

11928

Diag. Cht. No. 4116.

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY DESCRIPTIVE REPORT	
<i>Type of Survey</i> SHORELINE (PHOTOGRAMMETRIC)	
<i>Field No.</i> Ph-6012	<i>Office No.</i> T-11928
LOCALITY	
<i>State</i> Hawaii	
<i>General locality</i> Maui Island	
<i>Locality</i> Maluaka Point	
<u>1960 - 1962</u>	
CHIEF OF PARTY H. J. Seaborg - Honolulu District Office Wm. E. Randall - Baltimore District Office	
LIBRARY & ARCHIVES	
<i>DATE</i> 1967	

USCOMM-DC 5087

11928

5/8/67

10/11/66 - 1962

DESCRIPTIVE REPORT - DATA RECORD

T -11928

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

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

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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. Lipscomb		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:	IDENTIFIED:	
		2	1	
NUMBER OF BM(S) SEARCHED FOR (II):	0	RECOVERED:	IDENTIFIED	
		0	0	
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):		0		
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):		3		

REMARKS:

COMPILATION RECORD

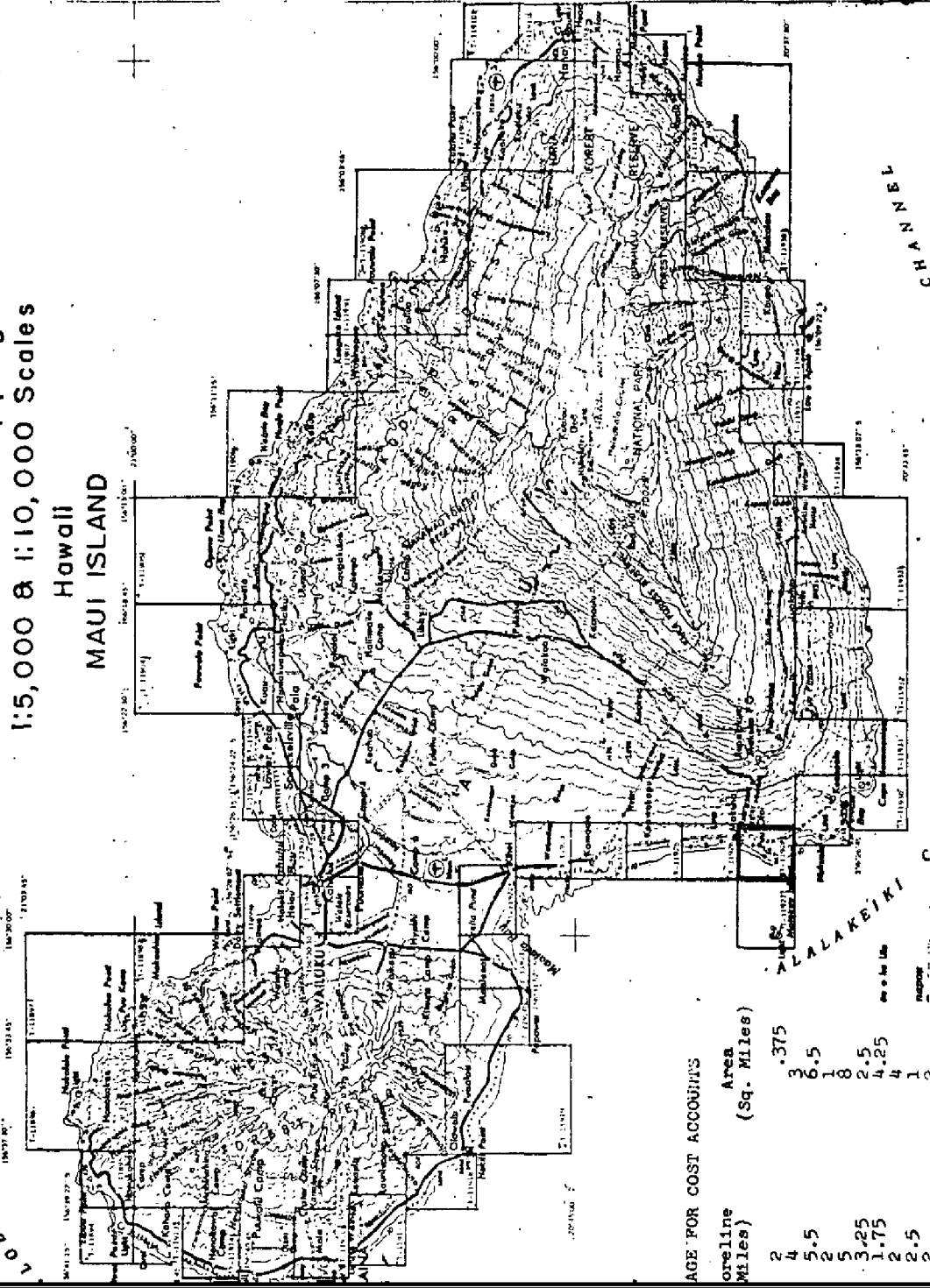
COMPLETION DATE

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



AGE FOR COST ACCOUNTS		OFFICIAL MILEAGE FOR COST ACCOUNTS	
Shoreline (Miles)	Area (Sq. Miles)	Shoreline (Miles)	Area (Sq. Miles)
2	.375	3	3
4	3	2	3
5.5	6.5	2.5	2.5
3	1	2.5	1.5
3.25	2.5	2.5	1
1.75	4.25	1	1
2	4	1	1
2.5	1	1	1
2	2	1	1
3	1	1	1
4.5	6	1	1
6.5	10	1	1
7	7.8	1	1
5	6	1	1
4.7	16	1	1
.75	.25	1	1
2.7	2	1	1
2.2	3	1	1
2.5	4.5	1	1
	2.2	1	1

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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.

