

# 11901

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-11901

### LOCALITY

State Hawaii  
General locality Maui Island  
Locality Kanaha Pond

1960 - 1961

### CHIEF OF PARTY

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

### LIBRARY & ARCHIVES

DATE \_\_\_\_\_

USCOMM-DC 5087

# 11901

## DESCRIPTIVE REPORT - DATA RECORD

T-11901

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):

1:5,000

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): 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

See remarks page 2.

REFERENCE STATION (III):

MAUI NORTH BASE (HQS), 1871

LAT.:

20° 53' 59.853"

LONG.:

156° 26' 58.307"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 205,847.24 Ft.

X = 574,115.55 Ft.

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: Feb. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Located by Kelsh Plotter from photography of October 1960 supplemented by 1962 Photography.		
PROJECTION AND GRIDS RULED BY (IV): R.A.C.		DATE 11-21-60
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  1960
STEREOSCOPIC INSTRUMENT COMPILATION (III):  J. D. McEvoy	PLANIMETRY J. D. McEvoy	DATE 7-61
	CONTOURS J. D. McEvoy	DATE 8-63
MANUSCRIPT DELINEATED BY (III):  J. D. McEvoy		DATE 8-61
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  D. M. Brant		DATE 8-61
REMARKS:  FIELD EDIT MAY 1961 J.C. Lajoie NOTE: NO FIELD EDIT SHEET SUBMITTED		

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2305	2 Oct. 1960	0910	1:25,000	1.0 ft. above MLLW
Stage of tide computed from predicted tides.				

## TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	<del>SEMI</del> 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: April 1966

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

2

RECOVERED:

2

IDENTIFIED:

1

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):

5

REMARKS:

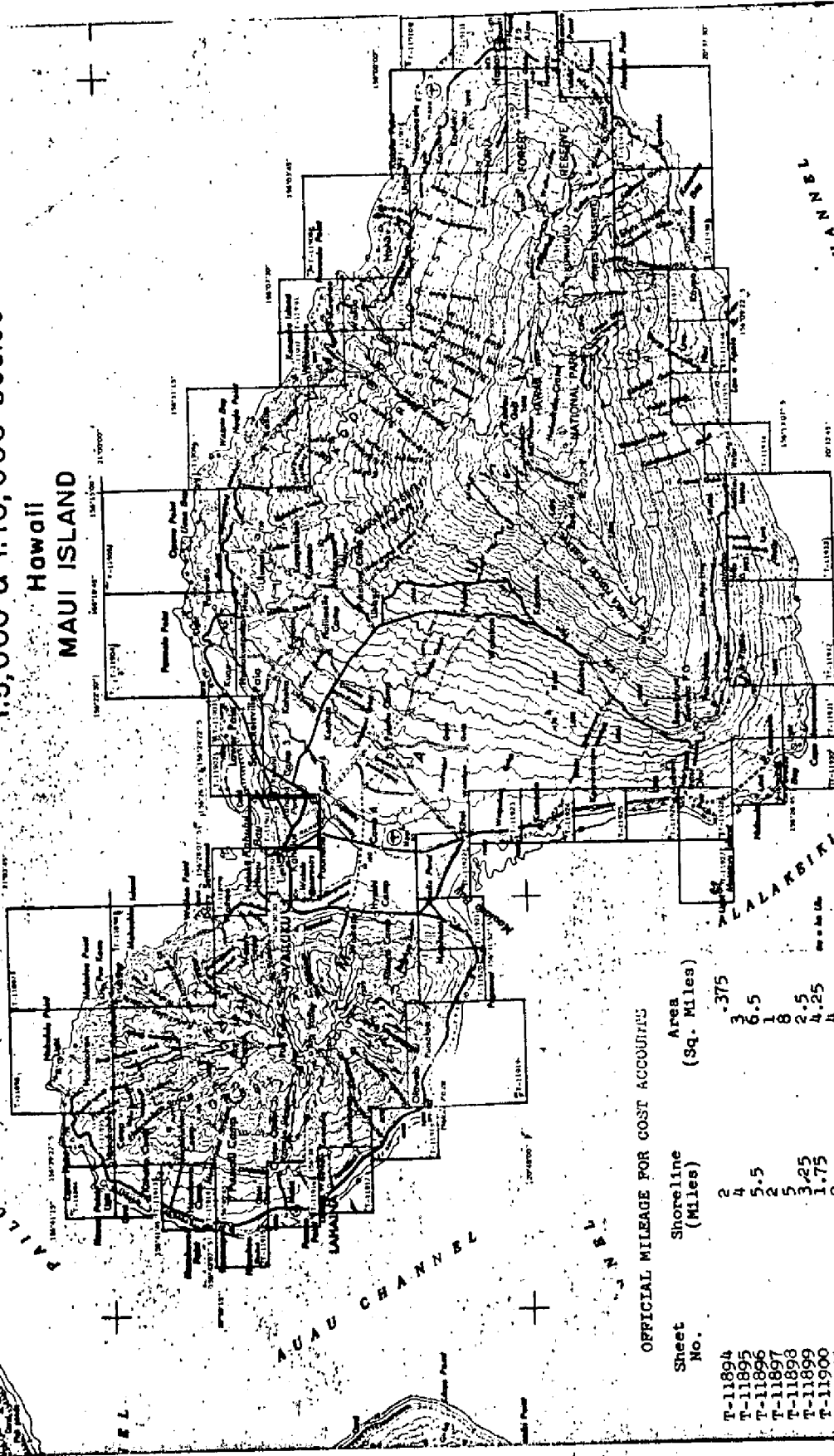
4.

