

11904

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-11904

LOCALITY

State Hawaii

General locality Maui Island

Locality Kuau - Puniawa Point

1960 - 1962

CHIEF OF PARTY

H. J. Seaborg, Honolulu District Office
W. E. Randall, Baltimore District Office

LIBRARY & ARCHIVES

DATE _____

USCOMM-DC 5087

11904

DESCRIPTIVE REPORT - DATA RECORD

T -11904

PROJECT NO. (II):

PH 6012

(21034)

FIELD OFFICE (III):

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 Pantograph 1:10,000

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): ~~MSE~~ MHW~~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):

HAIKU (HGS), 1871, 1950

LAT.:

20°55' 23.437"

LONG.:

156°20' 03.309"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

y = 214,347.61 Ft. x = 613,446.63 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): J. C. Lajoie		DATE: March 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): MHW located by Kelsh Plotter using photography of October 1960 supplemented by photography of 1962.		
PROJECTION AND GRIDS RULED BY (IV): R.A.C.		DATE 11-18-60
PROJECTION AND GRIDS CHECKED BY (IV): J.D.C.		DATE 11-22-60
CONTROL PLOTTED BY (III): D. M. Brant		DATE 1-24-61
CONTROL CHECKED BY (III): H. P. Eichert		DATE 1-24-61
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Aerotriangulation - Washington Office		DATE 1961
STEREOSCOPIC INSTRUMENT COMPILATION (III): J. D. Mc Evoy	PLANIMETRY J. D. Mc Evoy	DATE 3-62
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): J. D. Mc Evoy		DATE 4-62
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. M. Brant		DATE 4-62
REMARKS: FIELD EDIT JULY 1962 J.C. Lajoie NO FIELD EDIT SHEET SUBMITTED		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

RWW Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2309 thru 2311	2 Oct. 1960	0912	1:25,000	1.0 ft. above MLLW
61 W 1199 thru 1202	26 Sept. 1961	0907	1:15,000	0.6 ft. above MLLW
60 W(C) 3460 thru 3465	29 Oct. 1960	0912	1:10,000	0.5 ft. above MHW
60 W(C) 3446	29 Oct. 1960	0851	1:10,000	0.4 ft. above MHW
60 W(C) 3098	19 Oct. 1960	0744	1:10,000	0.5 ft. above MLLW

Tides computed from Predicted Tide Tables.

Z

TIDE (III)

Diurnal

Journal

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Honolulu, Hawaii			1.2	1.9
SUBORDINATE STATION: Kahului, Hawaii			1.4	2.2
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, Norfolk Regional Office		DATE: May 1966 Oct. 1965		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	1	RECOVERED:	IDENTIFIED:	
		1	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):		6		

REMARKS:

H.

COMPILATION RECORD

COMPLETION DATE

REMARKS

Shoreline furnished for hydro	March 1962	Superseded
Final Compilation Completed	October 1963	

