11973

D W

1070

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-21045 Office No. T-11973

LOCALITY

State HAWAII .

General locality LANA!

Locality ANAPUKA COVE

1960-19 62

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

LIBRARY & ARCHIVES

DATE September 1964

USCOMM-DC 5087

FORM C&GS-181a

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

·	DESCRIPTIVE REP	ORT - DATA		,	
PROJECT NO. (II):				_ 	
21045					
FIELD OFFICE (II):			CHIEF OF PARTY	WILBUR R. PORTER	
Honolulu,	HAWAII		Unit Chief,	L. F. VAN SCOY	
PHOTOGRAMMETRIC OFFICE (III):			OFFICER-IN-CHARGE	<u> </u>	
Portland,	OREGON			FRED NATELLA	
AMENDMENT 1: AMENDMENT 11: AMENDMENT 11: AMENDMENT 11: AMENDMENT 11: AMENDMENT 1V:	JULY 31, 1962 11 DEC. 18, 1962 111 MAY 23, 1963 111 JUNE 24, 1963 111 JULY 9, 1963 111 SEPT. 30, 1963 111				
METHOD OF COMPILATION (III):	Kelsh Instrument				
ANUSCRIPT SCALE (HI):		STEREOSCO	OPIC PLOTTING INSTRUM	ENT SCALE (III): 1:5000	
-	1:10,000	PANTOGR	RAPH Scale: & 1:3000 1:10,000		
DATE RECEIVED IN WASHINGTON OF	FICE (IV):	DATE REPO	DRTED TO NAUTICAL CH	<u>-</u>	
APPLIED TO CHART NO.		DATE:	DAT	E REGISTERED (IV):	
GEOGRAPHIC DATUM (III): OLD HAWAIIAN			VERTICAL DATUM (III): MEAN SEA LEVEL EXCEPT AS FOLLOWS: X Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water		
REFERENCE STATION (III):					
	HONOPU, 1962				
LAT.:	LONG.:		ADJUSTED		
20° 50' 02.21"	156° 58' 55.15"		X UNADJUSTED		
PLANE COORDINATES (IV):			STATE	ZONE	
Y = 181,926.45	×= 392,324.51		HAWAII	2	
ROMAN NUMERALS INDICATE WHETH OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSON					

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

DATE: FIELD INSPECTION BY (II): L. F. VAN SCOY Oct-Dec. 1962 MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): · October-December 1962 by field inspection. COMPILATION BY KELSH INSTRUMENT. PROJECTION AND GRIDS RULED BY (IV): DATE A.R. : 6-24-63 PROJECTION AND GRIDS CHECKED BY (IV): DATE R**.≵.**G. -6-25-63 CONTROL PLOTTED BY (III): DATE L. L. GRAVES 7-17-63 DATE CONTROL CHECKED BY (III): 7-7-63 D. N. WILLIAMS RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): HENRY P. EICHERT August 1963 DATE STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY R. H. MEYER 7-31-63 CONTOURS DATE NONE DATE MANUSCRIPT DELINEATED BY (III): SMOOTH DRAFT: J. L. HARRIS 8-7-63 SCRIBING BY (III): DATE STICK-UP: D. N. WILLIAMB 8-14-63 PHOTOGRAMMETRIC OFFICE REVIEW BY (III): DATE Rough Draft: D. N. WILLIAMS 8-1-63 Advance: J. E. DEAL 8-14-63 REMARKS:

