### DESCRIPTIVE REPORT

**Type of Survey**
SHORELINE (Photogrammetric)

**Field No.**
T-11897

**Locality**

<table>
<thead>
<tr>
<th>State</th>
<th>General locality</th>
<th>Locality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAWAII</td>
<td>MAUI ISLAND</td>
<td>KAHAKULOA BAY</td>
</tr>
</tbody>
</table>

**Period**
1940 – 1962

**Chief of Party**
H. J. Seaborg - Honolulu District Office
Wm. E. Randall - Baltimore District Office

**Library & Archives**

**Date**
**DESCRIPTIVE REPORT - DATA RECORD**

**PROJECT NO.** 11897

**FIELD OFFICE:** Honolulu, Hawaii

**PHOTOGRAMMETRIC OFFICE:** Baltimore, Maryland

**CHIEF OF PARTY:** H. J. Seaborg

**OFFICER-IN-CHARGE:** W. E. Randall

**INSTRUCTIONS DATED:**
- 11 November 1960
- 28 November 1960
- 13 June 1961
- 16 January 1962

**METHOD OF COMPILATION:** Kelsh Plotter

**MANUSCRIPT SCALE:** 1:10,000

**STEREOSCOPIC PLOTTING INSTRUMENT SCALE:** 1:5,000 pantograph 1:10,000

**DATE RECEIVED IN WASHINGTON OFFICE:**

**DATE REPORTED TO NAUTICAL CHART BRANCH:**

**APPLIED TO CHART NO.:**

**DATE:***

**DATE REGISTERED (IV):***

**GEOGRAPHIC DATUM:** Old Hawaiian

**REFERENCE STATION:** KAHAKULOA (HGS) (HTS 1929), 1882

**LAT.:** 21° 00' 15.57"N

**LONG.:** 156° 32' 53.15"W

**STATE:** Hawaii

**ZONE:** 2

**PLAN COORDINATES (IV):**

**Y = 243,719.45'**

**X = 540,114.41'**

**VERTICAL DATUM:** Mean Sea Level, except as follows:
- Elevations shown as (2) refer to mean high water
- Elevations shown as (3) refer to sounding datum
  i.e., mean low water or mean lower low water

**ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (III) 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. Lajoye

DATE: March 1961

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

Mean high water line located by Kelsh Plotter from 1960 photography.

PROJECTION AND GRIDS RULED BY (IV):
R.A.C.

DATE: 9 Nov. 1960

PROJECTION AND GRIDS CHECKED BY (IV):
J.D.C.

DATE: 22 Nov. 1960

CONTROL PLOTTED BY (III):
H. P. Eichert

DATE: 7 Feb. 1961

CONTROL CHECKED BY (III):
D. M. Brant

DATE: 7 Feb. 1961

RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):
Washington Office, Aerotriangulation

DATE: 1960

STEREOSCOPIC INSTRUMENT COMPILATION (III) PLANIMETRY
J. D. Mc Evoy

DATE: 6-7-61

CONTOURS
J. D. Mc Evoy

DATE: Inapplicable

MANUSCRIPT DELINEATED BY (III):
J. D. Mc Evoy

DATE: 7-61

SCRIBING BY (III):

DATE:

PHOTOGAMMETRIC OFFICE REVIEW BY (III):

D. M. Brant

DATE: 7-61

REMARKS:

* FIELD EDIT 1962 J.C. Lajoye
**PHOTOGRAPHS (III)**

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td></td>
<td>10 OCT. 1960</td>
<td>0925</td>
<td>0.25,000</td>
<td>Fr. 0.4 above MHW</td>
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</table>

No photograph centers fall within the limits of this survey.

