

11916

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-6012 Office No. T-11916

LOCALITY

State Hawaii

General locality Maui Island

Locality Puunoa Point

1960-1961

CHIEF OF PARTY

H. J. Seaborg, Honolulu District Office

Miller J. Tonkel, Baltimore District Office

LIBRARY & ARCHIVES

DATE 1967

USCOMM-DC 5087

11916

10/5/00 - 1162

DESCRIPTIVE REPORT - DATA RECORD

T -11916

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

Miller J. Tonkel

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):

~~MEAN SEA LEVEL EXCEPT AS FOLLOWS:~~ 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):

LAINA (HTS 1919) 1931

LAT.:

20° 53' 57.25"

LONG.:

156° 40' 15.278"



ADJUSTED



UNADJUSTED

PLANE COORDINATES (IV):

= 205,535.25

x = 498,551.43

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 (II):		DATE:
J. C. Lajoie		1961-62
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
The mean high water line was located by Kelsh Plotter using the October 5, 1960 photography aided by field inspection notes.		
PROJECTION AND GRIDS RULED BY (IV):		DATE
RAC		Nov. 1960
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
JDC		Nov. 1960
CONTROL PLOTTED BY (III):		DATE
D. M. Brant		April 1961
CONTROL CHECKED BY (III):		DATE
H. P. Eichert		April 1961
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
W. A. Kunics		March 1961
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	D. M. Brant	May 1961
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
L. A. Senasack		Nov. 1961
SKETCHING BY (III):		DATE
Drafting		
C. A. Lipscomb		Aug. 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
J. D. McEvoy		Oct. 1963
REMARKS:		
FIELD EDIT - 1962		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C. & G.S. "W" type camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2356 & 2357	5 Oct. 1960	09:44	1:25,000	0.3 above MLLW
60 W 2595 & 2596	10 Oct. 1960	09:00	1:25,000	0.5 above MHW

From Predicted Tide Tables

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Honolulu, Hawaii		1.2	1.9
COORDINATE STATION: Lahaina		1.3	2.0
SUBORDINATE STATION:			

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

DATE:
January 1966

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

5

IDENTIFIED:

3

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

RECOVERED:

None

IDENTIFIED:

None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

3

REMARKS:

4.

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for Hydro	12 April 1961	superseded
Shoreline revised	8 Nov. 1961	superseded
Final compilation	June 1963	

