

11903

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-11903
LOCALITY	
State	Hawaii
General locality	Maui Island
Locality	Paia Bay
1960 — 19 61 *	
CHIEF OF PARTY	
H. J. Seaborg, Honolulu District Office	
W. E. Randall, Baltimore District Office	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

* Refer to page 2 (remarks section)

11903

DESCRIPTIVE REPORT - DATA RECORD

T-11903

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):

1:5,000

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~~ *MHW*
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):

PUU NENE 2, 1950

LAT.:

20° 54' 06.562"

LONG.:

156° 23' 56.104"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

= 206,550.21 Ft x = 591,389.92 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 (III): J. C. Lajoie		DATE: Feb. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): MHW Located by Kelsh Plotter from October 1960 Photography and field inspection photography.		
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 7-61
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): J. D. Mc Evoy		DATE 8-61
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. M. Brant		DATE 8-61
REMARKS: Field edit - the field edit report for this map is a part of a combined report, dated August 1962, bound with the Descriptive Report for T-11894. The legend note for the subject survey (T-11903) indicates a field edit date of May 1961. No results from the natural or cultural changes were reported by the field editor.		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2308	Oct. 2, 1960	0912	1:25,000	1.0 ft. above MLLW
Tide computed from Predicted Tide Tables.				

TIDE (III)

Diurnal

	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): None

RECOVERED:

0

IDENTIFIED:

0

NUMBER OF BM(S) SEARCHED FOR (II): None

RECOVERED:

0

IDENTIFIED:

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

8

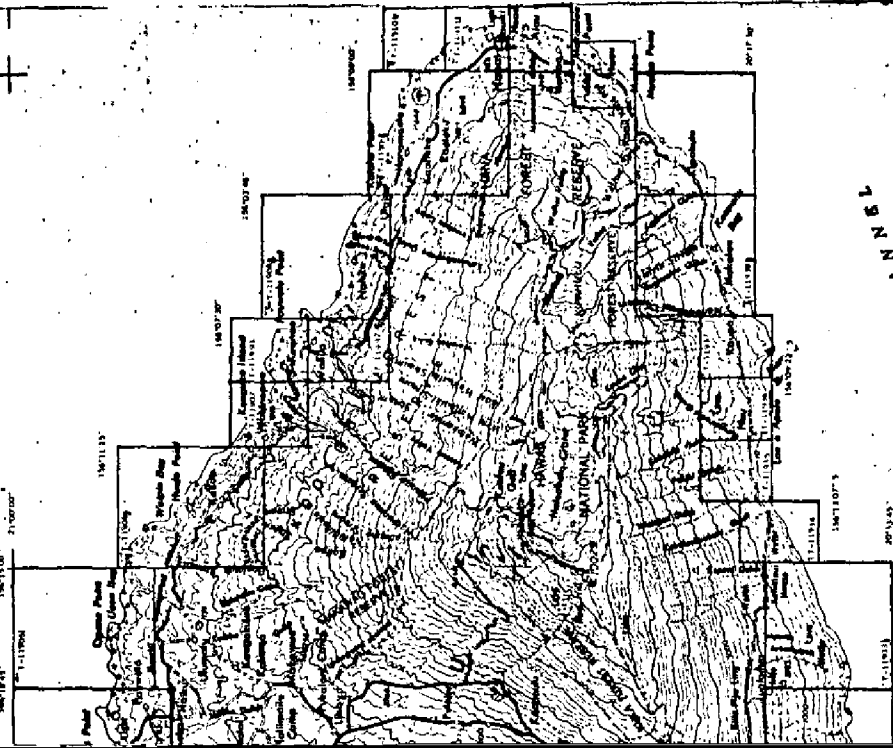
REMARKS:

41

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	July 1961	Superseded
Compilation completed	Sept. 1963	

U.S. GEOLOGICAL SURVEY Topographic Mapping 1:100,000 Scale

HAWAII
 MAUI ISLAND



CHANNEL

OFFICIAL MILEAGE FOR COST ACCOUNTS

T ACCOUNTS	Area (Sq. Miles)	Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11931	3		2.5	1.5
T-11932	2.5		4.5	12
T-11933	1.5		5	18
T-11934	1		2.7	3
T-11935	1.04		2.5	4
T-11936	1.5		5	4
T-11937	3		5	6
T-11938	.25		4.5	3
T-11939			5	3

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11903

Shoreline survey T-11903, compiled at 1:5,000 scale, covers a part of the coastline of Maui Island in the vicinity of Paia Bay. The primary purpose of the survey was to furnish new shoreline for nautical charts and to provide photo-hydro support data for hydrographic surveys to be made in the same area.

