

11917

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-11917

LOCALITY

State Hawaii

General locality Maui Island

Locality Makila Point

1960-1962

CHIEF OF PARTY

H. J. Seaborg - Honolulu District Office

Miller J. Tonkel - Baltimore District Office

LIBRARY & ARCHIVES

DATE 1967

USCOMM-DC 5087

10560 - 1962

11917

DESCRIPTIVE REPORT - DATA RECORD

T-11917

PROJECT NO. (II):

PH-6012

FIELD OFFICE (III):

Honolulu, Hawaii

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
16 January 1962

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):

LAHAINA NORTHWEST BASE, 1950

LAT.:

20° 51' 58.432"

LONG.:

156° 40' 18.169"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

= 193,546.85

x = 498,276.94

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 located by Kelsh Plotter from photography of 5 October 1960 aided by field inspection Photographs.		
PROJECTION AND GRIDS RULED BY (IV): RAC		DATE 24 Oct. 1960
PROJECTION AND GRIDS CHECKED BY (IV): JDC		DATE 24 Oct. 1960
CONTROL PLOTTED BY (III): D. M. Brant		DATE 18 April 1961
CONTROL CHECKED BY (III): H. P. Eichert		DATE 18 April 1961
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Aerotriangulation - Washington Office		DATE April 1961
STEREOSCOPIC INSTRUMENT COMPILATION (III): D. M. Brant	PLANIMETRY D. M. Brant	DATE August 1961
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): L. A. Senasack		DATE November 1961
DRAFTING SCRIBING BY (III): C. A. Lipscomb		DATE July 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. M. Brant		DATE July 1963
REMARKS: FIELD EDIT - 1962		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2354 & 2355	5 Oct. 1960	0943	1:25,000	0.3 ft. above MLLW
60 W 2362 & 2363	5 Oct. 1960	0949	1:25,000	0.3 ft. above MLLW
From Predicted Tides				

TIDE (III)

Diurnal

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

1

RECOVERED:

1

IDENTIFIED:

1

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

0

RECOVERED:

0

IDENTIFIED:

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

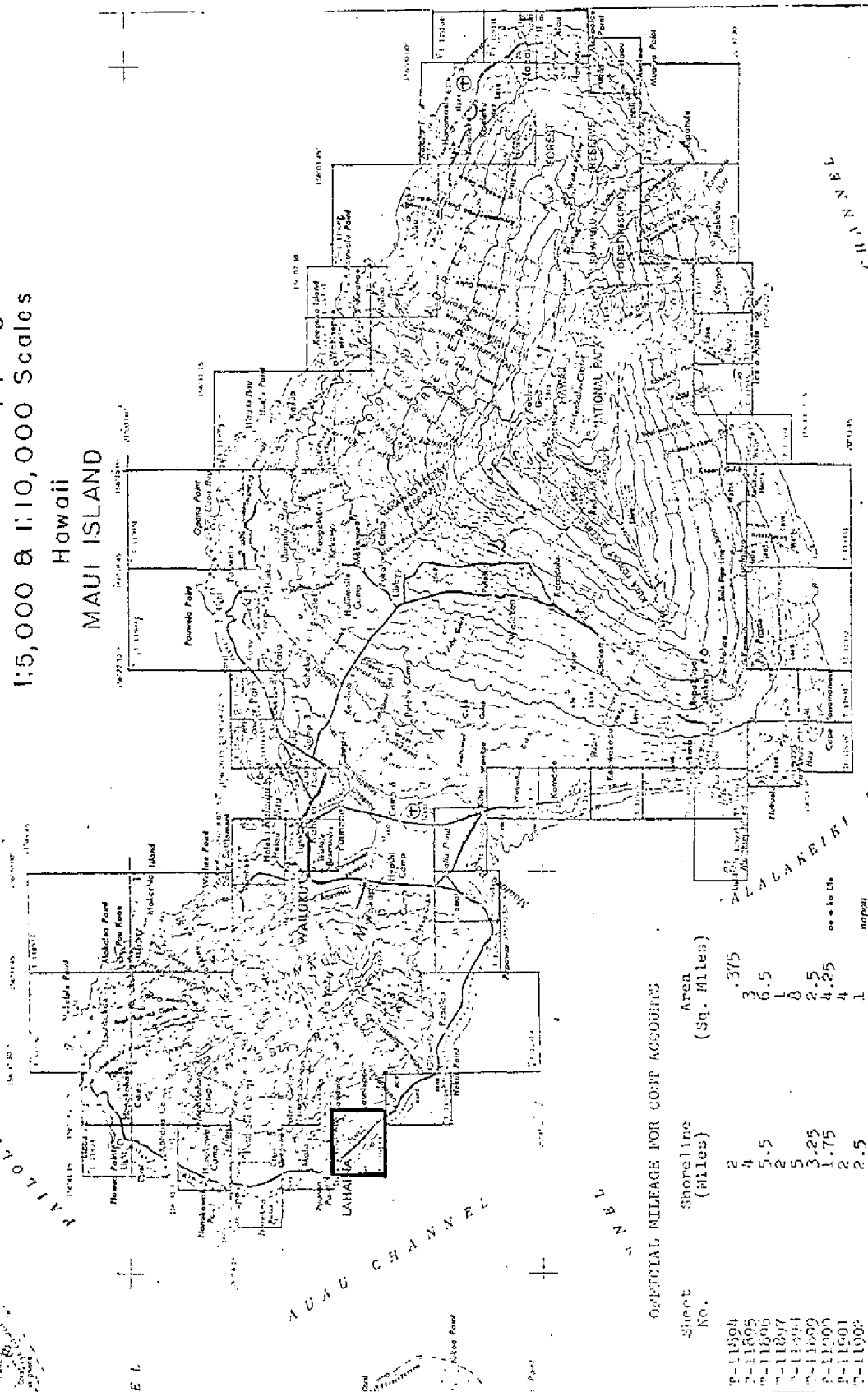
5

REMARKS:

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for Hydro	November 1961	superseded
Final Compilation	July 1963	

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	3.25	2.5
T-11899	1.75	4.25
T-11900	4	4
T-11901	2	1
T-11902	2.5	2
T-11903	5	6
T-11904	4.5	10
T-11905	6.5	7.8
T-11906	7	6
T-11907	4.7	16
T-11908	7.5	.25
T-11909	2.7	2
T-11910	2.7	3
T-11911	2.7	3
T-11912	2.7	4.5
T-11913	2.7	2.2
T-11914	2.5	4
T-11915	2.5	2.6
T-11916	2.7	4
T-11917	3	4
T-11918	4	6
T-11919	4	6

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11922	3	3
T-11923	2.5	2.5
T-11924	2.5	1.5
T-11925	2.5	1
T-11926	1	.04
T-11927	3	1.5
T-11928	4.5	3
T-11929	1.5	.25
T-11930	1.5	1.5
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	6
T-11938	4.5	3
T-11939	2.5	2.5

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11917

Shoreline manuscript T-11917 (1:5,000 scale) is one of 49 similar maps in project PH-6012. It covers a part of the coastline of Maui Island, Hawaii from the town of Lahaina southeastward to latitude 20° 50' 37.5"

This was a stereoscopic instrument mapping project in advance of hydrographic surveys to be made in the same area. The stereo-planigraph was used to bridge existing control and provide a base for setting the models on the Kelsh Plotter for compilation of the shoreline and alongshore area.

Field operations preceding compilation included recovery and identification of horizontal control, field inspection and identification of hydrographic stations and/or signal sites.

Kelsh compilation was at 1:5,000 scale. A cronaflex copy along with 1:5,000 scale ratio photographs were subsequently furnished for preparation of the boat sheet and for photo-hydro support purposes.

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

FIELD INSPECTION REPORT
T-11917

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

COMM. DC-57843

PHOTOGRAMMETRIC PLOT REPORT
T-11917

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-11917

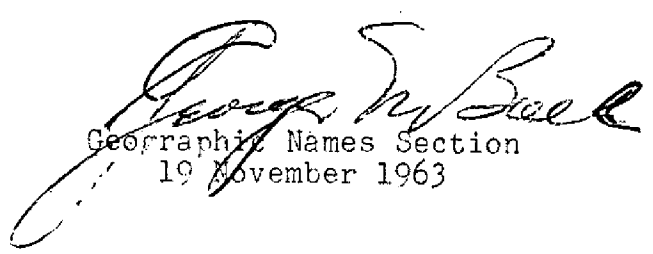
Please refer to the Compilation Report bound with the Descriptive Report for T-11913 which covers the compilation of map manuscripts T-11913 through T-11918.

T-11917

48. Geographic Names List

Lahaina

Makila Point


Geographic Names Section
19 November 1963

49. NOTES TO THE HYDROGRAPHER

The following is a list of hydrographic signal sites which were identified by the field inspection party and located during compilation:

1701	Northwest corner culvert headwall	60 W 2353
1702	Lone palm, north side of road	60 W 2355
1703	Center of stump	60 W 2355
1704	Corner of seawall	60 W 2355
1705	Northwest corner of metal shed	60 W 2355

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 For: D. M. Brant <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> , For: D.M. Brant				SIGNATURE OF SUPERVISOR <i>Joseph Steinberg</i>				

FIELD EDIT REPORT
T-11917

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.

REVIEW REPORT
SHORELINE
January 31, 1966

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with Registered Planetable Survey 3268, 1:20,000 scale, made in 1912 and registered March 30, 1914 and with Registered Survey 4320, 1:10,000 scale dated October - November 1923.

A new harbor at latitude $20^{\circ} 52' 25''$ longitude $156^{\circ} 40' 50''$ does not appear on the old surveys.

^{1a} This map supersedes the above listed prior surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle Lahaina, Hawaii, 1:24,000 scale edition of 1956. The shoreline and alongshore details of the two maps are in good agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a copy of boat sheet H-8577, 1:10,000 scale (SU 10-2-61). As the shoreline of the boat sheet was taken from a cronaflex copy of the manuscript, there were no discrepancies in the shoreline.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 4130, 1:80,000 scale, 4th edition revised August 31, 1964. The chart does not show the harbor at latitude $20^{\circ} 52' 25''$ longitude $156^{\circ} 40' 50''$.

A submerged pile shown on chart 4130 at latitude $20^{\circ} 52' 30''$ longitude $156^{\circ} 40' 57''$ is not visible on any of the photographs of the area.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

J. Bull
J. Bull
Director, Atlantic Marine Center

Approved by:

L. F. Woodward
Chief, Photogrammetry Division

Charles Henn 560
Chief, Cartographic Division
Photogrammetric

Chief, Chart Division

Chief, Operations Division

