

11926

Diag. Cht. 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-11926
LOCALITY	
State	Hawaii
General locality	Maui Island
Locality	Nahuna Point
1960 - 1962	
CHIEF OF PARTY	
H. J. Seaborg, Honolulu District Office	
W. E. Randall, Baltimore District Office	
LIBRARY & ARCHIVES	
DATE	1967

USCOMM-DC 5087

10/1/60-1962

11926

DESCRIPTIVE REPORT - DATA RECORD

T -11926

PROJECT NO. (II):

PH-6012

FIELD OFFICE (III):

Honolulu District Office

CHIEF OF PARTY

H. J. Seaborg

PHOTOGRAMMETRIC OFFICE (III):

Baltimore District Office

OFFICER-IN-CHARGE

W. 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~~ EXERTAS 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):

MAKENA, TIDAL BENCH MARK No. 2, 1931

LAT.:

20° 39' 25.985"

LONG.:

156° 26' 41.873"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

Y = 117,684.22 FT

X = 575,794.75 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.

2.

FORM C&GS-181b (3-66)		U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY					
DESCRIPTIVE REPORT - DATA RECORD							
FIELD INSPECTION BY (III): J. C. Lajoie		DATE: March 1961					
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Mean high water line was located by the Kelsh operator using photography of 11 October 1960 and revised using photography of 24 September 1961.							
PROJECTION AND GRIDS RULED BY (IV): RAC		DATE 21 Nov. 1960					
PROJECTION AND GRIDS CHECKED BY (IV): JDC		DATE 22 Nov. 1960					
CONTROL PLOTTED BY (III): D. M. Brant		DATE 21 Mar. 1961					
CONTROL CHECKED BY (III): E. L. Rolle		DATE 21 Mar. 1961					
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Aerotriangulation - Washington Office		DATE Jan. 1961					
STEREOSCOPIC INSTRUMENT COMPILATION (III): D. M. Brant		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> PLANIMETRY D. M. Brant </td> <td style="width: 50%; padding: 5px;"> DATE 21 Feb. 1962 </td> </tr> <tr> <td style="padding: 5px;"> CONTOURS Inapplicable </td> <td style="padding: 5px;"> DATE </td> </tr> </table>		PLANIMETRY D. M. Brant	DATE 21 Feb. 1962	CONTOURS Inapplicable	DATE
PLANIMETRY D. M. Brant	DATE 21 Feb. 1962						
CONTOURS Inapplicable	DATE 						
MANUSCRIPT DELINEATED BY (III): D. M. Brant		DATE Feb. 1962					
SCRIBING BY (III): C. A. Lipscomb		DATE Aug. 1963					
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. M. Brant		DATE Aug. 1963					
REMARKS: FIELD EP 17 1962							

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2714 & 2715	11 Oct. 1960	0903	1:25,000	0.5 ft. above MHW
61 W 954 & 955 (c)	24 Sept. 1961	1129	1:15,000	0.5 ft. above MLLW
60 W 3005 & 3006	17 Oct. 1960	0800	1:10,000	0.4 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: Makena, Hawaii		1.5	2.1
SUBORDINATE STATION:			

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

DATE:
March 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):

3

RECOVERED:

1

IDENTIFIED

1

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

5

REMARKS:

COMPILATION RECORD

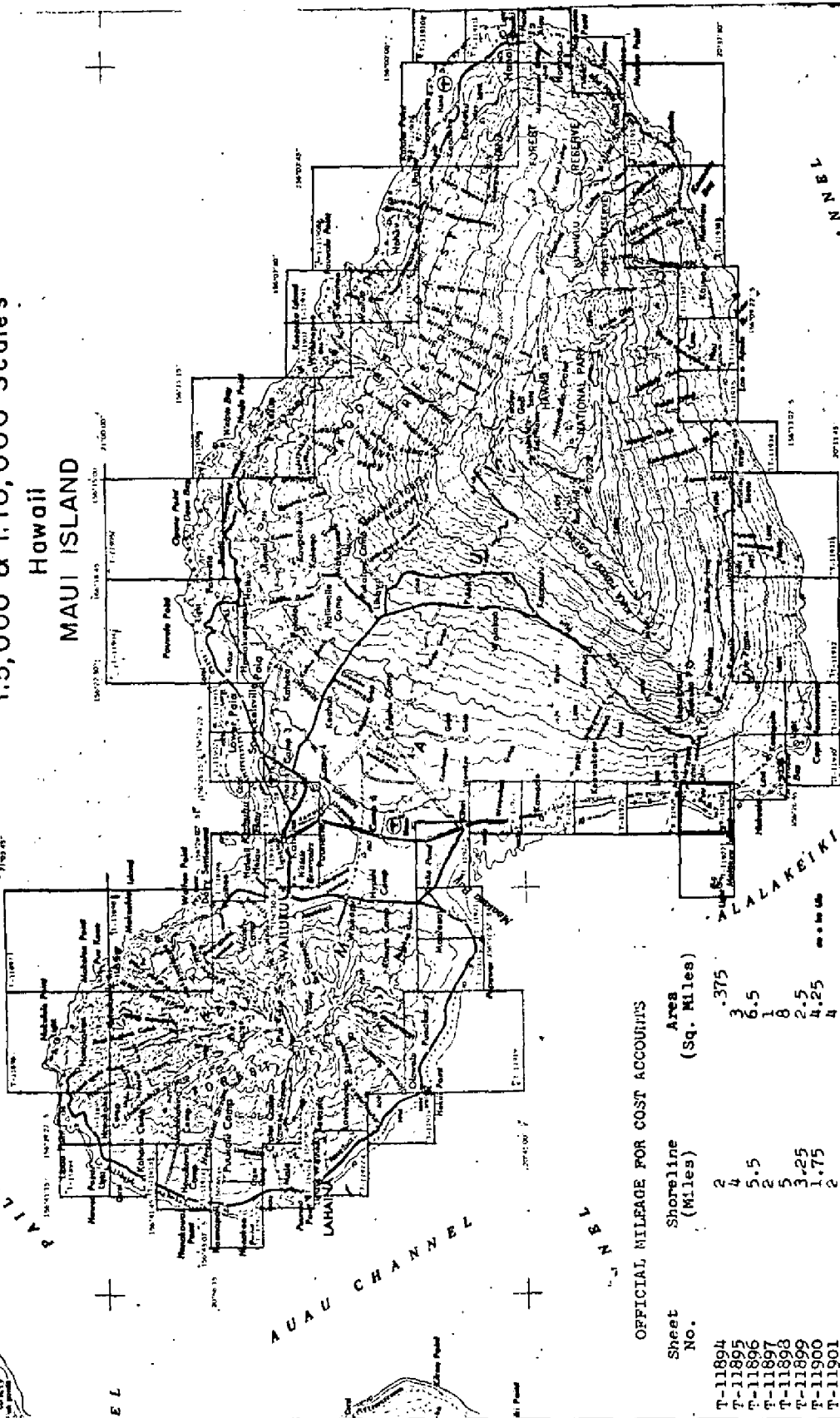
COMPLETION DATE

REMARKS

Alongshore area for hydro	Feb. 1962	superseded
Field edit applied Compilation Completed	Aug. 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	5	8
T-11899	3.25	2.5
T-11900	1.75	4.25
T-11901	2.5	4
T-11902	2	1
T-11903	2	2
T-11904	5	6
T-11905	4.5	4
T-11906	6.5	10
T-11907	7	7.8
T-11908	5	6
T-11909	4.7	16
T-11910	.75	.25
T-11911	2.7	2
T-11912	27	3
T-11913	2.2	4.5
T-11914	2.5	2.2
T-11915	2.5	4
T-11916	2.5	4
T-11917	27	2.6
T-11918	3	4
T-11919	5	6

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11922	3	3
T-11923	2	2.5
T-11924	2.5	1.5
T-11925	2.5	1
T-11926	2.5	.04
T-11927	1	1.5
T-11928	3	3
T-11929	4.5	.25
T-11930	1.5	

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	6
T-11938	4.5	3
T-11939	2.5	3

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11926

Shoreline manuscript T-11926 is one of forty-nine similar maps in this project and covers a part of the coastline of Maui Island, Hawaii. This was a Kelsh project in advance of hydrographic surveys in the area. The field operations preceding compilation included the recovery and identification of horizontal control and field inspection. The Kelsh compilation was at 1:5,000 scale from 1:25,000 scale photography obtained 11 October 1960. A cronaflex positive showing shoreline, alongshore features and shoreline pass points was furnished for the preparation of the hydrographer's boat sheet. 1:5,000 scale ratio prints were subsequently furnished for the location of hydrographic signals and for field edit purposes. The compilation manuscript is a vinylite sheet 1 minute 52.5 seconds in latitude by 1 minute 52.5 seconds in longitude from which the smooth sheet was drafted and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.

