Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (Photogrammetric)
Field No. T-11896
Office No. T-11896

LOCALITY

State HAWAII
General locality MAUI ISLAND
Locality HONOKOHU BAY - MOKOLEA POINT

1960 - 1962

CHIEF OF PARTY
H. J. Seaborg - Honolulu District Office
Wm. E. Randall - Baltimore District Office

LIBRARY & ARCHIVES

DATE

USCG-DC 5087
DESCRIPTIVE REPORT - DATA RECORD

T - 11896

PROJECT NO. (III):
PH-6012
(21034)

FIELD OFFICE (III):
Honolulu, Hawaii

CHIEF OF PARTY
H. J. Seaborg

PHOTOGRAMMETRIC OFFICE (III):
Baltimore, Maryland

OFFICER-IN-CHARGE
W. E. Randall

INSTRUCTIONS DATED (III):
14 November 1960
28 November 1960
13 June 1961
16 January 1962

METHOD OF COMPIlATION (III):
Kelsh Plotter

MANUSCRIPT SCALE (III):
1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:5,000 Pantograph 1:10,000

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:
Elevations shown as (23) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water or mean lower low water

REFERENCE STATION (III):
HONOKAKAU 2, 1950

LAT: 21° 01' 55.982"
LONG: 156° 35' 59.558"

ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):

Y = 253,839.70'
X = 522,777.23'

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**

<table>
<thead>
<tr>
<th>FIELD INSPECTION BY (III):</th>
<th>DATE:</th>
</tr>
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<tbody>
<tr>
<td>J. C. Lajoye</td>
<td>March 1961</td>
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</table>

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

Kelsh Plotter from 1960 Photography and field inspection notes.

<table>
<thead>
<tr>
<th>PROJECTION AND GRIDS RULED BY (IV):</th>
<th>DATE</th>
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<tbody>
<tr>
<td>R.A.C.</td>
<td>9 Nov. 1960</td>
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<table>
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<th>PROJECTION AND GRIDS CHECKED BY (IV):</th>
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<td>J.D.C.</td>
<td>22 Nov. 1960</td>
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<th>CONTROL PLOTTED BY (III):</th>
<th>DATE</th>
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<tr>
<td>D. M. Brant</td>
<td>6 Feb. 1961</td>
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<table>
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<th>CONTROL CHECKED BY (III):</th>
<th>DATE</th>
</tr>
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<tbody>
<tr>
<td>H. P. Eichert</td>
<td>6 Feb. 1961</td>
</tr>
</tbody>
</table>

**RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**

Washington Office

**STEREOGRAPHIC INSTRUMENT COMPILED BY (III):**

- **PLANIMETRY**
  - J. D. McEvoy
  - 6/61

- **CONTOURS**
  - J. D. McEvoy
  - Inapplicable

<table>
<thead>
<tr>
<th>MANUSCRIPT DELINEATED BY (III):</th>
<th>DATE</th>
</tr>
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<tbody>
<tr>
<td>Donald M. Brant</td>
<td>7/61</td>
</tr>
</tbody>
</table>

**SCRIBING BY (III):**

**PHOTOMETRIC OFFICE REVIEW BY (III):**

E. L. Williams

7/61

**REMARKS:**


**DESCRIPTIVE REPORT - DATA RECORD**

**CAMERA (KIND OR SOURCE) (III):**

"M" Camera

**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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<tbody>
<tr>
<td>60 W 2610 thru 2612</td>
<td>10 Oct. 1960</td>
<td>0916</td>
<td>1:25,000</td>
<td>0.5 above MHWS</td>
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<tr>
<td>60 W 2617 thru 2619</td>
<td>10 Oct. 1960</td>
<td>0925</td>
<td>1:25,000</td>
<td>0.4 above MHWS</td>
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Stage of tide computed from Predicted Tide Tables.