USCOMM-DC 16276B-P61

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

	C&GS SINGLE L	EN8 "W"				
	PHO	TOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	S	TAGE OF TI	DE
61W 1252 AND 1253	9-26-61	09:15	1:15,000	· 1.61 A	BOVE M.	L.L.W.
62 W 2474 THRU 2478	2-1-62	08:00	1:25,000	0.91	11	17
RATIO PRINTS OF A			1,20,000	0-0		
62 W 2462 THRU 2465	2-1-62	08:00	ıı ı	0.91	п	11
60 W 2205 AND 2206	10-2-60	10:20	11	0.7'	Ħ	19
62 W 2458 AND 2459	2-1-62	08:00	17	0.9'	ti .	n
OE 2400 AND 2400	22,202	00.00		0.0		
	COLOR PHOTO	GRAPHS				
80 W 2740 AND 2741	10-12-60	08:50	1:10,000	1.9'	n	н
60 W 3279 THRU 3283	10-22-60	08:50	1:10,000	1.4'	n	Ħ
OO II DEID JARO GEOO	10=22=00	00.50	1.10,000	'•Ŧ	•	
				COMPILE	ED FROM	PBE_
					TIDE T	
				0,0,0		
		TIDE (III)			·	is i iiski
				RATIO OF		PEPP
				RANGES	RANGE	RANG
REFERENCE STATION:	Henotutu				1.2	1.9
UBORDINATE STATION:	KAUMALAPAU			. •	1.5	2.2
UBORDINATE STATION:		<u></u>				
VASHINGTON OFFICE REVIEW BY	(NV).			DATE:	<u></u>	<u></u>
PROOF EDIT BY (IV):	(10):			DATE:		
					·	
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 6			IDENTIFII	ED: 2		
UMBER OF BM(S) SEARCHED FO	R (II):	None	RECOVERED:	IDENTIFII	ED	
NUMBER OF RECOVERABLE PHOT	TO STATIONS ESTABLISH	HED (III): NONE	 			
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS ESTAI	BLISHED (III):	6			
REMARKS:		<u> </u>		 		
	,					

FIELD INSPECTION REPORT

MAP MANUSCRIPT T-11973

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-11973

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)

MAP T. 11973

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

PROJECT NO. 21045

SCALE OF MAP 1:10,000 ROL RECORD

COAST AND GEODETIC SURVEY

SCALE FACTOR

COMM- DC-57843 FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS 9, (BACK) FORWARD DISTANCE FROM GAID OR PROJECTION LINE IN METERS (BACK) 484.3 N.A. 1927-DATUM 234.4 604.1 632.k 0 ď 5995.4 8/65 19 5280,5 1441.9 6233. 1802-4987 211 FORWARD 289.6 619.3 891.2 DATUM OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) 4,730.64 6, \$26/45 13, 16B, 15 4,230.94 20,449.44 3/411/04 475.68 16,361.47 17,324.51 21, 193.56 /3,016 6,924 FORWARD LATITUDE OR y-COORDINATE
LONGITUDE OR x-COORDINATE 181.926.45 195,449,44 388,108,15 194,230,94 179,730,64 387,475,68 196,193,55 391,361,47 388,411.04 392,324,51 383,016 187,924 HAWAI-DATUM OFO = E Ė E SOURCE OF INFORMATION L.COOR. UNADJ. Freld Comp. (INDEX) P-10 = = 1 FT. = .3048006 METER KANEPUU, 1879 HONOPU, 1962 STATION NANA, 1927 GALE, 1927 WIND, 1927 LOST, 1927

7-17-63

DATE...

L.L.G.

CHECKED BYS.

7-17-63

DATE.

COMPUTED BY: D.N.W.

COMPILATION REPORT

MAP MANUSCRIPT T-11973

PROJECT 21045

31, DELINEATION:

REFER TO THE COMPILATION REPORT FOR T-11972. THREE COLOR PHOTOGRAPHS OF THE STRIP INTENDED TO COVER THE SHORELINE ON THIS MANUSCRIPT SHOWED LITTLE OR NO LAND AND CONSEQUENTLY WERE VALUE-LESS IN CHECKING SHORELINE DETAIL.

TEMS 32 THRU 36:

REFER TO THE COMPILATION REPORT FOR T-11972.

37. LANDMARKS AND AIDS:

One aeronautical aid, aniintersection triangulation station, is located beyond the limits of this project. Form 567 is sub-

38. CONTROLS FOR FUTURE SURVEYS:

SIX PHOTO-HYDRO STATIONS WERE IDENTIFIED BY THE FIELD UNIT 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 to the south and with T=11972 to the west. There is no junction of planimetry with T=11967 on the north. There is no contemporary survey to the east.

