

11902

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-11902

LOCALITY

State Hawaii

General locality Maui Island

Locality Papaula Point

1960 - 1961

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE

USCOMM-OC 5087

11902

DESCRIPTIVE REPORT - DATA RECORD

T -11902

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.

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): J. C. Lajoie		DATE: * May 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Mean high water was located by Kelsh Instrument from October 1960 photography from field inspection photographs.		
PROJECTION AND GRIDS RULED BY (IV): R.A.C.		DATE 11-17-60
PROJECTION AND GRIDS CHECKED BY (IV): J.D.C.		DATE 11-22-60
CONTROL PLOTTED BY (III): D.M. Brant		DATE 1-25-61
CONTROL CHECKED BY (III): H.P. Eichert		DATE 1-25-61
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Aerotriangulation - Washington Office		DATE 1961
STEREOSCOPIC INSTRUMENT COMPILATION (III): J.D. McEvoy	PLANIMETRY J.D. McEvoy	DATE 7-61
	CONTOURS Inapplicable	DATE
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 BY J.C. Lajoie * Refer to page 6 of this report concerning dates of both field inspection & field edit		

FORM C&GS-181c
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

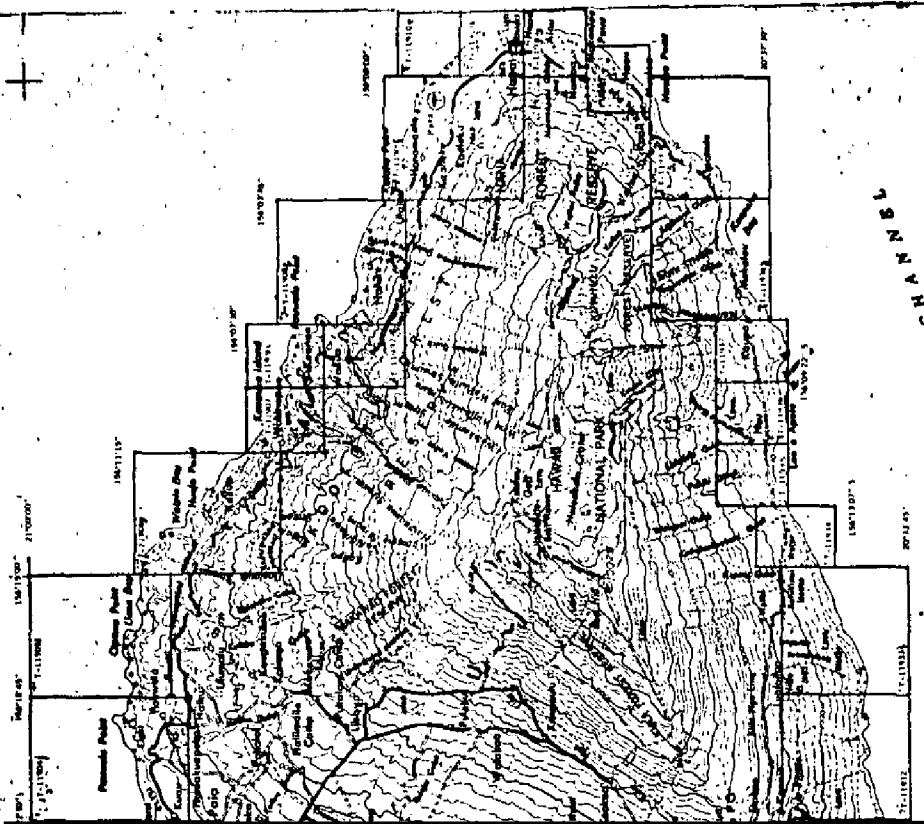
PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2306 & 2307	2 Oct. 1960	0911	1:25,000	1.0 Ft. above MLLW
Stage of tide computed from predicted tides.				
TIDE (III)				Diurnal
			RATIO OF	MEAN - SPRING

COMPILATION RECORD	COMPLETION DATE	REMARKS
Shoreline furnished for hydro	July 1961	Superseded
Final Compilation Completed	Oct. 1963	

Planimetric Mapping 3,000 & 1:10,000 Scales

Hawaii
MAUI ISLAND



CHANNELS

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Area (Sq. Miles)	Shoreline (Miles)	Area (Sq. Miles)
T-11931	3	2.5	1.5
T-11932	3	4.5	12
T-11933	2.5	5	8
T-11934	1.5	2.7	3
T-11935	1	2.5	4
T-11936	.04	5	4
T-11937	1.5	5	6
T-11938	3	5	3
T-11939	.25	4.5	3
T-11940		2.5	3
T-11941		2.5	3

OR COST ACCOUNTS

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11902

Shoreline survey T-11902 covers a part of the coast of Maui Island in the vicinity of Papaula Point. 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 and pre-selection of photo-hydro stations.