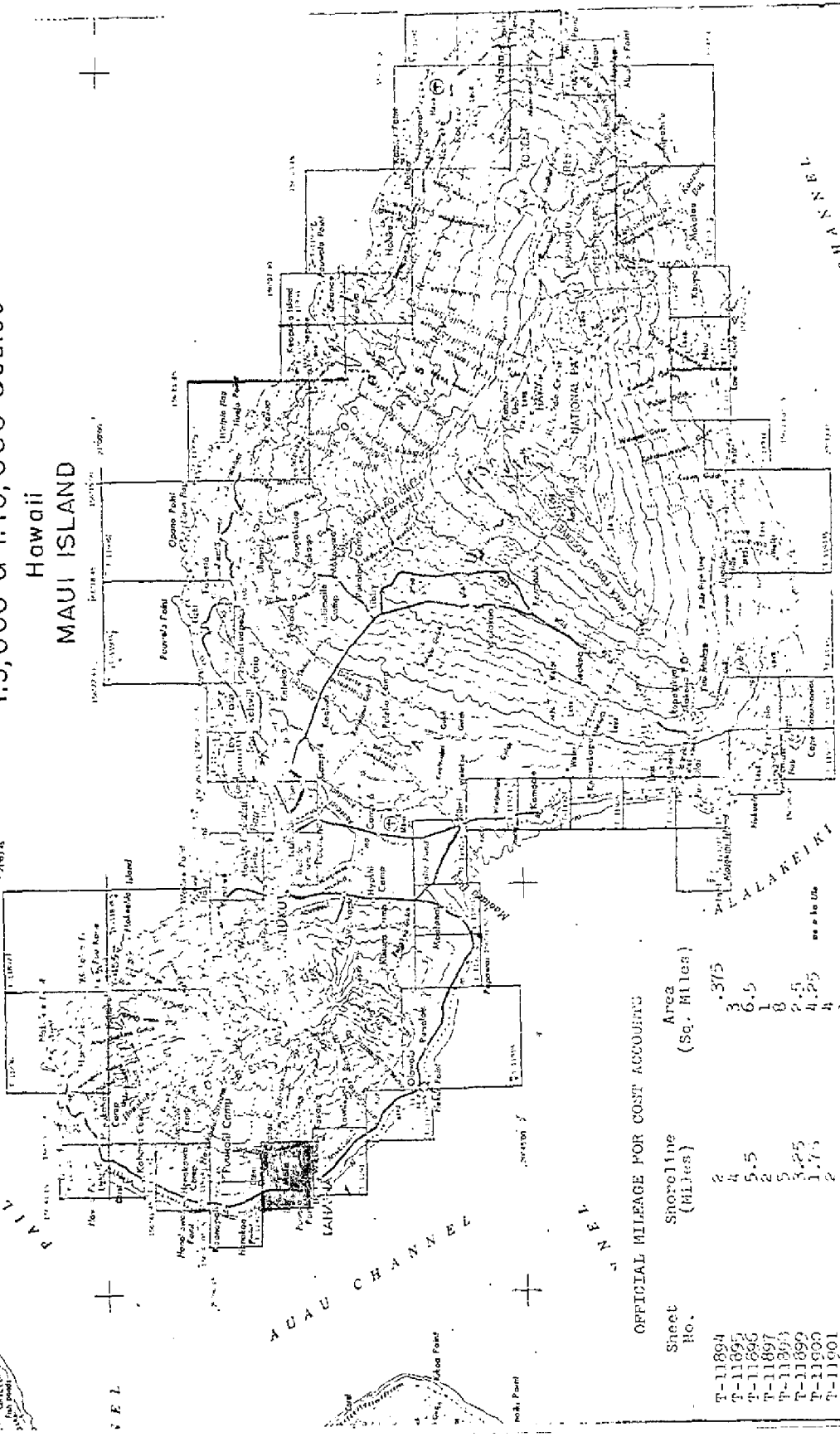
PROJECT PH-6012

Planimetric Mapping

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

Hawaii

MAUI ISLAND



OFFICIAL MILEAGE FOR COST ACCOUNTING

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11894	2	3.375
T-11895	4	3
T-11896	5.5	6.5
T-11897	2	1
T-11898	5	2.5
T-11899	3.25	4.25
T-11900	1.75	4
T-11901	2	1
T-11902	2.5	2
T-11903	2	1
T-11904	5	1
T-11905	4.5	6
T-11906	6.5	10
T-11907	7	7.8
T-11908	5	6
T-11909	4.75	16
T-11910	2.75	2
T-11911	2.7	3
T-11912	2.7	3
T-11913	2.5	2.5
T-11914	2.5	4
T-11915	2.5	2.6
T-11916	2.7	4
T-11917	3	4

OFFICIAL MILEAGE FOR COST ACCOUNTING

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)	Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11922	3	3	T-11931	2.5	1.5
T-11923	2	3	T-11932	4.5	12
T-11924	2.5	2.5	T-11933	2	3
T-11925	2.5	1.5	T-11934	2.7	3
T-11926	2.5	1	T-11935	2.5	4
T-11927	1	1	T-11936	5	4
T-11928	4.5	1.5	T-11937	5	4
T-11929	4.5	2	T-11938	4.5	6
T-11930	1.5	1.5	T-11939	4.5	5

67

6.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11916

Shoreline survey T-11916 (1:5,000 scale) is one of 49 similar maps in this project. It covers a part of the shoreline of Maui Island along the northwesterly coast from Latitude $20^{\circ} 52' 30''$ northward to Latitude $20^{\circ} 54' 22.5''$.

This was a stereoscopic instrument project in advance of hydrographic surveys to be made in the same area. The Zeiss Stereoplanigraph was used for bridging of control, compilation was by Kelsh Plotter using photography obtained in October 1960.