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:

FRED NATELLA, CAPT, C&GS FORTLAND DISTRICT OFFICER

RESPECTFULLY SUBMITTED:

JAMES L. HARRIS

CARTOGRAPHER

49. Notes for the Hydrographer - T-11973

LISTED BELOW ARE SEVERAL OBJECTS SELECTED BY THE FIELD INSPECTOR FOR PHOTO-HYDRO SIGNALS AND LOCATED BY KELSH INSTRUMENT.

No •	DESCRIPTION	FIELD PHOTO NO.
7301	ROCK BARES 3 FT. M.H.W.	60 W 2205
7302	ROCK BARES 6 ET. M.H.W.	60 W 2205
7303	OFFSHORE END ROCK PROJECTION	60 W 2205
7304	OFFSHORE END ROCK PROJECTION	60 W 2206
7305	LOW PINNACLE ROCK	60 W 2206
7306	POINT OF BLUFF	62 W 2457

PASS POINTS HAVE BEEN LOCATED AT OR NEAR THE WATER LEVEL ABOUT EVERY MILE ALONG THE SHORELINE AND THESE SHOULD BE USED WHEN LOCATED ADDITIONAL PHOTO-HYDRO SIGNALS IDENTIFIED DURING THE TIME OF THE HYDROGRAPHIC SURVEY.

C&GS FORM 1002 (11-13-61)				S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
	PHO	TOGRAMMET	RIC OFFICE REVIEW		
		T-	1 036 3 //973		
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE	
CONTROL STATIONS	:		'		
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF	6. RECOVERA	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS	
MINDLONGER OR MORERY	TOO DRAC!	(Topographic	c stations) None		
8, BENCH MARKS	9. PLOTTING	OF SEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS	
None	None	 L	PLOT REPORT	None	
ALONGSHORE AREAS (Nautica	(Cheet Data)				
12. SHORELINE	13. LOW-WATE	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES	
	Non) e		None	
16. AIDS TO NAVIGATION	17. LANDMARI		18. OTHER ALONGSHORE PHYSICAL FEATURES	19, OTHER ALONGSHORE CULTURAL FEATURES	
None	_ No	ne		None	
PHYSICAL FEATURES					
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS	
		}		None	
23. STEREOSCOPIC INSTRUMENT CONTOURS		S IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES	
None	Non	e	None	4	
CULTURAL FEATURES	I 30		100		
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES	
None	None		None	None	
BOUNDARIES					
31. BOUNDARY LINES None		32, PUBLIC LAND LINES None			
MISCELLANEOUS		•			
33. GEOGRAPHIC NAMES		34. JUNCTION	s	35. LEGIBILITY OF THE	
				MANUSCRIP!	
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION	39. FORMS	
None	:		PHOTOGRAPHS	-	
40. REVIEWER			SUPERVISOR, REVIEW SECTION	ON OR UNIT	
D. N. Wittiams		Kedward Donl			
41. REMARKS (See attached she					
FIELD COMPLETION ADDITION					
script is now complete ex-	furnished by the cept as noted un	e field complet der item 43.	ion survey have been applied	to the manuscript. The manu-	
COMPILER			SUPERVISOR		
				•	
43. REMARKS			<u> </u>		
•					
,					
i i					

48. Geographic Names List

Anapuka Cove Five Needles Honopu Bay Honopu Gulch Keone Bay Lanai Island Naupaka Foint Pacific Ocean

> Geographic Names Section Rebruary 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 1:6

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:

L.C. Nande

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. _T-11973

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
420	11/2/65	Ma Millan	Full Part Before After Verification Review Inspection Signed Via
	7		Drawing No. Critical case anly
130	1/30/67	91: N. Mad	Part Before After Verification Review Inspection Signed Via
	1		Drawing No. Critical corrections app vous
			4120 Pwg # 7
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
	<u> </u>		Full Part Before After Verification Review Inspection Signed Via
	<u> </u>		Drawing No.
		<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.
			Full Part Before After Verification Review Inspection Signed Via
	<u></u>		Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
	<u> </u>		
-	<u> </u>	<u> </u>	
	1	1	<u> </u>