Date

Checked by _____ Date

MAP T 11928

PROJECT NO. PH-6012

SCALE OF MAP 1:5,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR μ -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
PUU OLAI (HGS) (HTS 1929), 1879	P.C.	Old	111,270.00							
	14	Hawaiian	573,562.23							
MAUI RADIO RANGE, TOWER, 1950	P.C.	"	109,706.73							
	20		574,777.67							

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

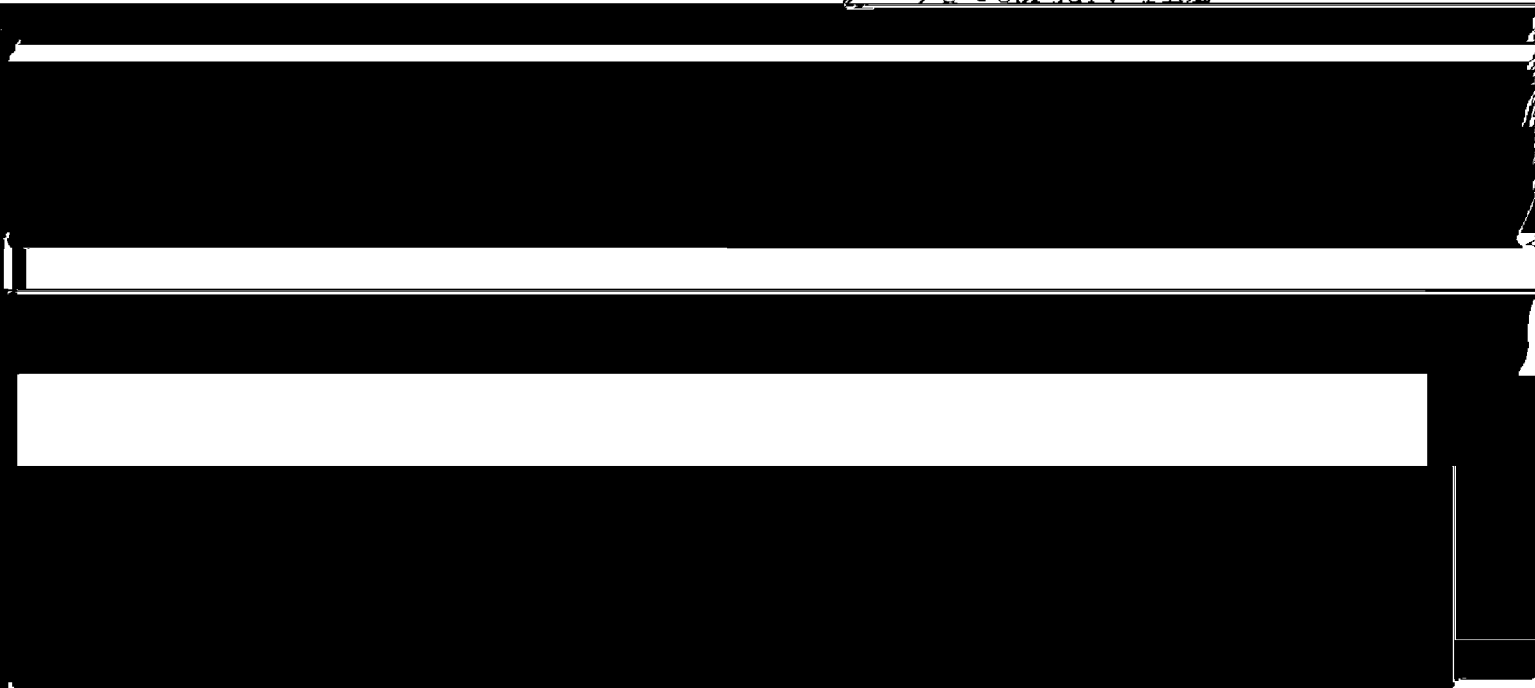
Please refer to the Compilation Report bound with the Descriptive Report for T-11919 which covers the compilation of Map Manuscripts T-11919 through T-11930.

T-11928

48. Geographic Names List

Ahihi Bay
Maluaka Point
Fuu Olai

George S. ...
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		
MISCELLANEOUS	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>	

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
Chief, Photogrammetry Division

Charles Leman
Chief, Cartographic Branch
Photogrammetric
A.M.S.

Chief, Chart Division

Chief, Operations Division

