

11928

Diag. Cht. No. 4116.

11928
82611

| | |
|--|---------------------------|
| 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-11928</u> |
| LOCALITY | |
| State <u>Hawaii</u> | |
| General locality <u>Maui Island</u> | |
| Locality <u>Maluaka Point</u> | |
| <u>1960 - 1962</u> | |
| CHIEF OF PARTY | |
| <u>H. J. Seaborg - Honolulu District Office</u> | |
| <u>Wm. E. Randall - Baltimore District Office</u> | |
| LIBRARY & ARCHIVES | |
| DATE <u>1967</u> | |

5/8/67

USCOMM-DC 5087

10/11/66 - 1962

DESCRIPTIVE REPORT - DATA RECORD

T -11928

PROJECT NO. (II):

PH-6012

FIELD OFFICE (III):

Honolulu District Office

CHIEF OF PARTY

H. J. Seaborg

PHOTOGRAMMETRIC OFFICE (III):

Baltimore District Office

OFFICER-IN-CHARGE

Wm. 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):

PUU OLAI (HGS) (HTS 1929), 1879

LAT.:

20° 38' 22.438"

LONG.:

156° 27' 05.471"

ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):

y = 111,270.00 FT

x = 573,562.23 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 (III): J. C. Lajoie | | DATE: Mar. 1961 |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Mean high water located by Kelsh Plotter from Panchromatic photography of 11 October 1960 and 24 September 1961 supplemented by color photography of 17 October 1960. | | |
| PROJECTION AND GRIDS RULED BY (IV): RAC | | DATE 22 Nov. 1960 |
| PROJECTION AND GRIDS CHECKED BY (IV): JDC | | DATE 6 Dec. 1960 |
| CONTROL PLOTTED BY (III): D. M. Brant | | DATE 22 Mar. 1961 |
| CONTROL CHECKED BY (III): E. L. Rolle | | DATE 22 Mar. 1961 |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Aerotriangulation - Washington Office | | DATE Feb 1961 |
| STEREOSCOPIC INSTRUMENT COMPILATION (III): J. D. Mc Evoy | PLANIMETRY J. D. Mc Evoy | DATE Mar 1962 |
| | CONTOURS Inapplicable | DATE |
| MANUSCRIPT DELINEATED BY (III): L. A. Senasack | | DATE Mar 1962 |
| SCRIBING BY (III): C. A. Lipscomb | | DATE Aug. 1962 |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. M. Brant | | DATE Aug. 1962 |
| 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 2716 | 11 Oct. 1960 | 0904 | 1:25,000 | 0.5 ft. above MHW |
| 61 W 956 | 24 Sept. 1961 | 1129 | 1:15,000 | 0.5 ft. above MLLW |
| 60 W (C) 3042 thru 3045 | 17 Oct. 1960 | 0819 | 1:10,000 | 0.4 ft. above MLLW |
| 60 W (C) 3001 thru 3004 | 17 Oct. 1960 | 0759 | 1:10,000 | 0.4 ft. above MLLW |
| 60-W-(C) 3364 | 27 Oct. 1960 | 0848 | 1:10,000 | 0.5 ft. above MHW |

From predicted Tide Tables

TIDE (III)

Diurnal

| | | RATIO OF RANGES | MEAN RANGE | SPRING RANGE |
|---|------------------|------------------|-------------|--------------|
| REFERENCE STATION: | Honolulu, Hawaii | | 1.2 | 1.9 |
| SUBORDINATE STATION: | Makena, Hawaii | | 1.5 | 2.1 |
| SUBORDINATE STATION: | | | | |
| WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet-Atlantic Marine Center | | DATE: March 1966 | | |
| PROOF EDIT BY (IV): | | DATE: | | |
| NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): | 2 | RECOVERED: | IDENTIFIED: | |
| | | 2 | 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): | | 3 | | |

REMARKS:

COMPILATION RECORD

COMPLETION DATE

REMARKS

| | | |
|-------------------------------|---------------|------------|
| Shoreline furnished for hydro | Feb. 9, 1962 | superseded |
| Shoreline revised | March 9, 1962 | |
| Compilation completed | Aug. 1962 | |
| | | |
| | | |

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11928

Shoreline manuscript T-11928 is one of forty-nine similar maps in this project and covers a part of the coastline of Maui Island, Hawaii. This was a Kelsh Project in advance of hydrographic surveys in the area. The field operations preceding compilation included the recovery and identification of horizontal control and field inspection. The Kelsh compilation was at 1:5,000 scale from 1:25,000 scale photography obtained 11 October 1960 and 1:15,000 scale photography obtained 24 September 1961. A cronaflex positive showing shoreline, alongshore features and shoreline pass points was furnished for the preparation of the hydrographer's boat sheet. 1:5,000 scale ratio prints were subsequently furnished for the location of hydrographic signals and for field edit purposes. The compilation manuscript is a vinylite sheet 1 minute 52.5 seconds in latitude by 1 minute 52.5 seconds in longitude 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-11928

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-11928

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-11928

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

T-11928

48. Geographic Names List

Ahihi Bay
Maluaka Point
Fuu Olai

A handwritten signature in cursive script, likely of George S. ...
Geographic Names Section
6 February 1964

49. NOTES TO THE HYDROGRAPHER

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

| | | |
|------|----------------------------|-----------|
| 2801 | Church steeple | 60 W 2715 |
| 2802 | Corner of porch | 60 W 2716 |
| 2803 | Offshore corner of pillbox | 60 W 2716 |

PHOTOGRAMMETRIC OFFICE REVIEW
T. 11928

| | | | | | |
|---|---|---------------------------|---|--|-------------------------------|
| 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 NONE | |
| | 16. AIDS TO NAVIGATION NONE | | 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 NONE | |
| | 30. OTHER CULTURAL FEATURES DMB | | | | |
| BOUNDARIES | 31. BOUNDARY LINES NONE | | 32. PUBLIC LAND LINES NONE | | |
| | 33. GEOGRAPHIC NAMES DMB | | | 34. JUNCTIONS DMB | |
| MISCELLANEOUS | 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: D.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 For: J.D. McEvoy <i>Joseph Steinberg</i> | | | SIGNATURE OF SUPERVISOR <i>Joseph Steinberg</i> | | |

FIELD EDIT REPORT
T-11928

Please refer to the Field Edit Report for Maui Island
(Strips 1 through 7) which is bound with the Descriptive
Report for T-11894.

REVIEW REPORT T-11928
SHORELINE

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with a copy of Registered Survey No. 2679, 1:10,000 scale made in 1904-1905 and approved May 10, 1905.

Shoreline survey T-11928 supersedes this prior survey and should be used for all future nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

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

The shoreline of the two maps are in good agreement considering the difference in scales.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8681, PF-10-2-62. The rocks, coral reefs and foul area shown on the map manuscript do not appear on the boat sheet. See comparison print.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 4130, 1:80,000 scale, 4th edition revised August 31, 1964. Because of the differences in scales only a visual comparison was made.

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, CAPT., USESSA
Director, Atlantic Marine Center

Approved by:

L. F. Woodcock
Chief, Photogrammetry Division

Charles Leman
Chief, Cartographic Branch
Photogrammetric
A.M.S.

Chief, Chart Division

Chief, Operations Division

