

# 11933

Diag. Cht. No. 4116.

<p>Form 504</p> <p>U. S. DEPARTMENT OF COMMERCE</p> <p>COAST AND GEODETIC SURVEY</p> <p><b>DESCRIPTIVE REPORT</b></p>
<p>Type of Survey <u>SHORELINE (PHOTOGRAMMETRIC)</u></p> <p>Field No. <u>Ph-6012</u> Office No. <u>T-11933</u></p>
<p><b>LOCALITY</b></p> <p>State <u>Hawaii</u></p> <p>General locality <u>Maui Island</u></p> <p>Locality <u>Wekeke Point - Nakaohu Point</u></p>
<p><u>1960 - 1963</u></p> <p><b>CHIEF OF PARTY</b></p> <p><u>H. J. Seaborg, Honolulu District Office</u></p> <p><u>W. E. Randall, Baltimore District Office</u></p>
<p><b>LIBRARY &amp; ARCHIVES</b></p> <p>DATE <u>1967</u></p>

USCGM-DC 5087

11933

10550

10,200 - 753

## DESCRIPTIVE REPORT - DATA RECORD

T -11933

PROJECT NO. (II):

PH-6012  
(21034)

FIELD OFFICE (II):

Honolulu, Hawaii

CHIEF OF PARTY

H. J. Seaborg

PHOTOGRAMMETRIC OFFICE (III):

Baltimore, Maryland

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):

1:10,000

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): M.L.H.W.~~MEAN SEA LEVEL~~ EXCEPT AS FOLLOWS:

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):

SHORE D (HGS), 1881, 1950

LAT.:

20° 35' 12.118"

LONG.:

156° 18' 04.999"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 92,160.31'

X = 624,938.01'

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 (II):  J. C. Lajoie		DATE:  Dec. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Mean High Water Line located by Kelsh operator from 1960 photography with field annotations supplemented by 1962 panchromatic and color photography		
PROJECTION AND GRIDS RULED BY (IV):  R.A.C.		DATE  12/1/60
PROJECTION AND GRIDS CHECKED BY (IV):  J.D.C.		DATE  12/6/60
CONTROL PLOTTED BY (III):  L. A. Senasack		DATE  2/26/62
CONTROL CHECKED BY (III):  L. O. Neterer		DATE  2/26/62
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  R. E. Fuechsel		DATE  2/62
STEREOSCOPIC INSTRUMENT COMPILATION (III):  D. M. Brant	PLANIMETRY  D. M. Brant	DATE  4/9/62
	CONTOURS  Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):  L. A. Senasack		DATE  4/62
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  D. M. Brant		DATE  4/62
REMARKS:  F.E. 1963		

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2459 thru 2461	8 Oct. 1960	0909	1:25,000	1.5 Ft. above MLLW
60 W 2290 & 2291	2 Oct. 1960	1139	1:25,000	1.5 Ft. " "
61 W(C) 1119 thru 1127	25 Sept. 1961	1000	1:10,000	0.2 Ft. " "
61 W(C) 1100 thru 1103	25 Sept. 1961	0951	1:10,000	0.3 Ft. " "

The stages of tide were computed from the Predicted Tides.

## TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	<del>SPRING</del> RANGE
REFERENCE STATION: Honolulu, Hawaii		1.2	1.9
SUBORDINATE STATION: Makena, Hawaii		1.5	2.1
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

Atlantic Marine Center  
Leo F. Beugnet, For Norfolk Regional Office

DATE:

Apr. 1966

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 2	RECOVERED: 2	IDENTIFIED: 0
NUMBER OF BM(S) SEARCHED FOR (II): None	RECOVERED: None	IDENTIFIED: None
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):	None	
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):	10	

REMARKS:

## COMPILATION RECORD

## COMPILATION DATE

## REMARKS

Shoreline furnished for hydro	March 1962	Superseded
Compilation completed	Dec. 1963	