**TIDE (III):**

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<tr>
<th>REFERENCE STATION: Honolulu, Hawaii</th>
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<tbody>
<tr>
<td>SUBORDINATE STATION: Lahaina, Hawaii</td>
</tr>
<tr>
<td>------------------------------</td>
</tr>
<tr>
<td>SUBORDINATE STATION: Kahului, Hawaii</td>
</tr>
<tr>
<td>------------------------------</td>
</tr>
</tbody>
</table>

**WASHINGTON OFFICE REVIEW BY (IV):**

Leo F. Beugnet, Norfolk Regional Office

**PROOF EDIT BY (IV):**

Date: APR, 1966

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (HI):** 3

**RECOVERED:** 2

**IDENTIFIED:** 2

**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):** 5

**REMARKS:**

Field Edit 1962 J.C. Lajoye

No Field Edit Sheet Submitted
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Alongshore area for hydro</td>
<td>Aug. 1961</td>
<td>Superseded</td>
</tr>
<tr>
<td>Smooth drafting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compilation Completed</td>
<td>Sept. 1963</td>
<td></td>
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</tbody>
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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11896

Map manuscript T-11896, 1:10,000 scale, is one of forty-nine similar maps in this project. The primary purpose of the project was to provide new shoreline for nautical charts and to provide data for the photogrammetric location of hydrographic signals for hydrographic surveys to be made in the area.

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

The manuscript was compiled by Kelsh methods using control established by aerotriangulation and the panchromatic photography obtained 10 October 1960. A cronaflex copy of the manuscript was furnished to provide the shoreline and alongshore features for the boat sheet. 1:10,000 scale ratio prints, with shoreline pass points thereon, were provided for the location of hydrographic signals and for field edit purposes.

The manuscript was compiled and smooth drafted on vinlylite. One cronar positive and one cronar negative are provided for record and registry.
2. AREAL FIELD INSPECTION:

The area covered by this report encompasses the whole of the Island of Maui, second largest of the Hawaiian Islands. It is formed by two mountains with a fertile valley devoted to the cultivation of sugar cane and pineapple. The island is shaped like a Shinto priest in prayer with the head at the western end formed by the West Maui range of mountains and the body at the eastern end formed by Mt. Haleakala which rises over 10,000 feet above sea level.

The climate varies from the tropical rain forest at the eastern end of the island near Hana, to the barren lava fields along the south slopes of Mt. Haleakala. Rain seldom falls on the south coasts and thus the disintegration of the lava is a slow process.

Shoreline conditions vary from the stark lava cliffs around Mt. Haleakala and on the east side of the West Maui Range, to the sandy beaches along the valley between the mountains and on the western or lee shores of the island.

The area is cooled by trade winds from the north and east accentuated by the Venturi effect caused by the valley between the mountains and, in the exposed areas, waves beat continuously on the rocky cliffs. On the western shores around Lahaina and on Mā'alaea Bay, only a "kona" or southerly storm infrequently disturbs this peaceful area.

Kahului is the principal port on the island. It is protected by a breakwater and serves as a port of call for large ocean going
vessels which bring in freight and load out processed pineapple and raw sugar. It is also the port of call for tug and barge service from Honolulu.

Photography was adequate for the identification of control and for field and shoreline inspection. In some areas which were cloud covered in the 1960 photography, 1962 refight photographs which were furnished to the hydrographic party were secured and the shoreline and interior inspected and inked on those photos.

Shoreline inspection along the lava fields at the south side of the east portion of the island is somewhat sketchy. Areas that were impassable due to broken lava, large crevases, or lack of trails, were left to be inspected from a launch when one becomes available. The shoreline may be delineated at the edge of the lava but additional hydrographic signal sites must be selected from the seaward side.

