

11928

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-11928

LOCALITY

State Hawaii

General locality Maui Island

Locality Maluaka Point

1960 - 1962

CHIEF OF PARTY

H. J. Seaborg - Honolulu District Office

Wm. E. Randall - Baltimore District Office

LIBRARY & ARCHIVES

DATE 1967

USCOMM-DC 5087

5/11/60 - 1962

11928

DESCRIPTIVE REPORT - DATA RECORD
T -11928

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):

PUU OLAI (HGS) (HTS 1929), 1879

LAT.:

20° 38' 22.438"

LONG.:

156° 27' 05.471"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

Y = 111,270.00 FT

X = 573,562.23 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: Mar. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Mean high water located by Kelsh Plotter from Panchromatic photography of 11 October 1960 and 24 September 1961 supplemented by color photography of 17 October 1960.		
PROJECTION AND GRIDS RULED BY (IV): RAC		DATE 22 Nov. 1960
PROJECTION AND GRIDS CHECKED BY (IV): JDC		DATE 6 Dec. 1960
CONTROL PLOTTED BY (III): D. M. Brant		DATE 22 Mar. 1961
CONTROL CHECKED BY (III): E. L. Rolle		DATE 22 Mar. 1961
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Aerotriangulation - Washington Office		DATE Feb 1961
STEREOSCOPIC INSTRUMENT COMPILATION (III): J. D. Mc Evoy	PLANIMETRY J. D. Mc Evoy	DATE Mar 1962
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): L. A. Senasack		DATE Mar 1962
SCRIBING BY (III): C. A. Lapscomb		DATE Aug. 1962
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. M. Brant		DATE Aug. 1962
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 2716	11 Oct. 1960	0904	1:25,000	0.5 ft. above MHW
61 W 956	24 Sept. 1961	1129	1:15,000	0.5 ft. above MLLW
60 W (C) 3042 thru 3045	17 Oct. 1960	0819	1:10,000	0.4 ft. above MLLW
60 W (C) 3001 thru 3004	17 Oct. 1960	0759	1:10,000	0.4 ft. above MLLW
60 W (C) 3364	27 Oct. 1960	0848	1:10,000	0.5 ft. above MHW

From predicted Tide Tables

TIDE (III)

Diurnal

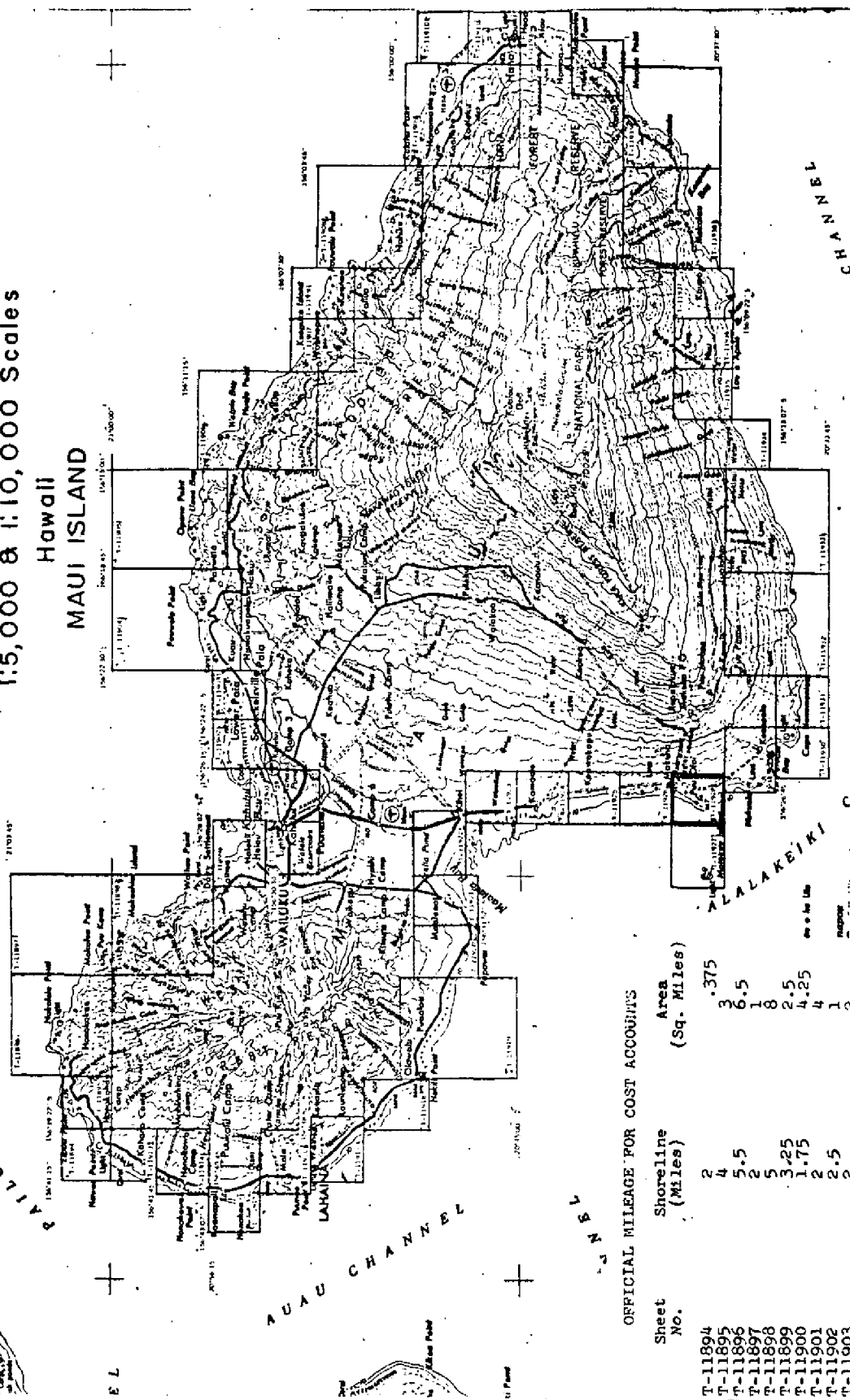
		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Honolulu, Hawaii		1.2	1.9
SUBORDINATE STATION:	Makena, Hawaii		1.5	2.1
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet-Atlantic Marine Center		DATE: March 1966		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	2	RECOVERED: 2	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):		3		