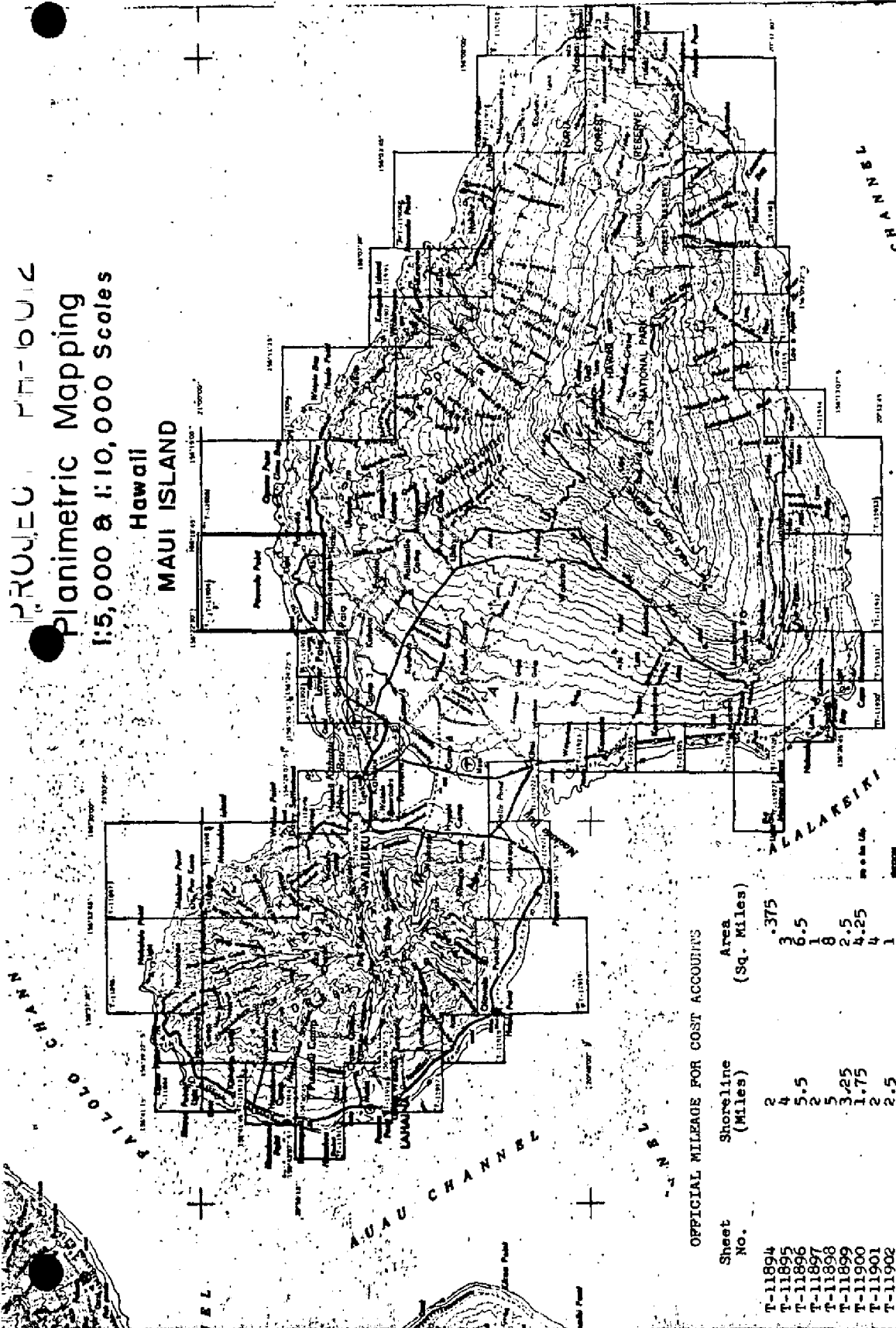
PROJECT PH-6012

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	5	1
T-11898	3.25	8
T-11899	1.75	2.5
T-11900	2	4.25
T-11901	2.5	4
T-11902	2	1
T-11903	2.5	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	3
T-11912	2.2	3
T-11913	2.5	4.5
T-11914	2.5	2.2
T-11915	2.5	4
T-11916	2.5	2.6
T-11917	27	4

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	1	.04
T-11927	3	1.5
T-11928	4.5	3
T-11929	1.5	.25
T-11930	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	6
T-11938	4.5	3
T-11939	4.5	3

6.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11904

Shoreline survey T-11904 covers a part of the coast of Maui Island in the vicinity of Maliko Bay. The map was compiled at 1:10,000 scale by Kelsh Instrument methods. The primary purpose of the survey was to furnish new shoreline for nautical charts and provide photo-hydro support data for hydrographic surveys in the same area.

Field operations preceding compilation included recovery and identification of horizontal control, field inspection and pre-selection of photo-hydro stations.

Kelsh instrument compilation was accomplished using the 1:25,000 scale panchromatic photography of October 2nd and 26th 1960 and the supplemental control established by aerotriangulation. Cronaflex copies of the map manuscript along with specially prepared ratio photographs were provided for preparation of the boat sheet, field edit and photo-hydro support purposes.

The manuscript is a vinylite sheet 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-11904

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

MAP T. 11904

PROJECT NO. PH 6012

SCALE OF MAP
1:10,000

SCALE FACTOR 1.000

[illegible]

1 FT. = .3048006 METER
COMPUTED BY:

J.C.R.

11 July 1962

CHECKED BY: **Brant**

DATE _____

13 July 1962

COMM-DC-57843

PHOTOGRAMMETRIC PLOT REPORT
T-11904

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-11904

For additional data pertaining to this survey please refer to the Field Inspection Report bound with T-11896 and the Photogrammetric Plot Report bound with T-11894.

ITEMS 31 THRU 36

Please refer to the Compilation Report bound with T-11896

37? LANDMARKS AND AIDS

There are no landmarks within the limits of compilation.
One aid to navigation, which falls within the limits of compilation, is reported on form 567.

38. CONTROL FOR FUTURE SURVEYS

No control for future surveys was established during compilation.

