

11923

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-11923

LOCALITY

State Hawaii

General locality Maui Island

Locality Laie - Kaipukeihana

1960-1962

CHIEF OF PARTY

H.J. Seaborg, Honolulu Dist. Office

Wm. E. Randall, Baltimore Dist. Office

LIBRARY & ARCHIVES

DATE 1967

USCOMM-DC 5087

11923

5/11/60 - 1962

DESCRIPTIVE REPORT - DATA RECORD

T-11923

| | | |
|---|--------------------------------|---|
| PROJECT NO. (II): PH-6012 | | |
| FIELD OFFICE (II): Honolulu District Office | | CHIEF OF PARTY H.J. Seaborg |
| PHOTOGRAMMETRIC OFFICE (III): Baltimore District Office | | OFFICER-IN-CHARGE William 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): WAIAKOA, 1950 | | |
| LAT.: 20° 46' 44.205" | LONG.: 156° 27' 09.228" | <input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED |
| PLANE COORDINATES (IV): = 161,892.72 FT. x = 573,138.51 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: Feb. 1961 |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Mean high water located by Kelsh Plotter from photography of 11 October 1960 and revised from photography of 24 September 1961. | | |
| PROJECTION AND GRIDS RULED BY (IV): RAC | | DATE 18 Nov. 1960 |
| PROJECTION AND GRIDS CHECKED BY (IV): JDC | | DATE 22 Nov. 1960 |
| CONTROL PLOTTED BY (III): D. M. Brant | | DATE 17 Mar. 1961 |
| CONTROL CHECKED BY (III): E. L. Rolle | | DATE 17 Mar. 1961 |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Aerotriangulation - Washington Office | | DATE Jan. 1961 |
| STEREOSCOPIC INSTRUMENT COMPILATION (III): E. L. Rolle | PLANIMETRY E. L. Rolle | DATE Feb. 1962 |
| | CONTOURS Inapplicable | DATE |
| MANUSCRIPT DELINEATED BY (III): E. L. Rolle | | DATE Apr. 1962 |
| SCRIBING BY (III): C. A. Lipscomb | | DATE Sept. 1963 |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. M. Brant | | DATE Sept. 1963 |
| REMARKS: FIELD EDIT - 1962 | | |

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 2709 & 2710 | 11 Oct. 1960 | 0901 | 1:25,000 | 0.5 ft. above MHW |
| 61 W 946 thru 948 | 24 Sept. 1961 | 1128 | 1:15,000 | 0.5 ft. above MLLW |

From Predicted Tide Tables

TIDE (III)

Diurnal

| | RATIO OF RANGES | MEAN RANGE | SPRING RANGE |
|---|-----------------|------------|-------------------------|
| REFERENCE STATION: Honolulu, Hawaii | | 1.2 | 1.9 |
| SUBORDINATE STATION: Kihei, Maalaea Bay | | 1.6 | 2.3 |
| SUBORDINATE STATION: | | | |

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet-Atlantic Marine Center

DATE:
Feb. 1966

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

3

RECOVERED:

3

IDENTIFIED:

2

NUMBER OF BM(S) SEARCHED FOR (II):

0

RECOVERED:

0

IDENTIFIED:

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

4

REMARKS:

COMPILATION RECORD

COMPLETION DATE

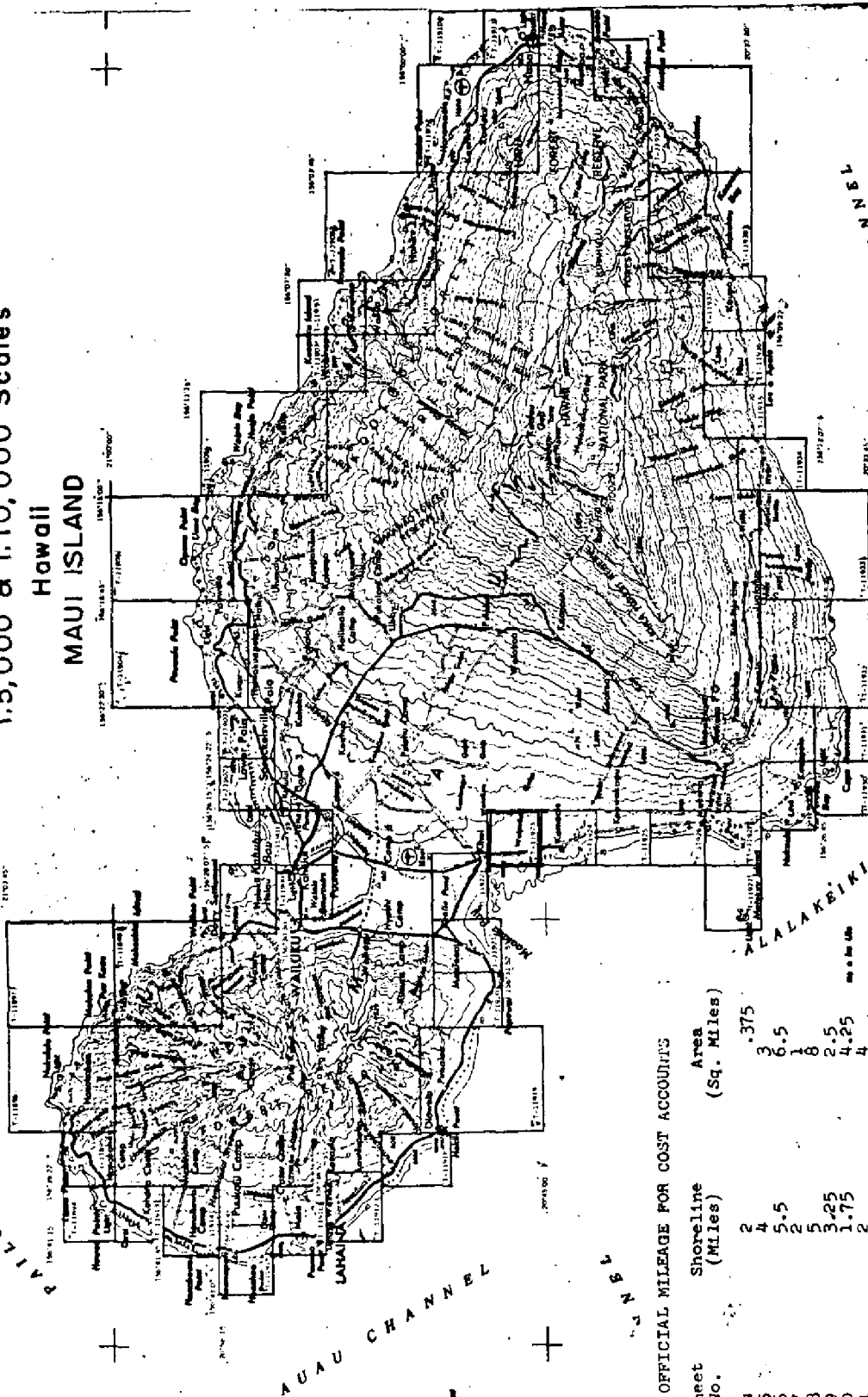
REMARKS

| | | |
|-------------------------------|-------------|------------|
| Shoreline furnished for hydro | Feb. 1962 | superseded |
| Final Compilation Completed | August 1963 | |
| | | |
| | | |
| | | |

Planometric 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 | 2 | 1 |
| T-11898 | 5 | 8 |
| T-11899 | 3.25 | 2.5 |
| T-11900 | 1.75 | 4.25 |
| T-11901 | 2 | 4 |
| T-11902 | 2.5 | 1 |
| T-11903 | 2 | 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 | 2 |
| T-11912 | 27 | 3 |
| T-11913 | 2.2 | 4.5 |
| T-11914 | 2.5 | 2.2 |
| T-11915 | 2.5 | 4 |
| T-11916 | 2.5 | 4 |
| T-11917 | 27 | 2.6 |
| T-11918 | 3 | 4 |

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 |
| T-11930 | 1.5 | .25 |

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 | 2.5 | 2 |

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11923

Shoreline map T-11923 (1:5,000 scale) is one of 49 similar maps in Project PH-6012. It covers a part of the shoreline of Maui Island, Hawaii, along the easterly shore of Maalaea Bay.