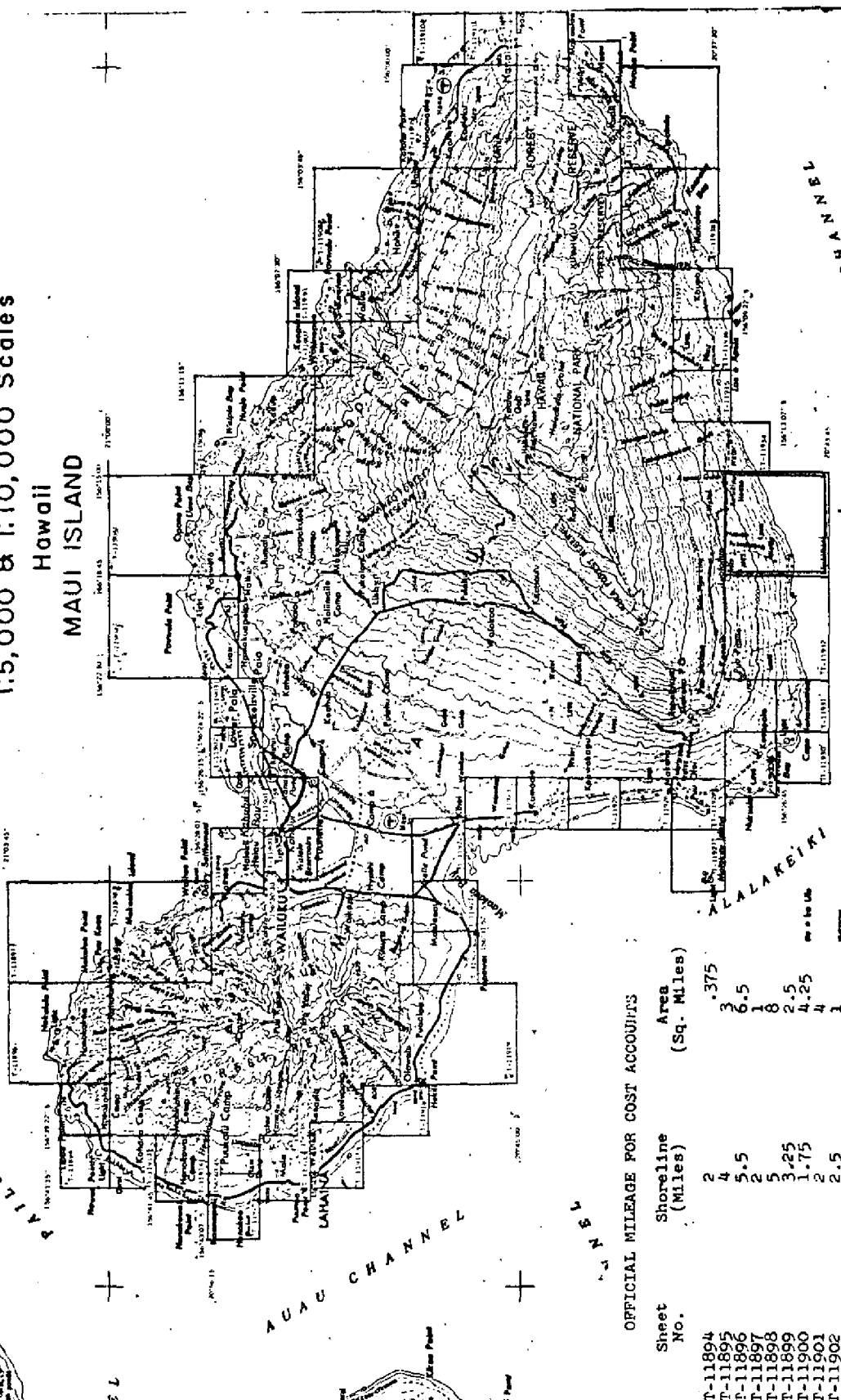


# PROJECT PH-6012

## 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	4
T-11906	6.5	10
T-11907	7	7.8
T-11908	5	7.6
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	2.5	4.5
T-11915	2.5	2.2
T-11916	2.5	4
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	4.5	3

#### 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	4.5	3

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11933

Shoreline manuscript T-11933 is one of forty-nine similar maps in this project and covers a part of the south coast 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 1:10,000 scale from 1:25,000 scale photography obtained October 2nd and 8th 1960. A cronaflex positive showing shoreline, alongshore features and shoreline pass-points was furnished for the preparation of the hydrographer's boat sheet. 1:10,000 scale ratio prints were subsequently furnished for the location of hydrographic signals and for field edit purposes. The compilation manuscript is a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 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-11933

Please refer to the Field Inspection Report for Maui  
Island bound with T-11931.



SCALE FACTOR 1.000...

1 FT. - 3048006 MEAS COMPUTED BY: Brant	DATE July, 1962	CHECKED BY: I. O. S.	DATE 20 March, 1962	COMM. DC- 57843
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PHOTOGRAMMETRIC PLOT REPORT  
T-11933

Please refer to the Photogrammetric Plot Report for Maui Island (East half), dated February 1962, which is bound with the Descriptive Report for T-11931.

## COMPILATION REPORT T-11933

ITEMS 31 THRU 36

Refer to Compilation Report for T-11931

37. LANDMARKS AND AIDS

There are no landmarks, aids to navigation or aeronautical aids within the limits of this map.

38. CONTROL FOR FUTURE SURVEYS

No Control for future surveys was established.

39. JUNCTIONS

Satisfactory junctions were made with T-11932 on the west and T-12934 on the east. There is no contemporary survey on the north; Alenuihaha Channel is on the south.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to Photogrammetric Plot Report bound with T-11894.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. quadrangle, Lualailua Hills, Hawaii, 1:24,000 scale, edition of 1957.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 4116, 1:250,000 scale, 12th edition, August 17, 1964.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

*Joseph Steinberg*  
For: Donald M. Brant  
Carto. (Photo.)

