

# 11929

Diag. Cht. No. 4116.

<b>Form 504</b>	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
<b>DESCRIPTIVE REPORT</b>	
Type of Survey	SHORELINE (PHOTOGRAMMETRIC)
Field No. Ph-6012	Office No. T-11929
<b>LOCALITY</b>	
State	Hawaii
General locality	Maui Island
Locality	Cape Hanamanioa
1960 - 1962	
<b>CHIEF OF PARTY</b>	
H. J. Seaborg-Honolulu District Office	
W. E. Randall-Baltimore District Office	
<b>LIBRARY &amp; ARCHIVES</b>	
DATE	1967

USCOMM-DC 5087

11929

10 100 - 1962



## DESCRIPTIVE REPORT - DATA RECORD

T -11929

PROJECT NO. (II):

PH-6012

FIELD OFFICE (III):

Honolulu, Hawaii

CHIEF OF PARTY

H.J. Seaborg

PHOTOGRAMMETRIC OFFICE (III):

Baltimore, Maryland

OFFICER-IN-CHARGE

William E. Randall

INSTRUCTIONS DATED (II) (III):

14 November 1960  
28 November 1960  
13 June 1961  
27 December 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 O KANALOA (HTS 1929) 1931

LAT.:

20° 36' 21.117"

LONG.:

156° 25' 15.908" °

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

y = 99,044.80 FT

x = 583,986.69 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 (II):		DATE:
J. C. Lajoie		FEB. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Mean high water line located by Kelsh Plotter from field inspection photographs.		
PROJECTION AND GRIDS RULED BY (IV):		DATE
RAC		22 Nov. 1960
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
JDC		6 Dec. 1960
CONTROL PLOTTED BY (III):		DATE
D.M.Brant		20 March 1961
CONTROL CHECKED BY (III):		DATE
E. L. Rolle		20 March 1961
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
Aerotriangulation - Washington Office		January 1961
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	J. D. Mc Evoy	March 1962
J.D.Evoy	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
J. D. Mc Evoy		March 1962
SCRIBING BY (III):		DATE
C. A. Lipscomb		Nov. 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
D. M. Brant		Nov. 1963
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 2717 & 2718	11 Oct. 1960	0905	1:25,000	0.5 ft. above MHW
62 W 2086 thru 2019	19 Jan. 1962	1255	1:15,000	0.5 ft. above MLLW
60 W(C) 3429 thru 3432	29 Oct. 1960	0838	1:10,000	1.1 ft. above MLLW

From Predicted Tides

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):

0

RECOVERED:

0

IDENTIFIED

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

5

REMARKS:

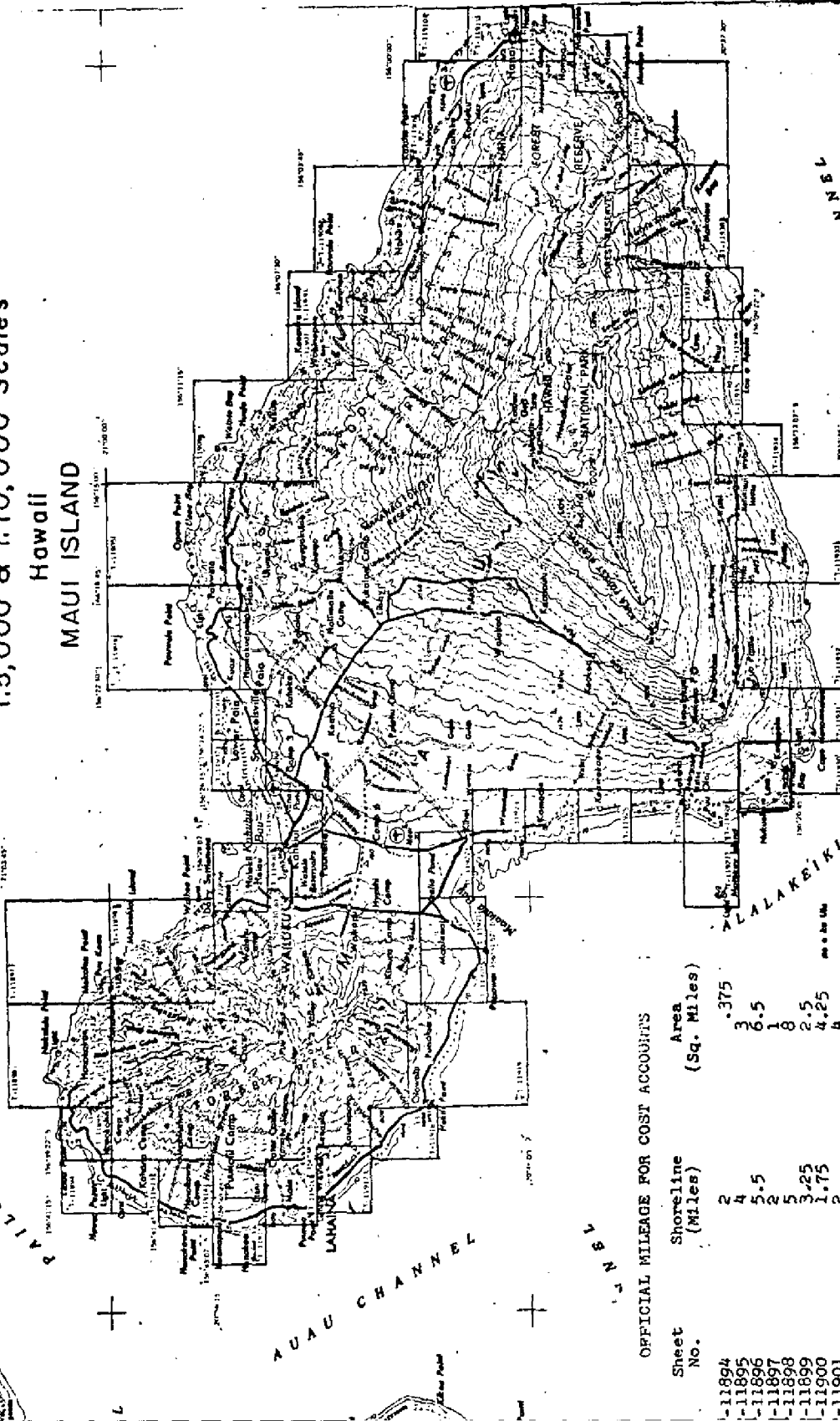


COMPILATION RECORD	COMPLETION DATE	REMARKS
Shoreline furnished for hydro	March 1962	superseded
Field Edit applied Compilation Completed	Nov. 1963	



# PROJECT RT-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)
11894	2	3.75
11895	4	3
11896	5.5	6.5
11897	2	1
11898	5	8
11899	3.25	2.5
11900	1.75	4.25
11901	2	4
11902	2.5	1
11903	2	2
11904	5	6
11905	4.5	4
11906	6.5	10
11907	7	7
11908	5	6
11909	4.7	16
11910	2.75	2.25
11911	2.7	2
11912	27	3
11913	2.3	4.5
11914	2.5	2.2
11915	2.5	4
11916	2.5	2.6
11917	27	

### OFFICIAL MILEAGE FOR COST ACCOUNTS

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

### OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
11931	2.5	1.5
11932	4.5	12
11933	5	18
11934	2.7	3
11935	2.5	4
11936	5	4
11937	5	6
11938	5	4
11939	5	4



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11929

Shoreline manuscript T-11929 is one of forty-nine similar maps in this project and covers a part of the coastline of Maui Island. This was a Kelsh project in advance of hydrographic surveys in the area. The field operations preceding compilation included recovery and identification of horizontal control and field inspection. The Kelsh compilation was at 1:5,000 from 1:25,000 scale photography obtained 11 October 1960 and supplemented by photography of 19 January 1962 at 1:15,000 scale. A cronaflex positive showing shoreline, alongshore detail and shoreline pass points was furnished for preparation of the hydrographer's boat sheet and the location of hydrographic signals. 1:5,000 scale ratio prints were furnished for hydro support and field edit purposes. 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-11929