This was a stereoscopic instrument project in advance of hydrographic surveys to be made in the same area. The Stereo-planigraph was used for the bridging of horizontal control and to establish adequate pass points for the setting of models on the Kelsh Plotter.

Field operations preceding compilation included the recovery and identification of horizontal control, selection of hydrographic signals and field inspection.

The Kelsh compilation was at 1:5,000 scale from which a film positive showing shoreline, alongshore detail and photo-hydro signals was furnished for preparation of the boat sheet. Ratio photographs were provided for locating additional hydrographic signals.

The map is a vinylite sheet 2' 22.5" in latitude by 1' 52.5" in longitude. A cronar positive and a cronar negative are provided for record and registry.

FIELD INSPECTION REPORT

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

PHOTOGRAMMETRIC PLOT REPORT
T-11923

Please refer to the Photogrammetric Plot Report for the
~~W~~^estern part of Maui Island, bound with the Descriptive Report
for T-11894.

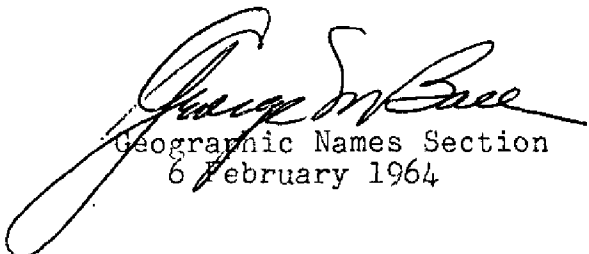
COMPILATION REPORT
T-11923

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

11.
T-11923

48. Geographic Names List

Kaipukaihina
Kalepolepo
Laie
Maalaea Bay


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.

| | | |
|------|------------------------------------|-----------|
| 2301 | Northwest corner of park pavillion | 60 W 2708 |
| 2302 | South gable, white roof house | 60 W 2710 |
| 2303 | Rag on bush | 60 W 2710 |
| 2304 | Stake at north side of path | 60 W 2710 |

| FORM 182 (8-51) | | PHOTOGRAMMETRIC OFFICE REVIEW | | U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY | |
|---|--|--|--|--|----------------------------------|
| 50 | | T- 11923 | | | |
| 1. PROJECTION AND DS 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 NONE | 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 NONE | | |
| | 30. OTHER CULTURAL FEATURES DMB | | | | |
| BOUNDARIES | 31. BOUNDARY LINES NONE | | 32. PUBLIC LAND LINES NONE | | |
| | | | | | |
| MISCEL- LANEOUS | 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 | | |
| | SIGNATURE OF REVIEWER <i>Joseph Steinberg</i> <i>For: D.M. Brent</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 <i>Joseph Steinberg</i> <i>For: E.L. Rollet</i> | | SIGNATURE OF SUPERVISOR <i>Joseph Steinberg</i> | | | |

FIELD EDIT REPORT
T-11923

Please refer to the Field Edit Report for Maui Island, Hawaii (strips 1 through 7) dated 17 August 1962 bound with the Descriptive Report for T-11894.

REVIEW REPORT T-11923
SHORELINE

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Planetable survey No. 2462, 1:10,000 scale, made in 1900 and approved February 1, 1901. The shallow and foul areas near latitude $20^{\circ} 45' 30''$ do not appear on the planetable survey.

This manuscript (T-11923) supersedes the planetable survey and should be used for all nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle Maalaea, Hawaii, 1:24,000 scale, edition of 1954. The small islets near latitudes $20^{\circ} 46' 00''$ and $20^{\circ} 46' 25''$ are not visible on any of the photography of the area.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet SU-5-4-61. The shoreline for the boat sheet was obtained directly from a cronaflex copy of the Advance Map Manuscript.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4104, 1:10,000 scale, 4th edition, dated June 29, 1964. The manuscript and the chart are in good agreement.

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. C. Bull
J. C. Bull, CAPT.
Atlantic Marine Center

Approved by:

L. F. Woodcock
Chief, Photogrammetry Division

Charles H. Hannon
Chief, Cartographic Branch
Photogrammetric 66 13

Chief, Chart Division

Chief, Operations Division