Shoreline inspection in the beach areas was accomplished by walking along the high waterline, and delineating the waterline supported by measurements from prominent objects. Where it was possible, as in the case of low bluffs, the shoreline was inspected from the top of the bank. In the areas of high rocky bluffs and cliffs, it was not possible to get anywhere near the shoreline and inspection was carried out by leaning over the precipitous bluffs, which descend almost vertically to the high water line. In every area except the sandy beaches mentioned, and even in the lava fields at the south portion of the island, the high waterline lies at the base of bluff and is confused by along shore rocks and breaking surf, and off-shore reefs.
3. HORIZONTAL CONTROL

(a) The following marked or recoverable intersection stations were located by triangulation as nautical aids, aeronautical aids, or as additional photogrammetric control:

Kahului Harbor Entrance East Breakwater Light  d.n.m.
Kahului Harbor Entrance West Breakwater Light  d.n.m.
Kahului Harbor Entrance Range, Front Light.     d.n.m.
Kahului Harbor Entrance Range, Rear Light.     d.n.m.
Kahului Airport Control Tower, Beacon          d.n.m.
V O R OGG                                       d.n.m.
Lahaina Lighthouse                             d.n.m.
E (USE)                                         d.m.
EAST POINT                                      d.m.
WEST POINT                                      d.m.

The following temporary stations were established for supplemental control of aerial photographs and were not marked:

Apple (temp)                                    State (temp)
Camp (temp)                                     Grove (temp)
Ditch (temp)                                    Pau (temp)
Malay (temp)                                    Power (temp)

Pau and Power were established to determine a position for Lahaina Lighthouse.

The following hydrographic signals were located by theodolite cuts either to establish signals in obscured areas or to provide a check on signal sites established by photogrammetric methods:

Hydro Sig. 2301  Hydro Sig. 2303  Hydro Sig. 2305
POL              CAN              MAY
RED Hydro Sig. 2401 MAY
PAR ABE VON
BEG CAR NAHRA Z
DAN FAR EVE
JOE HAM GOO

(b) There were no datum adjustments made by the field party.
(c) All control was either established by the Coast and Geodetic
Survey or was tied to Coast Survey control by previous surveys.
(d) All stations required by the project diagram were recovered
and identified except where specific permission was received from
the Washington Office to substitute one station for another.
(e) Control adjacent to the shoreline and that within the area
of photogrammetric coverage was searched for and Form 526 has been
submitted for all stations. Stations outside the area covered by
the photographs were not searched for due to heavy brush and under-
grown in the interior of the island.
(f) Control station identification cards were submitted for all
stations required by the project diagrams.

4. WAIKAA KUKUL

Tidal bench marks at Hanuolu, Leaina, Mala Sharf, Aihei, and
Makena were searched for and recovered.

Tidal bench marks at Wana were searched for but due to changes
in the area, they were not recovered.

No vertical points were required for stereoscopic mapping.
5. CONTOURS AND DRAINAGE

The area below the 15 foot contour on sheet T-11900 was contoured as required by the project instructions. The area was contoured using the photograph, a Wild T-2, and topo rod. Elevations for the contouring were established by closed loops from the tidal bench marks at Kahului Harbor.

Drainage is all intermittent. Natural drainage patterns have been interrupted by various drainage canals, reservoirs, and catch basins to supplement the irrigation systems of the various plantations. Only overflow water runs occasionally in the natural drainage gulches.

6. WOODLAND COVER

The woodland cover over the major part of the island is low brush although in the dry areas, koawe trees are clumped along the shore. Monkey pod, an ornamental tree, line the roads occasionally.

In the area covered by sheet T-11906 and easterly to sheet T-11939, which is in the rainy portion of the island, trees grow profusely. Types are eucalyptus, kukui, koa, mango, coconut and kamame with a heavy tropical undergrowth of guava and other brush.

7. SHORELINE AND ALONGSHORE FEATURES

(a) The high waterline was delineated on the photographs where it was possible to visit it. In areas of high bluff, inspection was done by viewing the area from the top of bluff. As in most cliff areas, there are many along shore rocks and high surf.

(b) The low waterline was not inspected
(c) The foreshore in the bluff areas is confused due to many along shore rocks. The continuous surf along the north, east and south sides of the islands served to confuse the high waterline on the photographs. In the sandy areas of the western and northern shore, the beach is protected by a coral reef which was found by the hydrographer, and which is visible on the photograph. In the Kihei area, offshore rock piles, the remains of old fish pond walls, are visible on the photographs. Offshore rocky reefs are found in some areas and, where seen, were noted on the field photographs.