39. JUNCTIONS

Satisfactory junctions were made with T-11903 to the west and with T-11905 to the east. There is no contemporary survey on the south; the Pacific Ocean is to the north.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with the following U.S.G.S. quadrangles:
Paia, Hawaii - 1:24,000 scale, edition of 1954.
Haiku, Hawaii - 1:24,000 scale, edition of 1957.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with the following nautical charts:
4116 - 1:250,000 scale - 12th edition, August 17, 1964
4124 - 1:30,000 scale - 3rd edition, May 3, 1965

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Approved:

J. Bull
J. Bull
Capt. C&GS
Norfolk Regional Officer

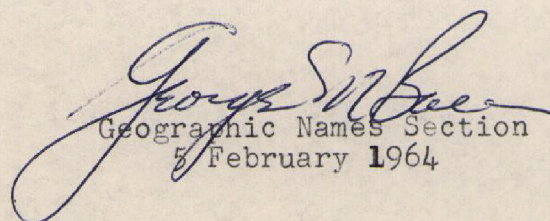
Respectfully submitted:

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

48. Geographic Names List

East Kuiaha Gulch
Hookipa Park
Kuau
Kuiaha Gulch
Maliko Bay
Maliko Gulch
Puniawa Point
Pauwela Point

* Kanemoeala Gulch


Geographic Names Section
5 February 1964

* Appears on original Geographic
Names sheet

49. NOTES FOR THE HYDROGRAPHER

The positions of the following photo-hydro signal sites were located photogrammetrically during compilation.

0401	Water gable, tin roofed house	60 W 2309
0402	Power pole	60 W 2309
0403	Water tank	60 W 2310
0404	N. W. corner concrete shed	60 W 2310
0405	S.W. corner rock pile	60 W 2310
0406	Cross on high point of rock	60 W 2311

PHOTOGRAMMETRIC OFFICE REVIEW

~~T-11904~~ T-11904

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 DMB	
16. AIDS TO NAVIGATION DMB		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 DMB		30. OTHER CULTURAL FEATURES DMB	
BOUNDARIES							
31. BOUNDARY LINES DMB				32. PUBLIC LAND LINES DMB			
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	
40. REVIEWER For: D. M. BRANT <i>Joseph Steinberg</i>				SUPERVISOR, REVIEW SECTION OR UNIT <i>Joseph Steinberg</i>			
41. REMARKS (See attached sheet)							
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT							
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.							
COMPILER <i>Joseph Steinberg</i> For: D. D. McEVOY *				SUPERVISOR <i>Joseph Steinberg</i>			
43. REMARKS Refer to page 13							

FIELD EDIT REPORT
T-11904

Please refer to the Field Edit Report for Maui Island,
Hawaii, strips 1 through 7, which is bound with the Descriptive
Report for T-11894. NO CHANGES IN photogrammetric
survey as the result of field edit.

14.

REVIEW REPORT T-11904
SHORELINE
May 11, 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with copies of Registered Planetable Surveys Nos. 3270 and 3272, 1:20,000 scale, both approved March 30, 1914. There are no outstanding discrepancies between these two planetable surveys and manuscripts T-11904 although the latter is more depictive of the area.

Two submerged rocks shown on survey 3270, one at latitude $20^{\circ} 56.1'$ longitude $156^{\circ} 22.3'$ the other at latitude $20^{\circ} 56.3'$ longitude $156^{\circ} 21.6'$ do not appear on photography of the area.

Map manuscript T-11904 supersedes the prior planetable surveys for future nautical charting purposes, *except for map information discussed in the preceding paragraph*.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangles Paia, Hawaii, 1:24,000 scale, edition of 1957. The shoreline and alongshore detail of these quadrangles and map manuscript T-11904 are not in complete agreement. Details appear to be somewhat generalized on the quadrangles. Discrepancies between the surveys have been noted on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheets PF-10-3-62 (Sheet A) and PF-10-3-62 (Sheet B). The shoreline of the boat sheets was obtained from a cronaflex copy of the map manuscript and there were no discrepancies.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4130, 1:30,000 scale, 3rd edition, May 3, 1965. The shoreline of the manuscript and chart are in good agreement except in the case of the small islands in the vicinity of Maliko Bay and Pauwela Point. The offshore rocks between longitudes $156^{\circ} 21.0'$ and longitude $156^{\circ} 22.0'$ that do not appear on photography of the area have been noted on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with project 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:

Charles Henn
Chief, Cartographic Branch *AMS*

L. F. Woodcock
Chief, Photogrammetry Division

John P. Boyer 2/2/68
Chief, Chart Division
Marine

Chief, Operations Division

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE REVISED
TO BE REFILED

STRIKE OUT TWO

Q

I recommend that the following objects which have *(three-not)* been inspected from seaward to determine their value as landmarks be charted on *(isolated-from)* the charts indicated.

The positions given have been checked after listing by D. M. Brant.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-*floating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

*** TABULATE SECONDS AND METERS**

USCOMM-DC 25412-P61