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.

During examination of records at the Washington Office, prior to registering the map, conflicting information concerning dates of field inspection and field edit was found to exist as follows:

1. Field Inspection

- 1.1 map - Feb., 1961
- 1.2 DATA Record - May 1961
- 1.3 Report - Sept 1962

2. Field Edit

- 2.1 Map - May 1961
- 2.2 Report - Aug. 1962

Reports on both field inspection and field edit covered more than 1 map.

Apparently field inspection work was done between # Feb. 1961 and May 1961; field edit was ~~completed~~ completed in May 1961

FIELD INSPECTION REPORT
T-11902

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

PHOTOGRAMMETRIC PLOT REPORT
T-11902

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-11902

For additional data pertaining to this survey please refer to the Field Inspection Report for Maui Island 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, fixed aids to navigation or aeronautical aids within the limits of compilation.

38. CONTROL FOR FUTURE SURVEYS

No control for future surveys was located during compilation.

39. JUNCTIONS

Satisfactory junctions were made with T-11901 to the west and with T-11903 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, 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 - 12th edition - August 17, 1964
- 4124 - 1:30,000 - 3rd edition - May 3, 1965
- 4130 - 1:80,000 - 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-11902

48. Geographic Names List

Papaula
Papaula Point
Spartan Reef

49. NOTES TO THE HYDROGRAPHER

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

0201	Offshore corner, concrete pillbox	60 W 2305
0202	Northwest corner, steps on seawall	60 W 2305
0203	Chimney of house	60 W 2307
0204	Rough stone chimney	60 W 2307
0205	House gable	60 W 2307
0206	House gable	60 W 2307
0207	Corner of seawall	60 W 2307
0208	Stake at corner of road	60 W 2307

PHOTOGRAMMETRIC OFFICE REVIEW

T-10363 T-11902

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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 NONE	17. LANDMARKS NONE	18. OTHER ALONGSHORE PHYSICAL FEATURES NONE	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	

33. GEOGRAPHIC NAMES DMB	34. JUNCTIONS DMB	35. LEGIBILITY OF THE MANUSCRIPT DMB
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FIELD EDIT REPORT
T-11902

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-11902
SHORELINE
May 5, 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Planetable survey No. 3270, 1:20,000 scale made in 1911-1912 and approved March 30, 1914. A submerged rock at approximate latitude $20^{\circ} 55.5'$ longitude $150^{\circ} 24.4'$ shown on the planetable survey is not visible on photography of the area.

This manuscript supersedes the planetable survey and should be used for Nautical Chart construction in the area compiled.

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 two surveys are in good general agreement. No major discrepancies were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-8576 (SU-10-1-61) and PF-10-3-62 (Sheet A).

Several of the reefs shown on the manuscript do not appear on the boat sheets. Boat sheet PF-10-3-62 shows a large area to the east of Papaula Point as a foul area. These items have been noted on the comparison sheet. *

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 4124, 1:30,000 scale, 3rd edition May 3, 1965. A submerged rock at approximate latitude $20^{\circ} 55.5'$ longitude $156^{\circ} 24.4'$ is not visible on photography of the area. No major discrepancies between the shoreline of the two surveys were noted.

* Refer to page 17 of this report

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

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

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

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

Approved by:

Charles Leman S.G.B. S. F. Woodcock
Chief, Cartographic Branch Chief, Photogrammetry Division

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

NOTES TO VERIFIER
H-8576 and PF-10-3-62
(Comparison with T-11902)

T-11902 was field edited. Map details were found to be in agreement with their respective ground features.

T-11902 was compared with the subject hydro surveys during final review. Several discrepancies were found and noted in the review report and/or on the comparison print. The discrepancies, involving ledge, reef, foul line and breaker line, resulted, for the most part, from additions and corrections applied to T-11902 by the final reviewer. Any discrepancies remaining after application of changes reflected by the shoreline survey can be resolved through conference.

Washington Office Review Unit.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11902

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.

[illegible]