COMPILATION RECORD	COMPLETION DATE	REMARKS
Shoreline furnished for hydro	July, 1961	superseded
Final Compilation Completed	Oct. 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	3.375
T-11895	4	6.5
T-11896	5.5	1
T-11897	2	8
T-11898	5	2.5
T-11899	3.25	4.25
T-11900	1.75	4
T-11901	2.5	1
T-11902	2	2
T-11903	5	6
T-11904	4.5	4
T-11905	6.5	10
T-11906	7	7.8
T-11907	5	6
T-11908	4.7	16
T-11909	.75	.25
T-11910	2.7	3
T-11911	2.7	3
T-11912	2.2	4.5
T-11913	2.2	2.2
T-11914	2.5	4
T-11915	2.5	4
T-11916	2.7	2.6

## 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

## 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	4
T-11938	5.5	6
T-11939	4.5	3

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11901

Shoreline survey T-11901 covers a part of the coast of Maui Island to the eastward of Kahului Harbor. The map was compiled at 1:5,000 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, preselection of photo-hydro stations and contouring the area immediately adjacent to Kahului Harbor.

Kelsh instrument compilation was accomplished using the 1:25,000 scale panchromatic photography of 2 October 1960 and 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-11901

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



U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
DESCRIPTIVE REPORT  
CONTROL RECORD

MAP T-11901

PROJECT NO. PH 6012

SCALE OF MAP 1:5,000

SCALE FACTOR

1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		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)
KAHULUI AIRPORT CONTROL TOWER, BEACON, 1960		Old Hawaiian	204,566						
			577,369						
MAUI NORTH BASE (HGS), 1871	P.C. 14	"	205,847.24						
			574,115.55						
PUU NENE, PUU NENE SUGAR MILL	P.C. 19	"	195,323.64						
			571,873.98						
PUU NENE, PUU NENE SUGAR MILL	P.C. 19	"	195,217.84						
			571,669.47						

PHOTOGRAMMETRIC PLOT REPORT  
T-11901

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-11901

ITEMS 31 THRU 36

Please refer to the compilation report bound with T-11900

37. LANDMARKS AND AIDS

The landmark (TWIN STACKS) on chart 4124, latitude  $20^{\circ} 54.0'$  longitude  $156^{\circ} 27.9'$  is not shown on this survey.

38. CONTROL FOR FUTURE SURVEYS

No control for future surveys was established during compilation.

39. JUNCTIONS

Satisfactory junctions were made with T-11900 to the west and T-11902 on the east. There is no contemporary survey on the south; The Pacific Ocean is on the north.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Paia and Wailuku, Hawaii quadrangles, 1:24,000 scales, editions of 1954 and 1955 respectively.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with the following charts:

4116 - 1:250,000 scale - 12th edition, August 17, 1964

4124 - 1:30,000 scale - 3rd edition, May 3, 1965

4130 - 1:80,000 scale - 4th edition, August 31, 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.)

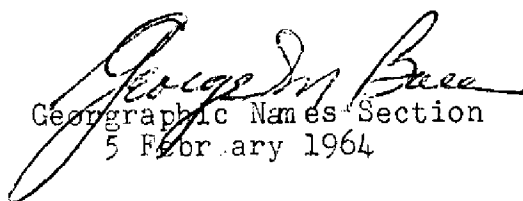
Approved:

*J. Bull*  
J. Bull  
CAPT., USESSA  
Director, Atlantic Marine Center

T-11901

48. Geographic Names List

Hobron Point  
Kahului  
Kalialinui Gulch  
Kanaha Pond  
Spartan Reef

  
Geographic Names Section  
5 February 1964

49. NOTES TO THE HYDROGRAPHER

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

0101	N.E. Corner, yellow power plant bldg.	60 W 2305
0102	North corner washed out pillbox	60 W 2305
0103	Offshore corner of pillbox	60 W 2305
0104	Offshore corner of pillbox	60 W 2305
0105	Corner of wall at old foundation	60 W 2305

