non	e	None	-
CULTURAL FEATURES	<u> </u>		<u> </u>	
27. ROADS	28. BUILDING	<u>.</u> S	29. RAILROADS	30. OTHER CULTURAL
None	Non		None	FEATURES
. 1401/6	10011	•	77077	
BOUNDARIES	<del></del>		<u> </u>	
31. BOUNDARY LINES			32. PUBLIC LAND LINES	
None	シ <u>ーーーー</u>		None	<b>,</b>
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION		las . sersi
33. GEOGRAPHIC NAMES		34. JUNCTION	15 	35. LEGIBILITY OF THE
		İ		
36. DISCREPANCY OVERLAY	37. DESCRIPT	IVE REPORT	38. FIELD INSPECTION	39. FORMS
None:			PHOTOGRAPHS	
NON				
40. REVIEWER	<del></del>		SUPERVISOR, REVIEW SECTI	ON OR UNCT
D.N.Willie	ms		1 0/0	, >>
			Zawa	ed Deal
41. REMARKS (See attached she				
FIELD COMPLETION ADDITION				·
<ol> <li>Additions and correction script is now complete ex</li> </ol>	s fumished by the	he field completed	tion survey have been applied	to the manuscript. The manu-
COMPILER		- Tem 45.	SUPERVISOR	
•				
			1	
43. REMARKS			<u> </u>	
·				
-				

USCOMM-DC 16252-P61

# 48. Geographic Names List

Anapuka Cove
Huawai Bay
Kaunolu Pay
Kealaikahiki Chameel
Kolokolo Cave
Kuahulua Bay
Lanai Island
Mamaki
Moku Naio Island
Pacific Ocean
Palaoa Foint
Pali Kaholo
Poopoo Island

Sographic Names Section February 1964

## Review Report

## Shoreline Maps

# T-11966 through T-11976

### July 1964

# 61. General Statement

These shoreline maps of Project PH-6202 Lanai, Hawaii were prepared to furnish hydro support-data and base maps for our nautical and aeronautical charting programs.

# 62. Comparison with Registered Topgographic Surveys

T-3435	1:20,000	1914
T-4304	1: 5,000	1927
T-4304a	1: 2,500	1928
T-4745	1:20,000	1932
T-4780	1: 5,000	1931

Differences exist between these surveys - generally in the main shoreline and the shapes of some of the islands. The subject surveys are to supersede the above listed maps of common areas for nautical charting purposes.

# 63. Comparison with Maps of Other Agencies

Island of Lanai

1:62,500

1923

Because of the scale difference only a visual comparison can be made. The subject surveys are more complete and supersede the above survey for common area.

# 64. Comparison with Contemporary Hydrographic Surveys

None

# 65. Comparison with Nautical Charts

4120	1:80,000	Edition 1942	Revised Feb.1963
4130	1:80,000	Edition 1936	Revised Apr.1962
4122	1: 2,500	Edition 1929	Revised Apr.1951

Differences exist. However, there are no items to be applied immediately.

# 66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for Nautical Charting.

Reviewed by:

C. Lande

Approved by:

Chief, Photogrammetric Branch

Chief, Nautical Chart Division

Chief, Photogrammetry Division

Acting

#### NAUTICAL CHART DIVISION

#### **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

#### INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
4120	11/3/65	Mi Millan	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. Cretical Corn only
4130	2/16/65	H. R. Johnson	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
	<u> </u>		Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
<del></del> ,	<u>.                                    </u>		Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
	<u></u>	<u> </u>	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
	<u></u>		Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
		<u> </u>	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
	<u></u>		Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
<u> </u>	<u></u>		Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
<del></del>			