

11920

Diag. Cht. No. 4116.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <u>SHORELINE (PHOTOGRAMMETRIC)</u>	
Field No. <u>Ph-6012</u>	Office No. <u>T-11920</u>
LOCALITY	
State <u>Hawaii</u>	
General locality <u>Maui Island</u>	
Locality <u>Papawai Point</u>	
<u>1960-1962</u>	
CHIEF OF PARTY	
<u>H. J. Seaborg, Honolulu District Office</u>	
<u>W. E. Randall, Baltimore District Office</u>	
LIBRARY & ARCHIVES	
DATE <u>1967</u>	

USCOMM-DC 5087

10-5 22 - 1968

11920

DESCRIPTIVE REPORT - DATA RECORD

T -11920

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

William 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):

PAPAWAI, 1950

LAT.:

20° 46' 55.052"

LONG.:

156° 32' 26.419"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

Y = 162,955.39

X = 543,039.37

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.

FORM C&GS-181b
(12-61)U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):		DATE:
L. C. Lajoye		Feb. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Mean high water located by Kelsh Plotter using the October 5, 1960 photography and revised using photography of September 25, 1961.		
PROJECTION AND GRIDS RULED BY (IV):		DATE
RAC		18 Nov. 1960
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
JDC		22 Nov. 1960
CONTROL PLOTTED BY (III):		DATE
D. M. Brant		18 Apr. 1961
CONTROL CHECKED BY (III):		DATE
E. L. Rolle		18 Apr. 1961
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
Aerotriangulation - Washington		Jan 1961
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	D. M. Brant	Dec. 1961
D. M. Brant	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
D. M. Brant		Feb. 1962
SCRIBING BY (III):		DATE
C. A. Liscomb		Aug. 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
D. M. Brant		Aug 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 2339	5 Oct. 1960	0931	1:25,000	0.4 ft. above MLLW
60 W 2347 & 2348	5 Oct. 1960	0933	1:25,000	0.3 ft. above MLLW
61 W 1065 thru 1067	25 Sept. 1961	0918	1:25,000	0.4 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: Kihel Maalaea Bay		1.6	2.3
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

Leo F. Beugnet - Atlantic Marine Center

DATE:

Feb. 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):

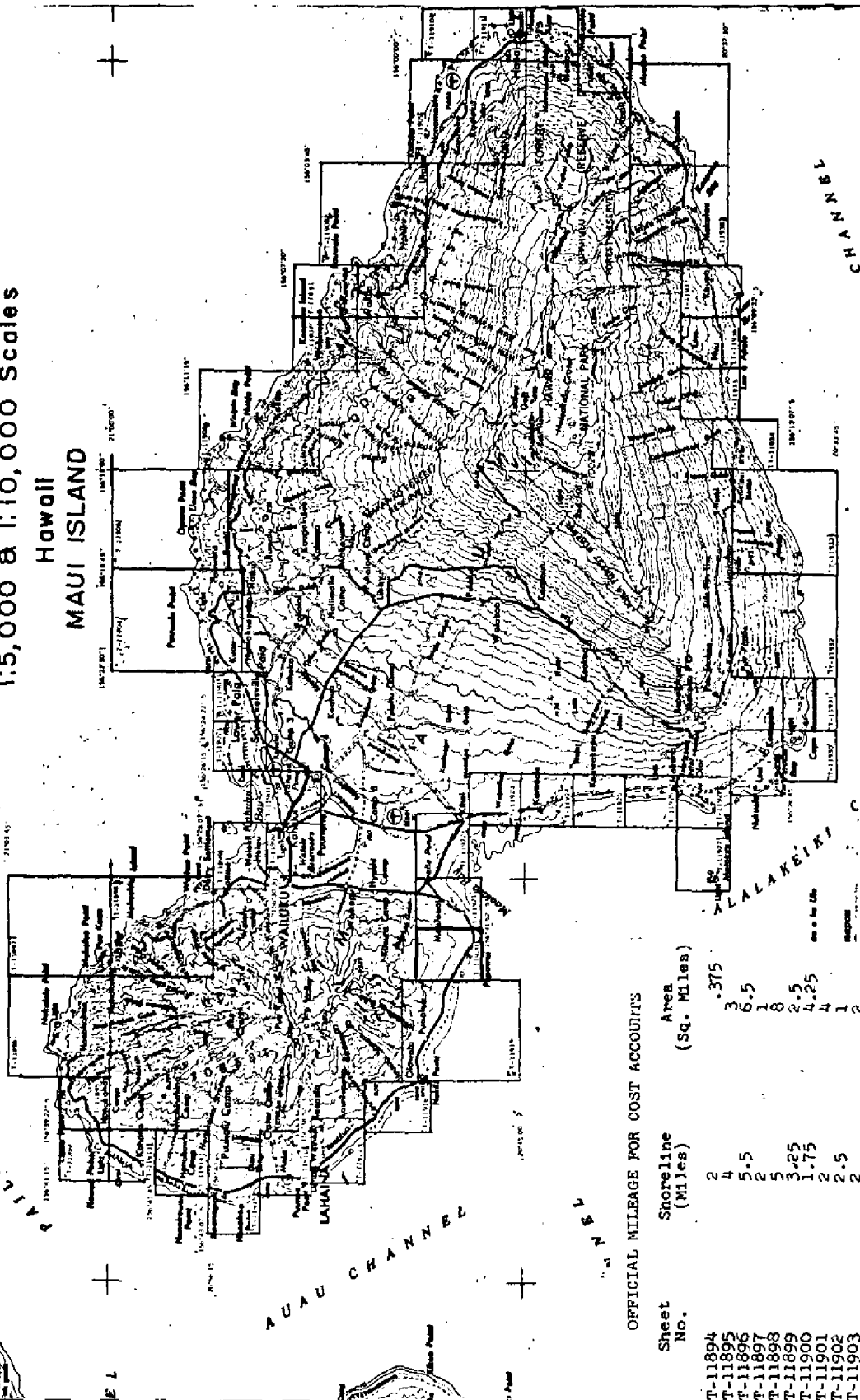
16

REMARKS:

COMPILATION RECORD	COMPLETION DATE	REMARKS
Shoreline furnished fur hydro	Dec. 5, 1961	superseded
Shoreline revised using 1961 photography	Feb. 9, 1962	
Final compilation completed	August 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	6
T-11908	5	7.8
T-11909	4.7	16
T-11910	.75	.25
T-11911	2.7	2
T-11912	27	3
T-11913	2.3	4.5
T-11914	2.5	2.2
T-11915	2.5	4
T-11916	2.5	2

OFFICIAL MILEAGE FOR COST ACCOUNTS

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

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	5.5	4
T-11938	5	4

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11920

Shoreline map T-11920 (1:5,000 scale) is one of 49 similar maps in Project PH-6012. It covers a part of the southwest shore of Maui Island, Hawaii from Longitude $156^{\circ} 31' 51.5''$ northwestward to Longitude $156^{\circ} 33' 45''$.

This was a stereoscopic instrument project in advance of hydrographic surveys to be made in the same area. The Stereoplanigraph was used for the bridging of horizontal control and to establish adequate pass points for the setting of models on the Kelsh Plotter.

Field operations preceding compilation included the recovery and identification of horizontal control, selection of hydrographic signals and field inspection.

The Kelsh compilation was at 1:5,000 scale, from which a film positive showing shoreline, alongshore detail and photo-hydro signals was furnished for preparation of the boat sheet. Ratio photographs were provided for locating additional hydrographic signals.

The map is a Vinylite sheet 2' 22.5" in latitude by 1' 52.5" in longitude. A cronar positive and a cronar negative are provided for record and registry.

FIELD INSPECTION REPORT

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

SCALE FACTOR 1:000

1 FT. = 3048006 METER COMPUTED BY: J.C.R DATE 12 July, 1962	CHECKED BY: D. BRANT DATE 17 July, 1962	COMM-DC-57843
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PHOTOGRAMMETRIC PLOT REPORT
T-11920

Please refer to the Photogrammetric Plot Report for
Maui Island, Hawaii dated March 1961 bound with the
Descriptive Report for T-11894.

COMPILATION REPORT
T-11920

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

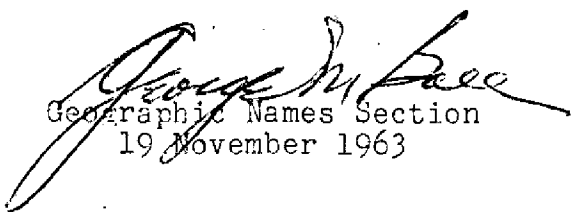
48. Geographic Names List

Kaalaina Gulch
Kamanawai Gulch
Kamaohi Gulch

Makahuna Gulch
Manawainui Gulch
Manuohule Point
Mokumana Gulch

Opunaha Gulch

Papawai Point


Geographic Names Section
19 November 1963

49. NOTES TO THE HYDROGRAPHER

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

2001	West end of guardrail	60 W 2347
2002	East end of guardrail	60 W 2347
2003	West end of guardrail	60 W 2347
2004	East end of guardrail	60 W 2347
2005	West end of guardrail	60 W 2347
2006	East end of guardrail	60 W 2347
2007	West end of guardrail	60 W 2347
2008	Northwest end of guardrail	60 W 2347
2009	Southeast end of guardrail	60 W 2347
2010	Northwest end of guardrail	60 W 2347
2011	Northwest end of guardrail	60 W 2347
2012	Southeast end of guardrail	60 W 2347
2013	Northwest end of guardrail	60 W 2347
2014	Northwest end of guardrail--middle of three	60 W 2347
2015	Northwest corner of tunnel partal	60 W 2347
2016	Red rag on kiawe bush	60 W 2347

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PHOTOGRAMMETRIC OFFICE REVIEW

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

T-11920

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 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 DMB	
	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 NONE	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: Donald 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 <i>Joseph Steinberg</i> , For: D.M. Brant			SIGNATURE OF SUPERVISOR <i>Joseph Steinberg</i>		

USE REVERSE SIDE FOR REMARKS

USCOMM-DC 28353-P61

FIELD EDIT REPORT
T-11920

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-11920
SHORELINE

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Planetable Surveys No. 2462, 1:10,000 scale made in 1900²⁴ with No. 3268, 1:20,000 scale made in 1912.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S quadrangle Maalaea, Hawaii, 1:24,000 scale, edition of 1954. The maps are in good general agreement considering the difference in scale. Many of the small islets or rocks, shown on the U.S.G.S. quadrangle lying offshore of the MHWL are not visible on the photographs of the area and therefore are not delineated on the manuscript.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-8580 (SU-10-5-61) and PF-10-1-62, Sheet A. Rocks located at the following positions on the manuscript are²⁵ shown on the boat sheet.

Latitude	Longitude
20° 46' 42"	156° 32' 02"
20 46 39	156 32 23
20 46 44	156 32 30
20 46 50	156 32 37

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4130, 1:80,000 scale, 4th edition revised August 31, 1964. Except for the rocks noted in item 64 no other offshore rocks were visible on the photography of the area.

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
Director, Atlantic Marine Center

Approved by:

L. F. Woodcock
Chief, Photogrammetry Division

Charles L. ...
Chief, Cartographic Division
Photogrammetria

Chief, Chart Division

Chief, Operations Division