(d) Bluffs and cliffs form the largest portion of the shoreline, although Maui is represented as having more beach area than any other of the Hawaiian Islands. From a few miles north of Lahului to Honolua Bay the shore is composed of high cliffs and low rocky bluffs. From Honolua Bay, through Lahaina and slightly south of Olowalu the shore is low with sandy beaches between rocky headlands. From the beginning of the cliffs at the south end of the West Maui Range to Mc Gregor Point, the shore is again rocky and precipitous. At Maalaea, and continuing south past Makena to about a mile south of Puu Olai, the shore is protected and sandy with a few rocky projections which act as groins to hold the sand.

From the recent lava flow south of Puu Olai and continuing south and east toward Hana, the shoreline is rocky with bluffs ranging from 10 to 150 feet. In the area near Kaupo, Kipahulu, and Puuiki High vertical bluffs predominate. The only sand beach in the entire area is located several miles southeast of the village of Hana.
From Hana west to Kuau, or into sheet T-11903 the vertical cliffs range from 50 to 200 feet in height and there are no beach areas and no place to approach the high waterline from the beach side except at Keanae or Waihiku except by descending the vertical bluffs by ropes.

(e) Kahului Harbor, as mentioned in the Areal Description, is the principal and only commercial port in the island. It has recently been dredged, is well jettied and has wharfage and facilities for ocean going vessels.

Hana Harbor is partially protected by natural rock projections but is open to some trade directions. It was used as a step for interisland steamer traffic, and prior to World War 2, when the sugar plantation at Hana was under cultivation, cargo was loaded out of this port. Since the discontinuing of steamer traffic between the islands, only an occasional fuel barge or fishing boat uses the large concrete pier located here.

Mala Wharf, located a few miles north of Lahaina, was used to load sugar and pineapple during the days of steamer traffic but the large concrete wharf is in poor repair and has been closed by the Board of Harbor Commissioners.

Lahaina, once the seat of the Hawaiian kings, and the oldest town in the island, is the site of a protected small boat harbor. Fuel, food, and housing are available here.

Maalaea is the site of a small boat harbor used mainly by fishing boats. It is well jettied and fuel and supplies are available.

In the olden days, when steamers made the rounds of the island
and water transportation was at its height, there were other places where cargo was unloaded by boom and where whaleboat landings were made. Principal among these were Nuu Landing, Kaupo, and Nahiku. These have now been abandoned and only the remains of the old concrete foundations and the old mooring bolts remain.

(f) There are no overhead or submarine cables in the area covered by the project.

(g) There are no other shoreline structures.

8. OFFSHORE FEATURES

No offshore rocks were actually visited by the photogrammetric party. It was noted on the field photographs that the hydrographic party was asked to determine the heights of offshore rocks. Where heights were indicated on the photographs, they were estimated from shore.

9. LANDMARKS AND AIDS.

Landmarks, nautical and aeronautical aids in Strips 1 to 7 were listed on Form 567 and forwarded with the field inspection photos. Other landmarks should be reported by the hydrographic party.

10. BOUNDARIES, MONUMENTS and LINES.

Investigation of boundaries, monuments and lines were not included in the instructions for the project.

11. OTHER CONTROL

No recoverable topographic stations were established. Where hydrographic or photogrammetric control by geodetic methods was required, only temporarily marked stations were used.

In areas which were inaccessible to the field party, hydro signal sites were not selected. It was requested that the hydrographic
party make a launch available to the photogrammetrist for the inspection of shoreline and the selection of hydro signal sites in these areas.

12. OTHER INTERIOR FEATURES

Roads within the area adjacent to the shoreline were classified as df1, ddl and sdl. Class 1 structures were not noted. Class 2 structures, churches and public buildings were noted.

The principal airport, Kahului Airport, is located about 3 miles east of Kahului Harbor. There is a paved airstrip at Hana used by D C 3 and small private aircraft. A small dirt strip is located a Kaanapali, about 6 miles north of Lahaina and is used by small private aircraft. The abandoned Naval Airstrip at Puu Mene is not used.

There are no bridges or cables over navigable waters. No trace was found of the shore ends of any submarine cables.