**TIDE (III)**

<table>
<thead>
<tr>
<th>REFERENCE STATION:</th>
<th>Honolulu, Hawaii</th>
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<tbody>
<tr>
<td>SUBORDINATE STATION:</td>
<td>Kahului, Hawaii</td>
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<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<tbody>
<tr>
<td>1.2</td>
<td>1.9</td>
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</tr>
<tr>
<td>1.4</td>
<td>2.2</td>
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**WASHINGTON OFFICE REVIEW BY (IV):**

Leo F. Beugnet-Atlantic Marine Center

**DATE:** April 14, 1966

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):** 1

**RECOVERED:** 1

**IDENTIFIED:** 0

**NUMBER OF BM(S) SEARCHED FOR (III):** None

**RECOVERED:** None

**IDENTIFIED:** None

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):** None

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):** None

**REMARKS:**
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Shoreline furnished for hydro</td>
<td>July 1961</td>
<td>Superseded</td>
</tr>
<tr>
<td>Final compilation completed</td>
<td>Sept. 1963</td>
<td></td>
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</table>
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT t-11897

Map manuscript T-11897 compiled at 1:10,000 scale is one of forty-nine similar maps in this project. The maps were compiled primarily to obtain new shoreline and alongshore detail for nautical charts and to provide data for locating hydrographic signals by photogrammetric methods.

Field work preceding compilation included recovery and identification of horizontal control and field inspection. No photo-hydro stations were pre-selected.

Compilation was by Kelsh plotter method using the panchromatic photography obtained October 10th, 1960 and the control established by stereoplanigraph. A cronaflex copy of the manuscript was furnished for preparation of the boat sheet along with ratio prints for locating hydrographic signals by photogrammetric methods. The manuscript is a vinylite sheet from which the smooth sheet was drafted and reproduced. One cronar positive and one cronar negative are provided for record and registry.
FIELD INSPECTION REPORT
T-11897

Please refer to the Field Inspection Report for Maui Island which is bound with the Descriptive Report for T-11894.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tbody>
<tr>
<td>KAHAKULOA</td>
<td>P.C. 16</td>
<td>OLD</td>
<td>243, 719, 15</td>
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<td></td>
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<tr>
<td></td>
<td>HAWAIIAN 1322</td>
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<td></td>
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</table>

1 FT. = 0.3048006 METER

COMPUTED BY: J.C.R.  11 July 1962  CHECKED BY: Brant  13 July 1962
PHOTOGRAMMETRIC PLOT REPORT
T-11697

Please refer to the Photogrammetric Plot Report for the Western half of Maui Island which is bound with the Descriptive Report for T-11694.
COMPILATION REPORT T-11897

For additional data pertaining to this manuscript 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, aids to navigation, or aeronautical aids within the limits of this survey.

38. CONTROL FOR FUTURE SURVEYS

No topographic or photo-hydro stations were established.

39. JUNCTIONS

Satisfactory junctions were made with T-11896 on the east and with T-11898 on the south. The Pacific Ocean is on the north and west.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. quadrangle Kahakoloa, Hawaii, 1:24,000 scale, edition of 1955.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with the following charts:

4115 - scale 1:250,000 - 12th edition, August 17, 1964
4124 - scale 1:30,000 - 3rd edition, May 3, 1965
4130 - scale 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

Capt. C&GS
Norfolk Regional Officer

Approved:

J. Bull
Capt. C&GS
Norfolk Regional Officer
GEOGRAPHIC NAMES
Ph 6012

T-11897

Awalau Gulch
Kahakuloa
Kahakuloa Bay
Kahakuloa Head
Kahakuloa Stream
Pacific Ocean
Puu Kahulianapa
Puu Koa'e
Waihali Gulch

Approved:
A. J. Wright
1-20-66

All Names Approved
by Office of Geography
49. NOTES TO THE HYDROGRAPHER

There are no notes to the hydrographer to accompany this manuscript.
<table>
<thead>
<tr>
<th>Projecton and Grids</th>
<th>Title</th>
<th>Manuscript Numbers</th>
<th>Manuscript Size</th>
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<tbody>
<tr>
<td>DMB</td>
<td>DMB</td>
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**Control Stations**

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<th>Type</th>
<th>Accuracy</th>
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<tr>
<td>Horizontal Control Stations</td>
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<tr>
<td>Photographic Stations</td>
<td>Hydrographic</td>
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<tr>
<td>Bench Marks</td>
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<tr>
<td>Plotting of Sextant Fixes</td>
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**Alongshore Areas**