Approved:

*J. Bull*

J. Bull  
Capt. C&GS

Norfolk Regional Officer

## GEOGRAPHIC NAMES

Ph 6012

T-11933

T-11934

TTTTT

Kahaleaimakani Gulch

Kahawaihapapa Point

Kahikinui House

Kepuni Gulch

\* Kiakeana Point

Manawainui Gulch

\* Nakaohu Point

Palaha Gulch

Pukai Gulch

\* Wekea Point

These Names Not Separated  
by T Number.

*Frank W. Pickett*  
All Names Approved  
by Office of Geography

*Approved 1-20-66*  
*A. J. Wright*

*\* Appear on this manuscript*

49. NOTES FOR THE HYDROGRAPHER

The positions of the following photo-hydro signals, identified by the field inspection party, were established during compilation.

3301	Flag at N.W. corner of old foundation	60 W 2289
3302	Flag at S.W. corner of old foundation	60 W 2289
3303	Flag at S.E. corner of old foundation	60 W 2290
3304	Flag at S.W. corner of old heiau	60 W 2290
3305	Flag at N.E. corner of old wall	60 W 2290
3306	Flag at S.E. corner of old wall	60 W 2290
3307	Flag at west end of wall	60 W 2290
3308	Flag at S.E. corner of grave	60 W 2290
3309	Flag at S.W. corner U shaped wall	60 W 2292
3310	Flag at S.W. corner of old corral	60 W 2292



FORM 182 (3-61)		PHOTOGRAMMETRIC OFFICE REVIEW T-11933		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
1. PROJECTION AND GRIDS DMB		2. TITLE DMB		3. MANUSCRIPT NUMBERS DMB	
4. MANUSCRIPT SIZE DMB		5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY DMB		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) NONE	
CONTROL STATIONS		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 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 SUPERVISOR, REVIEW SECTION OR UNIT Joseph Steinberg	
		SIGNATURE OF REVIEWER For: D.M. Brant Joseph Steinberg		SIGNATURE OF SUPERVISOR Joseph Steinberg	
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 Joseph Steinberg	

FIELD EDIT REPORT  
T-11933

No formal field edit report was received. Please refer to the letter, dated July 8, 1963, concerning field edit of this manuscript a copy of which is the following page of this report.

# Memorandum

244-15

TO : The Director  
Coast and Geodetic Survey  
U.S. Department of Commerce  
Washington 25, D.C.

DATE: 8 July 1963

FROM : Commanding Officer  
USC&GSS Pathfinder  
705 Federal Office Building  
Seattle, Washington

SUBJECT: Field Edit Report - OPR-419

During the first half of the 1963 field season, Pathfinder personnel field edited the manuscripts listed below for accuracy and completeness. All recommended changes have been noted on the blackline impressions in red and green ink. In general, the manuscripts were found to be very reliable with only minor discrepancies being noted.

Four manuscripts with noted changes are being forwarded to the Washington Office on July 9. These manuscripts with no recommended changes have been noted below. The remaining manuscripts will be forwarded as soon as we have had an opportunity to compare them with the boat sheets now in Washington for photographing.

T-11905	Edited - No changes
T-11906	Edited - Will be forwarded later
T-11907	Edited - Will be forwarded later
T-11908	Edited - Will be forwarded later
T-11909	Edited - Will be forwarded later
T-11910	Edited - Will be forwarded later
T-11911	Edited - Will be forwarded later
T-11950	Forwarded 9 July
T-11951	Edited - No recommended changes
T-11952	Edited - No recommended changes
T-11953	Edited - No recommended changes
T-11955	Forwarded 9 July
T-11956	Forwarded 9 July
T-11957	Forwarded 9 July
T-11991	Edited - Will be forwarded later
T-11992	Edited - Will be forwarded later

It is requested that these manuscripts be returned to the Ship as soon as is practical as they will be needed for smooth plotting.

*H. J. Seaberg*  
H. J. Seaberg  
Captain, USC&GS

REVIEW REPORT T-11933  
SHORELINE  
March 18, 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with a copy of Registered Planetable Survey No. 3276, made in 1912 at 1:20,000 scale and approved March 30, 1914. There are no major changes in the shoreline between the two surveys, however, the shoreline located photogrammetrically is more depictive of the coastline.

Map manuscript T-11933 supersedes the planetable 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 Lualailua Hills Hawaii, 1:24,000 scale edition of 1957. The shoreline of the two maps are in good general agreement although the U.S.G.S. quadrangle does not show the alongshore features in detail.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None. See notes to Verifier.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 4116 is the largest scale (1:250,000) chart that covers the area. The shoreline is necessarily generalized because of the scale. A visual comparison with this chart revealed no noteworthy discrepancies.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

There are no offshore features for investigation by future surveys.

Reviewed by:

Leo F. Beugnet  
Leo F. Beugnet

Approved by:

J. Bull  
J. Bull  
Director, Atlantic Marine Center

Approved by:

Charles J. Hemm  
Chief, Cartographic Branch  
Photogrammetric

Chief, Chart Division

L. J. Woodcock  
Chief, Photogrammetry Division

Chief, Operations Division

## NOTES TO VERIFIER

No contemporary hydrographic survey, in the area of this manuscript, was available at the time of Final Review.



## RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11933

## 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]