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



54) MAP T. 11929 PROJECT NO. PH-6012 SCALE OF MAP 1:5,000 SCALE FACTOR \_\_\_\_\_  
DESCRIPTIVE REPORT CONTROL RECORD Plotted by \_\_\_\_\_ Date \_\_\_\_\_  
Checked by \_\_\_\_\_ Date \_\_\_\_\_

[illegible]

1 FT. = .3048006 METER

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

DATE 12 July, 1962

CHECKED BY: H. R. RUDOLPH

DATE 17 July, 1962

COMM-DC-57843



PHOTOGRAMMETRIC PLOT REPORT  
T-11929

Please refer to the Photogrammetric Plot Report for the western half of Maui Island, dated March 1961, which is bound with the Descriptive Report for T-11894.



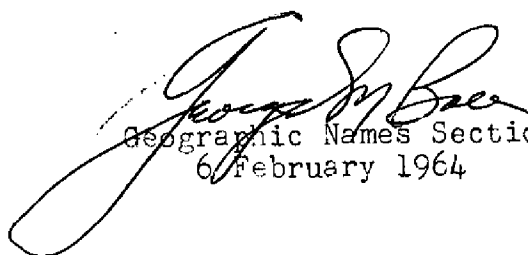
COMPILATION REPORT  
T-11929

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



48. Geographic Names List

Ahihi Bay  
Alalakeiki Channel  
Cape Kinau  
Halua Pond  
Kalaeloa  
Kahahena  
Kahahena Point  
Kauhioaiakini Pond  
Keoneoio  
La Perouse Bay  
Nukuele Point  
Pohaku Paea  
Puu O Kanaloa

  
Geographic Names Section  
6 February 1964



49. NOTES TO THE HYDROGRAPHER

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

2901	Rock point inshore from rock	60 W 2452
2902	S.W. corner of house wall	600W 2452
2903	High point of offshore rock	60 W 2452
2904	End of wall	60 W 2452
2905	N.W. corner of old wall	60 W 2452



PHOTOGRAMMETRIC OFFICE REVIEW  
T- 11929U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

50

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		
ALONGSHORE AREAS (Nautical Chart Data)	11. DETAIL POINTS DMB		
	12. SHORELINE DMB	13. LOW-WATER LINE DMB	14. ROCKS, SHOALS, ETC. DMB
	15. BRIDGES NONE		18. OTHER ALONGSHORE PHYSICAL FEATURES DMB
	16. AIDS TO NAVIGATION NONE	17. LANDMARKS NONE	
PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES DMB		
	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
CULTURAL FEATURES	26. OTHER PHYSICAL FEATURES DMB		
	27. ROADS DMB	28. BUILDINGS DMB	29. RAILROADS NONE
BOUNDARIES	30. OTHER CULTURAL FEATURES DMB		
	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>
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-11929

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



14.

REVIEW REPORT T-11929  
SHORELINE

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Survey No. 2679. This was a planetable survey made in 1904-1905 at 1:10,000 scale. This survey portrays the shoreline in the area of Cape Kinau to the much smoother, or less jagged, than the shoreline located by photogrammetric methods. No attempt was made to superimpose the shoreline of this survey on the comparison print as the difference is apparent by visual inspection.

Map manuscript T-11929 superseded 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, 1954 edition. Because of the scale of the quadrangle the shoreline is more generalized than on map manuscript T-11929. A rock, well offshore of the MHWL on the quadrangle, at latitude  $20^{\circ} 36.2'$  longitude  $156^{\circ} 26.6'$  is not visible on color photography of the area.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheets H-8686A and H-8686B, both at 1:5,000 scale. The shoreline for the boat sheets was taken from a cronaflex copy of the map manuscript, however, the foul lines on the boat sheets and manuscript are not in agreement.

The offshore rock, mentioned in item 63, does not appear on the boat sheet.



# 65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 4130, 1:80,000 scale, 4th edition, revised August 31, 1964. The offshore rock, mentioned in item 63, also appears on the chart.

# 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 L. Lenn*  
Chief, Cartographic Branch 938  
Photogrammetric

Chief, Chart Division

Chief, Operations Division



NAUTICAL CHART DIVISION

## RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. **T-11929**

## 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.

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]