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<tr>
<th>Area</th>
<th>Features</th>
<th>DMB</th>
<th>DMB</th>
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<tbody>
<tr>
<td>Shoreline</td>
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</tr>
<tr>
<td>Low-Water Line</td>
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<tr>
<td>Rocks, Shoals, etc.</td>
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<tr>
<td>Bridges</td>
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<td>None</td>
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</tr>
<tr>
<td>Aids to Navigation</td>
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<td>DMB</td>
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<tr>
<td>Landmarks</td>
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<td>DMB</td>
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<tr>
<td>Other Alongshore Physical Features</td>
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<td>DMB</td>
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<tr>
<td>Other Alongshore Cultural Features</td>
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**Physical Features**

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<tr>
<th>Feature</th>
<th>Cartography</th>
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<tbody>
<tr>
<td>Water Features</td>
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<td>Planetary Contours</td>
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<td>Contours in General</td>
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<td>Other Physical Features</td>
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**Cultural Features**

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<td>Roads</td>
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<td>Buildings</td>
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<td>Railroads</td>
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<tr>
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**Boundaries**

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<tbody>
<tr>
<td>Boundary Lines</td>
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<tr>
<td>Public Land Lines</td>
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</table>

**Miscellaneous**

<table>
<thead>
<tr>
<th>Feature</th>
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<tbody>
<tr>
<td>Geographic Names</td>
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<td>Legibility of Manuscript</td>
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<td>Discrepancy Overlay</td>
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<td>Descriptive Report</td>
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<td>Field Inspection Photographs</td>
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<tr>
<td>Forms</td>
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<td>DMB</td>
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</tr>
</tbody>
</table>

**Field Completion Additions and Corrections**

Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in marks on reverse side.

Signature of Compiler:

Signature of Reviewer:

Signature of Supervisor:

Signature of Reviewer:

Use reverse side for remarks.
FIELD EDIT REPORT
T-11897

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

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with copies of Registered Planstable survey No. 3269, 1:20,000 scale, made in 1912 and approved March 30, 1911 and No. 3270, 1:20,000 scale, made in 1911-1912 and approved March 30, 1911.

Map manuscript T-11897 supersedes the prior planstable surveys and should be used for future nautical chart construction in the area mapped.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle Kahakuloa, Hawaii 1:24,000 scale, edition of 1955. Two rocks shown on the quadrangle near latitude 21° 00' 34" longitude 156° 33' 27" are not visible on photography of the area.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8879 (PF-10-1-61). The shoreline north of latitude 21° 00' was evidently taken from a cronaflex copy of the map manuscript. A rock at latitude 21° 00' 13" longitude 156° 33' 27" was added to the manuscript during final review and does not appear on the boat sheet.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 1:124,000 scale, 3rd edition, May 3, 1965. The chart and manuscript are in fairly good agreement. Two small rocks at latitude 21° 00' 03" longitude 156° 32' 39" do not appear on photography of the area.

* A "Notes to Verifier" page concerning this information has been forwarded to the Hydro Branch.
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with project instructions and meets that National Standards of map accuracy.

Reviewed by:

Leo F. Beugnet

Approved by:

J. Bull
Director, Atlantic Marine Center

Approved by:

Chief, Cartographic Branch

Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division
NOTES TO VERIFIER
H-8879
(Comparison with T-11897)

H-8879 (PF-10-4-61) was compared with T-11897 during final review of the shoreline survey. One discrepancy was noted in the final review report: a rock located at latitude 21°00.75' and longitude 156°33.45' was added to T-11897 subsequent to forwarding the map for hydro support.
**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.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4124</td>
<td>11/30/67</td>
<td>P. A. McKid</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. add 1 rock.</td>
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<tr>
<td>4130</td>
<td>11/31/67</td>
<td>P. A. McKid</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. light ait 4124 Aug 16</td>
</tr>
<tr>
<td>19342</td>
<td>9/20/74</td>
<td>O. Stolpebkel</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. 19</td>
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<tr>
<td>(4124)</td>
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<td></td>
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**FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11897**