

11927

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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-11927
LOCALITY	
State	Hawaii
General locality	Maui Island
Locality	Molokini Island
1962 1961	
CHIEF OF PARTY	
H. J. Seaborg, Honolulu District Office	
Wm. E. Randall, Baltimore District Office	
LIBRARY & ARCHIVES	
DATE	1967

USCONM-DC 5087

11927

5900

2/5/67 - 9/24/61

DESCRIPTIVE REPORT - DATA RECORD

T-11927

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

Wm. 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):

MOLOKINI 2, 1950

LAT.:

20° 38' 01.481"

LONG.:

156° 30' 01.253"

☒ ADJUSTED
☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

y = 109,136.09 FT

x = 556,869.16 FT

Hawaii

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 from color photography obtained 24 September 1961.		
PROJECTION AND GRIDS RULED BY (IV): RAC		DATE 21 Nov. 1960
PROJECTION AND GRIDS CHECKED BY (IV): JDC		DATE 6 Dec. 1960
CONTROL PLOTTED BY (III): D. M. Brant		DATE August 1962
CONTROL CHECKED BY (III): C. A. Lipscomb		DATE August 1962
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): See note in remarks		DATE
STEREOSCOPIC INSTRUMENT COMPILATION (III): D. M. Brant	PLANIMETRY D. M. Brant	DATE August 1962
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): D. M. Brant		DATE October 1962
SCRIBING BY (III): C. A. Lipscomb		DATE October 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. M. Brant		DATE October 1963
REMARKS: Island delineated by Kelsh Plotter using the three control stations on the island as control.		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
61 W (C) 899 & 900	24 Sept. 1961	1047	1:10,000	0.2 ft. above MLLW
61 W (C) 901	24 Sept. 1961	1059	1:10,000	0.2 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): 3*	RECOVERED: 3*	IDENTIFIED: 3		
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): 0				

REMARKS:

* Includes two stations established

COMPILATION RECORD

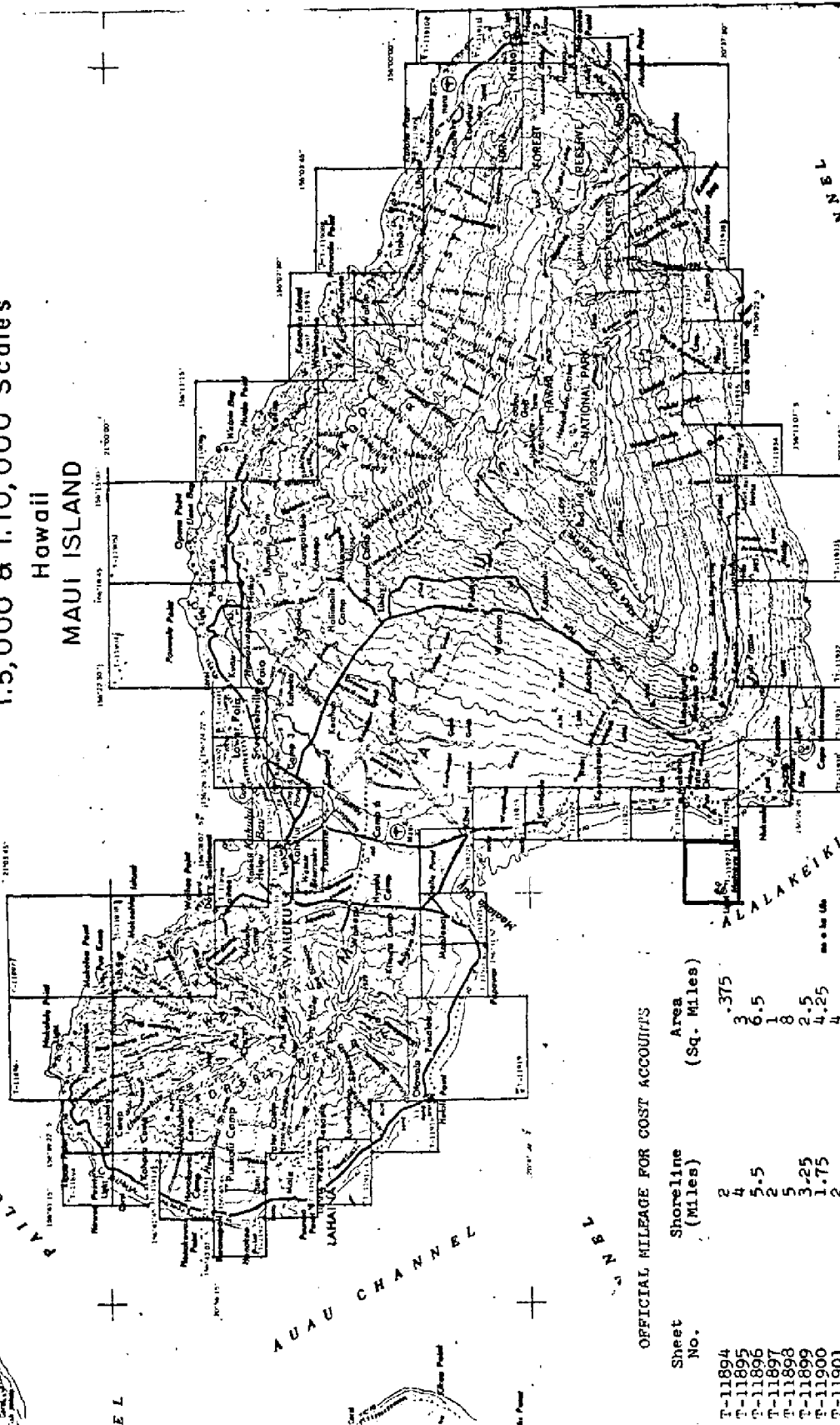
COMPLETION DATE

REMARKS

Shoreline furnished for hydro	31 Aug. 1962	superseded
Compilation completed	August 1963	