REMARKS:

COMPILATION RECORD	COMPLETION DATE	REMARKS
Shoreline furnished for hydro	Feb. 9, 1962	superseded
Shoreline revised	March 9, 1962	
Compilation completed	Aug. 1962	

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	3	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	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	2.2

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	1	1
T-11927	1	.06
T-11928	1	.06

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

CHANNEL

KAHOLAWE CHANNEL

AUAU CHANNEL

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11928

Shoreline manuscript T-11928 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 and 1:15,000 scale photography obtained 24 September 1961. 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-11928

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

MAP T-11928

PROJECT NO. PH-6012

SCALE OF MAP:

Checked by-
1:5,000

Date_ Date_

Date_____

SCALE FACTOR

[illegible]

PHOTOGRAMMETRIC PLOT REPORT
T-11928

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-11928

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

48. Geographic Names List

Ahihi Bay
Maluaka Point
Fuu Olai

Geographic Names Section
6 February 1964

49. NOTES TO THE HYDROGRAPHER

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

2801	Church steeple	60 W 2715
2802	Corner of porch	60 W 2716
2803	Offshore corner of pillbox	60 W 2716

PHOTOGRAMMETRIC OFFICE REVIEW
T. 11928

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 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: J.D. McEvoy <i>Joseph Steinberg</i>				SIGNATURE OF SUPERVISOR <i>Joseph Steinberg</i>				

USE REVERSE SIDE FOR REMARKS

USCOMM-DC 25353-P61

FIELD EDIT REPORT
T-11928

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

REVIEW REPORT T-11928
SHORELINE

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with a copy of Registered Survey No. 2679, 1:10,000 scale made in 1904-1905 and approved May 10, 1905.

Shoreline survey T-11928 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 Makena, Hawaii, 1:24,000 scale edition of 1954.

The shoreline of the two maps are in good agreement considering the difference in scales.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8681, PF-10-2-62. The rocks, coral reefs and foul area shown on the map manuscript do not appear on the boat sheet. See comparison print.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 4130, 1:80,000 scale, 4th edition revised August 31, 1964. Because of the differences in scales only a visual comparison was made.

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 Charles L. Hume
Chief, Photogrammetry Division Chief, Cartographic Branch U.S.
Photogrammetric

Chief, Chart Division

Chief, Operations Division

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11928

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

[illegible]