13. GEOGRAPHIC NAMES

No geographic names investigation was required by the project instructions.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

There were no special reports, or supplemental data.

Respectfully submitted

John C. Lajooy

8 September 1962
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>LONGITUDE OR x-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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<tr>
<td>HAUNAKO, 1950</td>
<td>P.C. 16</td>
<td>Old Hawaiian</td>
<td>244.590.59</td>
<td>533.305.10</td>
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<td>HONOKUAH2, 1950</td>
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<td>&quot;</td>
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<td>525.025.36</td>
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<td>NAKALELE POINT LIGHT, 1950</td>
<td>P.C. 20</td>
<td>&quot;</td>
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<td>253.866.21</td>
<td>525.025.36</td>
<td>253.866.21</td>
<td>525.025.36</td>
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</table>

1 FT. = 0.3048006 METER

COMPUTED BY: J.C.R. DATE: 11 July 1962
CHECKED BY: Brant DATE: 13 July 1962
PHOTOGRAMMETRIC PLOT REPORT
T-11896

Please refer to the Photogrammetric Plot Report for the western half of Maui Island which is bound with the Descriptive Report for T-11894.
31. **DELINEATION**

Planimetry was by Kelsh Instrument using the annotations on the field inspection photographs.

32. **CONTROL**

The supplemental control, established by Aerotriangulation, was adequate in placement and density for control of the manuscript.

33. **SUPPLEMENTAL DATA**

No supplemental surveys were used to delineate the manuscript although the drainage pattern was checked against U.S.G.S. quadrangles in the area.

34. **CONTOURS AND DRAINAGE**

Contours are inapplicable.

Drainage was delineated by the Kelsh operator.

35. **SHORELINE AND ALONGSHORE DETAILS**

The mean high-water line was delineated by the Kelsh operator using the field inspection photographs.

36. **OFFSHORE DETAILS**

No offshore details were noted or delineated during compilation.

37. **LANDMARKS AND AIDS**

There are no landmarks within the limits of compilation. Form 567 has been submitted for the aid to navigation on this manuscript.

38. **CONTROL FOR FUTURE SURVEYS**

No topographic stations were established. Five temporary photo-hydro stations were established for control of hydrography.
39. JUNCTIONS

Satisfactory junctions were made with T-11895 on the east and with T-11898 on the west. There is no contemporary survey on the south; the Pacific Ocean is on the north.

40. HORIZONTAL AND VERTICAL ACCURACY

Please refer to the Photogrammetric Plot Report bound with T-11894.

46. COMPARISON WITH EXISTING SURVEYS

Comparison was made with U.S.G.S. quadrangles, Honolua and Kahakuloa, 1:24,000 scales, editions of 1956 and 1955 respectively.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart 4116, 1:250,000 scale, 12th edition, August 17, 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
Capt. C&GS
Norfolk Regional Officer
GEOGRAPHIC NAMES
Ph-6012
T-11896

Alaeloa Point
* Alapapa Gulch
* Anakaluahine Gulch
* Fleming Beach
* Haukoe Point
* Hawea Point
* Honanana Gulch
* Honokeana Bay
* Honokohau
* Honokohau Bay
* Honokohau Stream
* Honolua
* Honolua Bay
* Honolua Stream
* Kaea Point
* Kaeleku Point
* Kahana
* Kahana Point
* Kahana Stream
* Kahanakai Gulch
* Kahauliku Gulch
* Kaia Point
* Kaopala
* Kaopala Gulch
* Kapalua
* Kanounou Point
* Kaukinik Ridge
* Keawalu
* Lipoa Point
* Mahinanui
* Makaluapuna Point

Makuleia Bay
* Maluhia Camp
* Mokolea Point
* Mokupeua Gulch
* Nakalele Point
* Namalu Bay
* Napili Bay
* Owaluhi Gulch
* Pacific Ocean
* Papanalahaoa Point
* Papau
* Papau Gulch
* Poelua
* Poelua Bay
* Poelua Gulch
* Pohakupule Gulch
* Punaha Gulch
* Punalau Point
* Puu Haunake
* Waikaeakua Gulch