The field operations preceding compilation included field inspection, recovery and identification of horizontal control and identification of hydro signals. A cronaflex copy of the manuscript along with a set of ratio prints was subsequently provided for hydro support purposes.

The compilation manuscript is a vinylite sheet $01' 52.5''$ in latitude by $02' 22.5''$ in longitude. The registered copies of the survey will consist of a cronar film positive and a film negative.

FIELD INSPECTION REPORT
T-11916

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

Date-----

Checked by _____ Date _____

MAP T-11916

PROJECT NO. PH-6012

SCALE OF MAP

1:5,000

----- Date -----
SCALE FACTOR 1.000

[illegible]

1 FT. = 3048006 METERS

COMPUTED BY: J.C. Richter

DATE 11 July, 1962

CHECKED BY: D.M. Brant

DATE 17 July, 1962

COMM-DC-57843

PHOTOGRAMMETRIC PLOT REPORT

T-11916

Please refer to the Photogrammetric Plot Report for Maui Island,
Hawaii dated March 1961 bound with the Descriptive Report for T-11894.

COMPILATION REPORT
T-11916

Please refer to the Compilation Report bound with the Descriptive Report for T-11913 which covers the compilation of map manuscripts T-11913 through T-11918.

T-11916

48. Geographic Names List

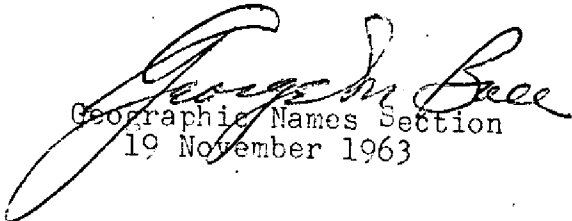
Kahoma Stream

Lahaina

Puunoa

Puunoa Point

also: Mala



Geographic Names Section
19 November 1963

49. NOTES TO THE HYDROGRAPHER

The following hydrographic signal sites, identified by the field inspection party, were located during compilation.

1601	North corner of pier	60 W 2596
1602	Electric pole with guy pole	60 W 2596
1603	North end of south guard rail	60 W 2596

FORM 182 (3-61) 50		PHOTOGRAMMETRIC OFFICE REVIEW T-11916		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
1. PROJECTION AND GRIDS 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 J. D. Mc Evoy <i>Joseph Steinberg</i>		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT <i>Joseph Steinberg</i>		
40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT - Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.					
SIGNATURE OF COMPILER <i>Joseph Steinberg</i>			SIGNATURE OF SUPERVISOR <i>Joseph Steinberg</i>		

For:

USE REVERSE SIDE FOR REMARKS

FIELD EDIT REPORT
T-11916

Please refer to the Field Edit Report for Maui Island, Hawaii
(strips 1 through 7) dated 17 August 1962 bound with the Descriptive
Report for T-11894.

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REVIEW REPORT
SHORELINE T-11916

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with a copy of Registered Planetable Survey No. 3268. This was a planetable survey made in 1912 and registered on March 30, 1914.

Shoreline manuscript T-11916 supersedes this prior survey and should be used for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. Lahaina, Hawaii quadrangle, 1:24,000 scale edition of 1956.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-8577, 1:10,000 scale (SU 10-2-61) and H-8581, 1:5,000 scale (SU 5-2-61).

The shoreline for the boat sheet was taken directly from a copy of the map manuscript.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with charts 4116, 1:250,000 scale, 12th edition dated August 17, 1964 and with chart 4130, 1:80,000 scale, 4th edition dated August 31, 1964.

The two stacks shown on these charts at Latitude 20° 52' 54" Longitude 156° 40' 00" and Latitude 20° 53' 24" Longitude 156° 41' 15" are not shown on this manuscript as landmarks because of the lack of field data.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Future surveys in the area should determine if the stacks referred to in item 65 are of landmark value.

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

J. Bull
J. Bull, Atlantic Marine Center

Approved:

L. F. Woodward
Chief, Photogrammetry Division

Chief, Chart Division

Charles L. Lunn
Chief, Cartographic Branch 568
Photogrammetric

Chief, Operations Division

