

# 11922

Dia. Cht. No. 4116.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Ph-6012 Office No. T-11922

### LOCALITY

State Hawaii

General locality Mauí Island

Locality Maalaea Bay

1960 - 1961

### CHIEF OF PARTY

H. J. Seaborg, Honolulu District Office  
Wm. E. Randall, Baltimore District Office

### LIBRARY & ARCHIVES

DATE 1967

USCOMM-DC 5087

10/5/67 - 5501

11922

DESCRIPTIVE REPORT - DATA RECORD  
T -11922

PROJECT NO. (II):  PH-6012		
FIELD OFFICE (II):  Honolulu District Office		CHIEF OF PARTY  H. J. Seaborg
PHOTOGRAMMETRIC OFFICE (III):  Baltimore District Office		OFFICER-IN-CHARGE  William E. Randall
INSTRUCTIONS DATED (II) (III):  14 November 1960 28 November 1960 13 June 1961 27 December 1961 16 January 1962 1 April 1963		
METHOD OF COMPILATION (III):  Kelsh Plotter		
MANUSCRIPT SCALE (III):  1:5,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):  1:5,000
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III):  Old Hawaiian		VERTICAL DATUM (III): <del>MEAN SEA LEVEL EXCEPT FOR POLARONS:</del> MHW 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):  WAIAKOA, 1950		
LAT.:  20° 46' 44.205"	LONG.:  156° 27' 09.228"	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV):  Y = 161, 892.72 FT.      X = 573,138.51 FT.		STATE  Hawaii
		ZONE  2
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.		

## DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (III):  J. C. Lajoie		DATE:  Feb. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Mean high water line located by Kelsh Plotter using October 5, 1960 photography and revised using the photography of 23 and 24 September 1961.		
PROJECTION AND GRIDS RULED BY (IV):  RAC		DATE  6 Dec. 1960
PROJECTION AND GRIDS CHECKED BY (IV):  JDC		DATE  6 Dec. 1960
CONTROL PLOTTED BY (III):  D. M. Brant		DATE  18 April 1961
CONTROL CHECKED BY (III):  H. P. Eichert		DATE  18 Dec. 1961
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  Aerotriangulation - Washington Office		DATE
STEREOSCOPIC INSTRUMENT COMPILATION (III):  D. M. Brant	PLANIMETRY  D. M. Brant	DATE  April, 1962
	CONTOURS  Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):  D. M. Brant		DATE  April 1962
SCRIBING BY (III):  C. A. Lipscomb		DATE  August, 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  D. M. Brant		DATE  August 1963
REMARKS:  FIELD EDIT - 1961		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2336	5 Oct. 1960	0929	1:25,000	0.4 ft. above MLLW
60 W 2707	11 Oct. 1960	0901	1:25,000	0.5 ft. above MHW
61 W 764 thru 767	23 Sept. 1961	0905	1:15,000	0.1 ft. above MLLW
61 W 943	24 Sept. 1961	1126	1:15,000	0.5 ft. above MLLW

From Predicted Tide Tables

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Honolulu, Hawaii		1.2	1.9
SUBORDINATE STATION: Kihei, Maalaea Bay		1.6	2.3
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet - Atlantic Marine Center

DATE: Feb. 1966

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

0

RECOVERED:

0

IDENTIFIED:

0

NUMBER OF BM(S) SEARCHED FOR (III):

0

RECOVERED:

0

IDENTIFIED

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

9

REMARKS:

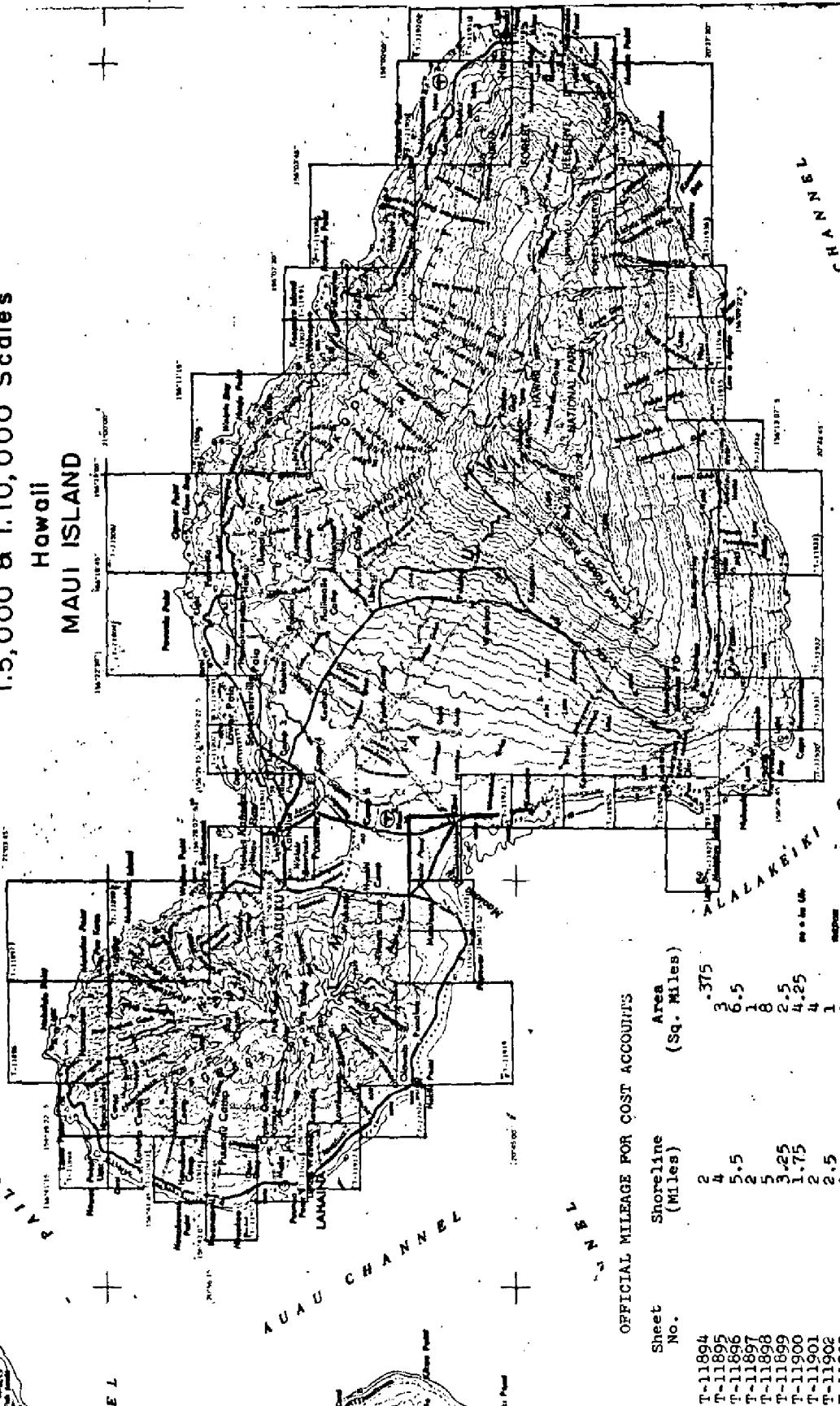
COMPILATION RECORD	COMPLETION DATE	REMARKS
Shoreline furnished for hydro	5 Dec. 1961	superseded
Shoreline revised from 1961 photography	13 Feb. 1962	
Smooth drafted, Compilation Completed	Aug. 1963	

# PROJECT PH-6012

## Planimetric Mapping

1:5,000 & 1:10,000 Scales

### Hawaii MAUI ISLAND



#### OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11894	2	.375
T-11895	4	3
T-11896	5.5	6.5
T-11897	2	1
T-11898	5	8
T-11899	3.25	2.5
T-11900	1.75	4.25
T-11901	2	1
T-11902	2.5	2
T-11903	5	6
T-11904	4.5	4
T-11905	6.5	10
T-11906	7	7.8
T-11907	5	6
T-11908	4.7	16
T-11909	.75	.25
T-11910	2.7	2
T-11911	27	3
T-11912	2.2	4.5
T-11913	2.5	2.2
T-11914	2.5	4
T-11915	2.5	2.6
T-11916	27	
T-11917		

#### OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11922	3	3
T-11923	2	3
T-11924	2.5	2.5
T-11925	2.5	1.5
T-11926	2.5	1
T-11927	1	.04
T-11928	3	1.5
T-11929	4.5	3

#### OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11931	2.5	1.5
T-11932	4.5	12
T-11933	5	8
T-11934	2.7	3
T-11935	2.5	4
T-11936	5	4
T-11937	5	4
T-11938	5	6

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11922

Shoreline survey T-11922 (1:5,000 scale) is one of 49 similar maps in this project. It covers a part of the coastline of Maui Island along the northeasterly shore of Maalaea Bay.

This was a stereoscopic instrument project in advance of hydrographic surveys to be made in the same area. Field operations preceding compilation included recovery and identification of horizontal control, field inspection and identification of photo-hydro signals.

The Stereoplanigraph was used for control extension. An adequate number of pass points were located for control of the models for Kelsh Plotter compilation methods. Compilation was at 1:5,000 scale and included the delineation of the mean high water line, alongshore detail, and the selection and identification of photo-hydro signals and pass points. A cronaflex copy was provided the hydrographer for preparation of the boat sheet. 1:5,000 scale ratio prints of the photography was subsequently provided for hydro-support purposes.

The manuscript is a vinylite sheet 2' 22.5" in latitude by 1' 52.5" in longitude. One cronar positive and one cronar negative are provided for record and registry.

## FIELD INSPECTION REPORT

Please refer to the Field Inspection Report for Maui  
Island, Hawaii bound with the Descriptive Report for T-11894.





# PHOTOGRAMMETRIC PLOT REPORT

Please refer to the Photogrammetric Plot Report for  
Maui Island, Hawaii bound with the Descriptive Report for  
T-11894.

10.

COMPILATION REPORT  
T-11922

Please refer to the compilation Report, which covers  
the compilation of Map Manuscripts T-11919 through T-11930,  
which is bound with the Descriptive Report for T-11919.