** Puu Kaeo
** Papanahoa Gulch

* Names appear on this manuscript
† Names underlined & approved on original Geographic Names Sheet

All Names Approved
by Office of Geography

Approved:
A.F. White
1-20-66
49. **NOTES TO THE HYDROGRAPHER**

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

- 9601 West corner of house 60 W 2611
- 9602 Pinnacle rock 60 W 2611
- 9603 Northwest corner of shed 60 W 2611
- 9604 Lone rock 60 W 2611
- 9605 Whitewashed rock, center of target 60 W 2611
<table>
<thead>
<tr>
<th>Control Stations</th>
<th></th>
<th>Recoverable Horizontal Stations of Less than Third-Order Accuracy (Topographic Stations)</th>
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<tr>
<td>Photo Hydro Stations</td>
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<td>Bench Marks</td>
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<td>NONE</td>
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<td>Plotting of Sextant Fixes</td>
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<td>Photogrammetric Plot Report</td>
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<td>Shoreline</td>
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<tr>
<td>Low-Water Line</td>
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<td>NONE</td>
</tr>
<tr>
<td>Rocks, Shoals, etc.</td>
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<td>NONE</td>
</tr>
<tr>
<td>Bridges</td>
<td>DMB</td>
<td>NONE</td>
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<tr>
<td>Aids to Navigation</td>
<td>DMB</td>
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<tr>
<td>Landmarks</td>
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<tr>
<td>Other Alongshore Physical Features</td>
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<td>Other Alongshore Cultural Features</td>
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<td>Water Features</td>
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Signature of Reviewer: Joseph Steinberg
Signature of Supervisor: Joseph Steinberg

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: Joseph Steinberg

Signature of Supervisor: Joseph Steinberg

Use reverse side for remarks.
FIELD EDIT REPORT  
T-11896  

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.
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. 3269, 1:20,000 scale made in 1912 and approved March 30, 1914. The shape of the shoreline and the position of the offshore rocks on the two surveys are in good general agreement.

Map manuscript T-11896 supersedes the prior planetable survey and should be used for future nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle Honolulu, 1:24,000 scale, edition of 1955. The manuscript is in good agreement with the U.S.G.S. quadrangles except for the offshore rocks. Many of the rocks shown on the quadrangles are not visible on the photography of the area.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets PP-10-4-62A and PP-10-4-62B. The shoreline of the two surveys are not in agreement at Makaha Point, latitude 21° 02' 03" longitude 156° 35' 30".

Two rocks and a coral reef which do not appear on the boat sheet have been noted on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Charts 4130, 1:80,000 scale, 4th edition, August 31, 1964 and with Chart 4124, 1:30,000 scale, 3rd edition, May 3, 1965.

Several rocks shown on the charts are not visible on photography of the area. These have been noted on the comparison print.

* A "Notes to verifier" page concerning this information was furnished the Hydro Branch.
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Leo F. Beugnet
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
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by

\[ \text{For: Donald Grant} \]

\[ \text{Joseph Steinberg} \]

\[ \text{Chief of Party} \]

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<th>POSITION</th>
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<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
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<th>LONGITUDE*</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>ALREADY CHARTED</th>
<th>REMARKS OR DELETES</th>
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NOTES TO VERIFIER
PF-10-4-62A and PF-10-4-62B
(Comparison with T-11896)

T-11896 was field edited in conjunction with the building of hydro signals. No discrepancies requiring correction or addition to the survey were noted.

Copies of the subject boat sheet were compared with T-11896 during final review of the shoreline survey. Those differences between the surveys noted in the final review report follow: (1) the shoreline of the two surveys are not in agreement at Makalele, latitude 21°02.03' and longitude 156°35.30', (2) two rocks and a coral reef which do not appear on the boat sheet are located at latitude 21°01.96' and longitude 156°35.58'; latitude 21°01.7' and longitude 156°37.12'; latitude 21°01.7' and longitude 156°37.25', respectively.

The Photogrammetry Division should be notified in the event the above change and apparent deletions of shoreline survey information constitute a field edit.
# 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.

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