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

Compilation was by Kelsh Instrument methods using the pan-chromatic photography of October 2nd 1960 and the control established by aerotriangulation. A cronaflex copy of the manuscript along with specially prepared ratio photographs with specially prepared ratio photographs were furnished for preparation of the boat sheet and for the location of hydro signals by photogrammetric methods.

The manuscript is a vinylite sheet which was smooth drafted and reproduced. One cronar positive and one cronar negative are provided for record and registry.

FIELD INSPECTION REPORT
T-11903

Please refer to the Field Inspection Report bound with the
Descriptive Report for T-11896.

MAP T-11903 PROJECT NO. PH-6012 SCALE OF MAP 1:5,000 SCALE FACTOR

[illegible]

1 FT. = 3048006 METER COMPUTED BY:	10 July 1961 DATE	CHECKED BY:	13 July 1961 DATE	M-2388-12
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PHOTOGRAMMETRIC PLOT REPORT
T-11903

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-11903

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, 32, 33, 34, 35, 36

Please refer to the Compilation Report Bound with T-11896

37. LANDMARKS AND AIDS

The stack on chart 4124 at latitude $20^{\circ} 54.8'$, longitude $156^{\circ} 23.2'$ is shown on this survey as PAIA PUMPING PLANT STACK, 1929. It is not visible on the photographs of October 1960.

38. CONTROL FOR FUTURE SURVEYS

No control for future surveys was established during compilation.

39. JUNCTIONS

Satisfactory junctions were made with T-11902 to the west and with T-11904 to the east. There is no contemporary survey to the south; the Pacific Ocean is to the north.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Paia, Hawaii quadrangle, 1:24,000 scale, edition of 1954.

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

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

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

Approved:

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

T-11903

48. Geographic Names List

Kapukaulua Point
Lower Paia
Paia Bay

* KAILUA GULCH

George M. Bae
Geographic Names Section
5 February 1964

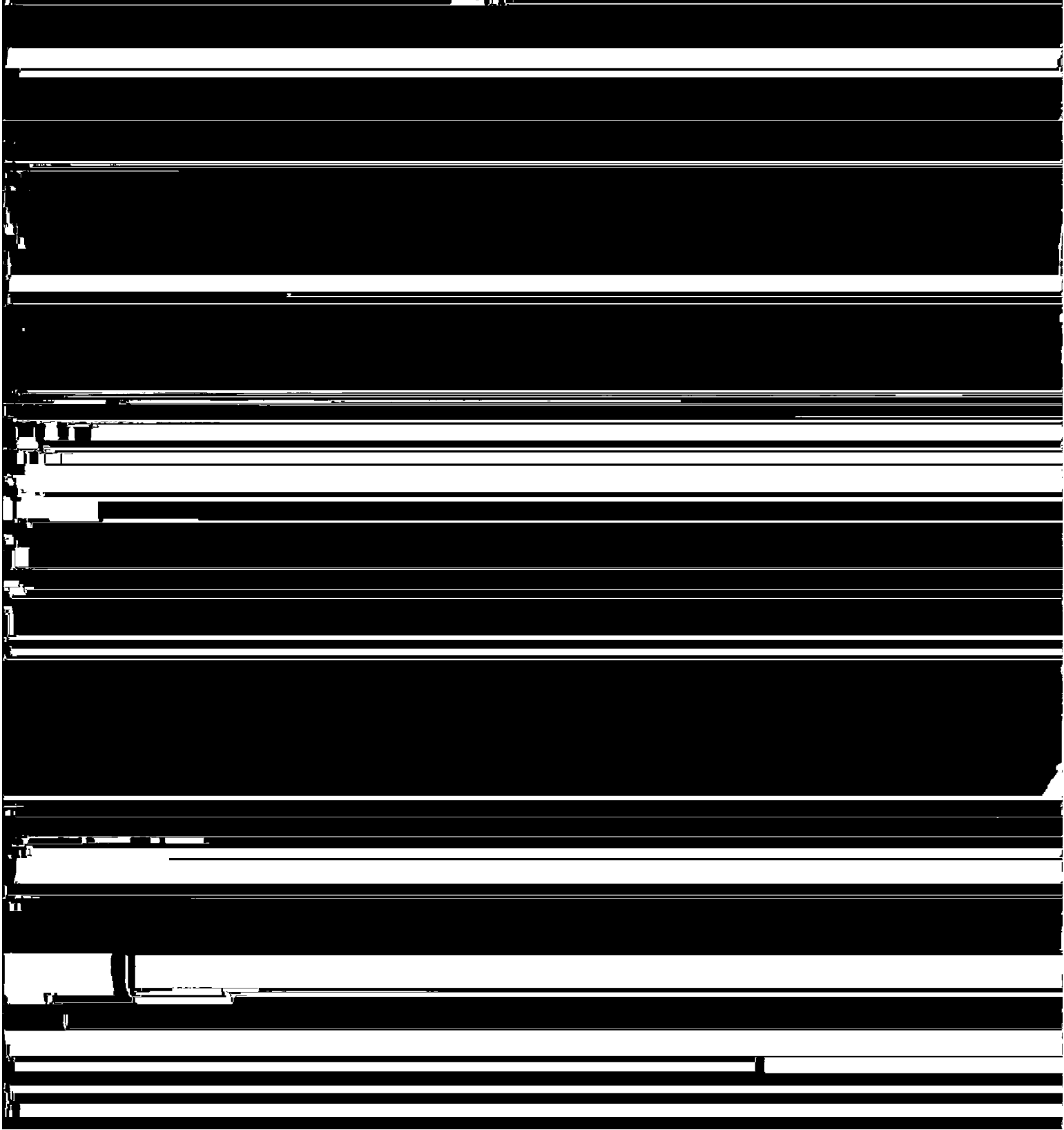
* Appears on Final Name Sheet

49. NOTES TO THE HYDROGRAPHER

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

0301	East end of brush	60 W 2307
0302	Dead tree at HWL	60 W 2307
0303	W. gable small shed at top of conveyor	60 W 2308
0304	Offshore corner of small pillbox	60 W 2308
0305	New stack at Paia Sugar Mill (C&H)	60 W 2308
0306	North gable red roofed house	60 W 2308
0307	White church steeple	60 W 2308
0308	E. gable pink roofed shed	60 W 2308

C&GS FORM 1002 (11-13-61)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW T-10863 T-11903			
1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
DMB	DMB	DMB	DMB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY		7. PHOTO HYDRO STATIONS



14.

FIELD EDIT REPORT
T-11903

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-11903
SHORELINE
May 9, 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. 3270, 1:20,000 scale, made in 1911-1912 and approved March 30, 1914. The shoreline of survey T-11903 is more depictive of the area, the shoreline on the planetable survey being more generalized because of scale.

The rocks that appear on the planetable survey but do not appear on the manuscript have been noted on the comparison print.

Map manuscript T-11903 supersedes the prior planetable survey for chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle Paia, Hawaii, 1:24,000 scale, edition of 1954. The shoreline of the two surveys are in good agreement with the exception of the offshore rocks. Some of the rocks shown on the quadrangle fall within the limits delineated as reefs on the manuscript while others are within the area designated as breakers and is actually a part of Spartan Reef.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet PF-10-3-62 (Sheet A). The shoreline for the boat sheet was evidently taken from a reduced copy of an Incomplete Manuscript. The rocks and small reef areas close inshore delineated on the Advance Manuscript are not shown on the boat sheet.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4124, 1:30,000 scale, 3rd edition, May 3, 1965. A large reef extends one-half to three-fourths of a mile seaward from the MHWL throughout the width of the manuscript. Breakers along the outer fringe of the reef, at the time of photography, prevent accurate delineation of all rocks in the area. The breaker limits have been delineated on the manuscript.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with project instructions and meets the National Standard 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 Lerner L. S. Woodcock
Chief, Cartographic Branch, USCG Chief, Photogrammetry Division

John D. Boyer 2/21/68
Chief, Chart Division Chief, Photogrammetry Division