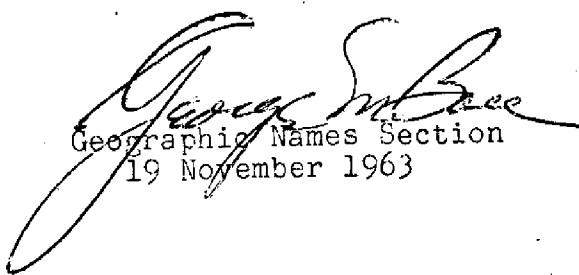
. T-11922

## 48. Geographic Names List

Kealia Pond  
Kihei

Maalaea Bay

Waiakoa Gulch



Geographic Names Section  
19 November 1963

49. NOTES TO THE HYDROGRAPHER

The following photo-hydro stations, identified by the field inspection party, were located during compilation.

2201	Red rag on bush	60 W 2336
2202	Center of concrete foundation	60 W 2336
2203	Rag on center bush of 3	60 W 2336
2204	Rag on bush	60 W 2336
2205	Red rag on bush	60 W 2336
2206	Lone tree	60 W 2336
2207	Life guard tower at park	60 W 2708
2208	Northwest of 6 piling at Kihei pier	60 W 2708
2209	Church steeple	60 W 2708

FORM 182 (8-61)		PHOTOGRAMMETRIC OFFICE REVIEW		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
50		7- 11922			
1. PROJECTION AND SPIDS  DMB		2. TITLE  DMB		3. MANUSCRIPT NUMBERS  DMB	
				4. MANUSCRIPT SIZE  DMB	
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY  DMB		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS)  NONE		
	7. PHOTO HYDRO STATIONS  DMB	8. BENCH MARKS  NONE	9. PLOTTING OF SEXTANT FIXES  NONE	10. PHOTOGRAMMETRIC PLOT REPORT  DMB	
	11. DETAIL POINTS  DMB				
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE  DMB	13. LOW-WATER LINE  DMB	14. ROCKS, SHOALS, ETC.  DMB	15. BRIDGES  NONE	
	16. AIDS TO NAVIGATION  NONE	17. LANDMARKS  DMB	18. OTHER ALONGSHORE PHYSICAL FEATURES  DMB		
	19. OTHER ALONGSHORE CULTURAL FEATURES  DMB				
PHYSICAL FEATURES	20. WATER FEATURES  DMB		21. NATURAL GROUND COVER  DMB		
	22. PLANETABLE CONTOURS  NONE		23. STEREOSCOPIC INSTRUMENT CONTOURS  INAPPLICABLE		
	24. CONTOURS IN GENERAL  INAPPLICABLE		25. SPOT ELEVATIONS  NONE		
	26. OTHER PHYSICAL FEATURES  DMB				
CULTURAL FEATURES	27. ROADS  DMB	28. BUILDINGS  DMB	29. RAILROADS  NONE		
	30. OTHER CULTURAL FEATURES  DMB				
BOUNDARIES	31. BOUNDARY LINES  NONE		32. PUBLIC LAND LINES  NONE		
MISCEL- LANEOUS	33. GEOGRAPHIC NAMES  DMB			34. JUNCTIONS  DMB	
	35. LEGIBILITY OF THE MANUSCRIPT  DMB	36. DISCREPANCY OVERLAY  DMB		37. DESCRIPTIVE REPORT  DMB	
	38. FIELD INSPECTION PHOTOGRAPHS  DMB		39. FORMS  DMB		
	SIGNATURE OF REVIEWER For: D. M. Brant <i>Joseph Steinberg</i>		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT <i>Joseph Steinberg</i>		
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT - Additions and corrections furnished by the field com- pletion survey have been applied to the manuscript. The manuscript now complete except as noted in remarks on reverse side.					
SIGNATURE OF COMPILER For: D. M. Brant <i>Joseph Steinberg</i>		SIGNATURE OF SUPERVISOR <i>Joseph Steinberg</i>			

## FIELD EDIT REPORT

Please refer to the Field Edit Report for Maui Island  
(Strips 1 through 7) bound with the Descriptive Report for  
T-11894.

REVIEW REPORT T-11922  
SHORELINE

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Planetable Survey No. 2462, made in 1900 at 1:10,000 scale and approved February 1, 1901.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle Maalaea, Hawaii, 1:24,000 scale, edition of 1954. The two maps are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-8582 (SU-05-3-61), 1:5,000 scale and SU-5-4-61. The shoreline for the boat sheets was obtained from a cronaflex copy of this manuscript.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4104, 1:10,000 scale, 4th edition, dated June 29, 1964. The Chart and the manuscript are in good agreement.



66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standards of Map Accuracy.

Reviewed by:

Leo F. Beugnet  
Leo F. Beugnet

Approved by:

J. C. Bull  
for J. C. Bull, CAPT.  
Atlantic Marine Center

Approved by:

L. J. Woodward Charles L. Lavin  
Chief, Photogrammetry Division Chief, Cartographic Branch  
Photogrammetric

SGR

Chief, Chart Division

Chief, Operations Division