C&GS FORM 1002 (11-18-61)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
50		<b>PHOTOGRAMMETRIC OFFICE REVIEW</b> <b>T-10363 T-11901</b>	
1. PROJECTION AND GRIDS <div style="text-align: center;">DMB</div>	2. TITLE <div style="text-align: center;">DMB</div>	3. MANUSCRIPT NUMBERS <div style="text-align: center;">DMB</div>	4. MANUSCRIPT SIZE <div style="text-align: center;">DMB</div>
<b>CONTROL STATIONS</b>			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY <div style="text-align: center;">DMB</div>	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) <div style="text-align: center;">NONE</div>		7. PHOTO HYDRO STATIONS <div style="text-align: center;">DMB</div>
8. BENCH MARKS <div style="text-align: center;">DMB</div>	9. PLOTTING OF SEXTANT FIXES <div style="text-align: center;">NONE</div>	10. PHOTOGRAMMETRIC PLOT REPORT <div style="text-align: center;">DMB</div>	11. DETAIL POINTS <div style="text-align: center;">DMB</div>
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
12. SHORELINE <div style="text-align: center;">DMB</div>	13. LOW-WATER LINE <div style="text-align: center;">DMB</div>	14. ROCKS, SHOALS, ETC. <div style="text-align: center;">DMB</div>	15. BRIDGES <div style="text-align: center;">DMB</div>
16. AIDS TO NAVIGATION <div style="text-align: center;">DMB</div>	17. LANDMARKS <div style="text-align: center;">DMB</div>	18. OTHER ALONGSHORE PHYSICAL FEATURES <div style="text-align: center;">DMB</div>	19. OTHER ALONGSHORE CULTURAL FEATURES <div style="text-align: center;">DMB</div>
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES <div style="text-align: center;">DMB</div>	21. NATURAL GROUND COVER <div style="text-align: center;">DMB</div>		22. PLANETABLE CONTOURS <div style="text-align: center;">DMB</div>
23. STEREOSCOPIC INSTRUMENT CONTOURS <div style="text-align: center;">NONE</div>	24. CONTOURS IN GENERAL <div style="text-align: center;">DMB</div>	25. SPOT ELEVATIONS <div style="text-align: center;">DMB</div>	26. OTHER PHYSICAL FEATURES <div style="text-align: center;">DMB</div>
<b>CULTURAL FEATURES</b>			
27. ROADS <div style="text-align: center;">DMB</div>	28. BUILDINGS <div style="text-align: center;">DMB</div>	29. RAILROADS <div style="text-align: center;">DMB</div>	30. OTHER CULTURAL FEATURES <div style="text-align: center;">DMB</div>
<b>BOUNDARIES</b>			
31. BOUNDARY LINES <div style="text-align: center;">DMB</div>		32. PUBLIC LAND LINES <div style="text-align: center;">DMB</div>	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES <div style="text-align: center;">DMB</div>	34. JUNCTIONS <div style="text-align: center;">DMB</div>		35. LEGIBILITY OF THE MANUSCRIPT <div style="text-align: center;">DMB</div>
36. DISCREPANCY OVERLAY <div style="text-align: center;">DMB</div>	37. DESCRIPTIVE REPORT <div style="text-align: center;">DMB</div>	38. FIELD INSPECTION PHOTOGRAPHS <div style="text-align: center;">DMB</div>	39. FORMS <div style="text-align: center;">DMB</div>
40. REVIEWER For: <i>Joseph Steinberg</i> D. M. Brant		SUPERVISOR, REVIEW SECTION OR UNIT <i>Joseph Steinberg</i>	
41. REMARKS (See attached sheet)			
<b>FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT</b>			
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. M. Brant		SUPERVISOR <i>Joseph Steinberg</i>	
43. REMARKS			



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FIELD EDIT REPORT  
T-11901

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.

15.

REVIEW REPORT T-11901  
SHORELINE  
April 29, 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with copies of Registered Planetable surveys No. 4465, 1:5,000 scale made in March and April 1929 and No. 3270, 1:20,000 scale made in 1911-1912. The shoreline had receded since the time of these surveys, and new cultural features have altered the alongshore area. The shoreline of the planetable surveys has been noted on the comparison print. \*

Map manuscript T-11901 supersedes the prior surveys in the area mapped and should be used for future nautical charts of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangles Wailku, 1:24,000 scale, edition of 1955 and Paia, 1:24,000 scale, edition of 1954. The quadrangles and manuscript are in good general agreement in the area compiled.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8576 (SU-10-1-61) The shoreline for the boat sheet was obtained from a reduced copy of the manuscript and there are no discrepancies in the shoreline.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4124, 1:30,000 scale, 3rd edition May 3, 1965. No discrepancies in the alongshore or offshore areas were found during the course of Final Review.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

No items requiring investigation by future survey parties in the area were noted.

\* Comparison Print destroyed since it serves no useful purpose

Reviewed by:

Leo F. Beugnet  
Leo F. Beugnet

Approved by:

J. Bull  
J. Bull, CAPT., USESSA  
Director, Atlantic Marine Center

Approved by:

Charles Lerner  
Chief, Cartographic Branch JMB

John A. Boyer 2/21/68  
Chief, Chart Division  
Marine

L. F. Woodward  
Chief, Photogrammetric Division

Chief, Operations Division