PRODUCTION 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	4
T-11902	2.5	1
T-11903	2	2
T-11904	5	6
T-11905	4.5	6
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	3
T-11914	2.2	4.5
T-11915	2.5	2.2
T-11916	2.5	2.2
T-11917	27	2.6
T-11918	3	4

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
T-11930	1.5	.25

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	5	3
T-11939	4.5	
T-11940	2.5	

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11927

Shoreline manuscript T-11927 is one of forty-nine similar maps in this project and covers all of the shoreline of Molokini 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 1:10,000 scale color photography obtained 24 September 1961. A cronaflex positive showing shoreline and alongshore features was furnished for the preparation of the hydrographer's boat sheet. The compilation manuscript is a vinylite sheet 1 minute 52.5 seconds in latitude by 2 minutes 22.5 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-11927

Please refer to the Field Inspection Report bound
with the Descriptive Report for T-11894.

ST AND GEODETIC SURVEY
CONTROL RECORD Plotted by

CONTROL RECORD Plotted by-----Date-----

Checked by Date

MAP T.11927

PROJECT NO
PH-6012

SCALE OF MAP

Date _____
SCALE FACTOR _____[illegible]

1 FT. = 3048006 MEYER

J.C.R.
COMPUTED BY:
1 FT. = .3048006 METER

DATE 27 July, 1962

CHECKED BY: H.R. RUDOLPH

DATE 27 July, 1962.

COMM. DC. 57843.

PHOTOGRAMMETRIC PLOT REPORT

T-11927

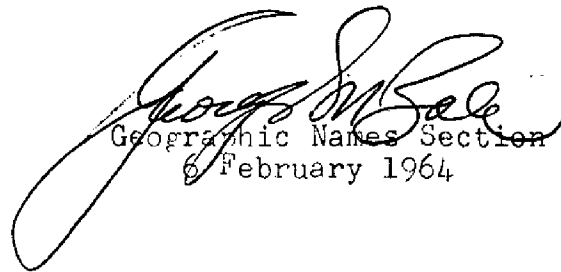
There is no aerotriangulation, or bridging, involved in the delineation of Molokini Island which is the only land area within the limits of this manuscript. The island was delineated by Kelsh Plotter methods using the three identified control stations on the island.

COMPILATION REPORT
T-11927

Please refer to the Compilation Report bound with the
Descriptive Report for T-11919.

48. Geographic Names List

Alalakeiki Channel
Molokini Island


Geographic Names Section
6 February 1964

49. NOTES TO HYDROGRAPHER

There are no notes to the hydrographer accompanying this manuscript.

PHOTOGRAMMETRIC OFFICE REVIEW

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

T-11927

1. SECTION AND NO. 50 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 NONE	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 NONE	14. ROCKS, SHOALS, ETC. DMB	15. BRIDGES NONE	
	16. AIDS TO NAVIGATION DMB	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 NONE		
	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 NONE	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 <i>For: D. M. Brant</i> <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			SIGNATURE OF SUPERVISOR		

USE REVERSE SIDE FOR REMARKS

USCGM-DC 28583-P61

FIELD EDIT REPORT
T-11927

Molokini Island is the only land area within the limits of this manuscript. It was not Field edited. It is a small barren, crescent shape island, void of vegetation or cultural features. Because of the remoteness of the island and the stability of the shoreline a field edit was not deemed necessary.

REVIEW REPORT T-11927
SHORELINE

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Survey No. 2730, 1:10,000 scale made in 1904-1905 and approved March 6, 1906.

Map Manuscript T-11927 supersedes this prior survey 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 Kahoolawe, Hawaii, 1:62,500, edition of 1929, reprinted 1947. The quadrangle shows the outline of the island and the contours, but no other features.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet field number PF-20-2-62. The shoreline of Molokini Island was very faint on the copy and appeared to have been sketched in by pencil. No discrepancies were noted.

65. COMPARISON WITH NAUTICAL CHARTS

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

15.
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
for J. Bull, CAPT., USESSA
Director, Atlantic Marine Center

Approved by:

L. F. Woodcock
Chief, Photogrammetry Division

Charles H. Hauer
Chief, Cartographic Branch
Photogrammetric 0213

Chief, Chart Division

Chief, Operations Division

PH-6012
T-11927 THRU T-11933
*

~~6301~~

~~68~~ - For Signature

~~6318~~ - For Recording

Vault - For Registering

* "Comparison Prints",
to be registered with
the maps, are included
for surveys T-11928,
T-11929 and T-11930.

Form 1008