FIELD INSPECTION REPORT
T-11926

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

Date_____

Date-----

MAP T-11926

PROJECT NO PH#6012

Checked by _____
SCALE OF MAP 1:5,000

SCALE FACTOR

[illegible]1 FT. ^{W.C.} 3048006 METER

J.C.R.

DATE 10 July, 1962

CHECKED BY: D. BRANT

DATE 13 July, 1962

COMM-DC-57843

PHOTOGRAMMETRIC PLOT REPORT
T-11926

Please refer to the Photogrammetric Plot Report for the Western part of Maui Island which is bound with the Descriptive Report for T-11894.

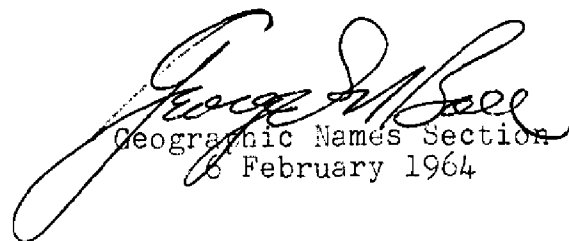
COMPILATION REPORT
T-11926

Please refer to the Compilation Report bound with
T-11919 which covers the compilation of Map Manuscripts
T-11919 through T-11930.

T-11926

48. Geographic Names List

Makena
Nahuna Point


Geographic Names Section
8 February 1964

49. NOTES TO THE HYDROGRAPHER

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

2601	Red Rag on tree	60 W 2714
2602	North cupola of two on house	60 W 2715
2603	Windmill at S.W. corner of pumphouse	60 W 2715
2604	West corner of pillbox	60 W 2715
2605	North gable of house	60 W 2715

FORM 182 (8-61)		PHOTOGRAMMETRIC OFFICE REVIEW		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
50		T-11926			
1. PROJECTION AND GRIDS DMB		2. TITLE DMB		3. MANUSCRIPT NUMBER 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 DMB	9. PLOTTING OF SEXTANT FIXES NONE	10. PHOTOGRAMMETRIC NOT 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 NONE		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 NONE		
	24. CONTOURS IN GENERAL NONE		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 For: D.M. Brant <i>Joseph Steinberg</i>		SIGNATURE OF SUPERVISOR <i>Joseph Steinberg</i>			

FIELD EDIT REPORT
T-11926

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

14.

REVIEW REPORT T-11926
SHORELINE

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Planetable surveys No. 2679, 1:10,000 scale, made in 1904-1905 and with No. 4744, 1:5,000 scale made in 1931. Map manuscript T-11926 supersedes these prior surveys and should be used for all future nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle Makena, Hawaii; 1:24,000 scale, edition of 1954.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8681, PF-10-2-62. The shoreline of the boat sheet and manuscript are in good agreement except for the following:

The foul areas on the manuscript do not appear on the boat sheet.

Rocks at the following positions do not appear on the boat sheet.

Latitude	Longitude
20° 39' 31"	156° 26' 48"
20° 39' 31	156 26 49
20 39 34	156 26 51
20 39 37	156 26 44
20 39 51	156 26 41
20 39 52	156 26 40
20 40 43	156 26 43
20 40 12	156 26 49
20 40 17	156 26 48
20 40 19	156 26 47
20 40 29	156 26 50
20 41 03	156 26 51

15.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS (Cont.)

Two submerged rocks at the following positions do not appear on the boat sheet:

Latitude	Longitude
20 39 37	156 26 48
20 39 37	156 26 50

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 4130, 1:80,000 scale, 4th edition, revised August 31, 1964.

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. Bull
J. Bull, CAPT., USESSA
Director, Atlantic Marine Center

Approved by:

L. F. Woodcock
Chief, Photogrammetry Division

Chief, Chart Division

Charles Henry
Chief, Cartographic Branch, S.S.C.
Photogrammetric

Chief, Operations Division

