# DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>T-13312</td>
<td>1</td>
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</table>

<table>
<thead>
<tr>
<th>Job No.</th>
<th>Map Classification</th>
<th>Type of Survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH-6402</td>
<td>FINAL FIELD EDITED MAP</td>
<td>SHORELINE</td>
</tr>
</tbody>
</table>

## LOCALITY

<table>
<thead>
<tr>
<th>State</th>
<th>General Locality</th>
<th>Locality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAWAII</td>
<td>HAWAII ISLAND, WEST COAST</td>
<td>OKOE BAY</td>
</tr>
</tbody>
</table>

1963 TO 1973

**REGISTRY IN ARCHIVES**

**DATE**
## DESCRIPTIVE REPORT - DATA RECORD

### PHOTOGRAMMETRIC OFFICE
- Coastal Mapping Div.
- Atlantic Marine Center, Norfolk, VA

### OFFICER-IN-CHARGE
- R. Matsushige

### LAST PRECEDING MAP EDITION
- TYPE OF SURVEY: ORIGINAL
- MAP EDITION NO.: 1
- MAP CLASS: FINAL
- JOB: PH-6402

### INSTRUCTIONS DATED

<table>
<thead>
<tr>
<th>1. OFFICE</th>
<th>2. FIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compilation: Oct. 28, 1969</td>
<td>Control/Field Inspection: May 8, 1964</td>
</tr>
<tr>
<td>Amendment 1: Jan. 3, 1973</td>
<td></td>
</tr>
<tr>
<td>Memo: Sept. 1, 1978</td>
<td></td>
</tr>
</tbody>
</table>

### DATUMS

1. **HORIZONTAL:**
   - 1927 NORTH AMERICAN
   - OTHER (Specify): Old Hawaiian

2. **VERTICAL:**
   - MEAN HIGH-WATER
   - MEAN LOW-WATER
   - MEAN LOWER LOW-WATER
   - MEAN SEA LEVEL
   - OTHER (Specify): |

3. **MAP PROJECTION**
   - Polyconic

4. **GRID(S):**
   - STATE: Hawaii
   - ZONE: 1

### SCALE
- 1:5,000

### HISTORY OF OFFICE OPERATIONS

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. AEROTRIANGULATION</td>
<td>BY</td>
<td>J. Perrow</td>
</tr>
<tr>
<td>METHOD: Stereoplanigraph</td>
<td>LANDMARKS AND AIDS BY</td>
<td></td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>PLOTTED BY</td>
<td>J. Perrow</td>
</tr>
<tr>
<td>METHOD: Corodomat</td>
<td>CHECKED BY</td>
<td>J. Perrow</td>
</tr>
<tr>
<td>3. STEREOPHOTOGRAMMETRIC</td>
<td>PLANIMETRY BY</td>
<td>R. White</td>
</tr>
<tr>
<td>COMPILATION</td>
<td>CHECKED BY</td>
<td>A. Shands</td>
</tr>
<tr>
<td>INSTRUMENT: Graphic Methods</td>
<td>CONTOURS BY</td>
<td>N.A.</td>
</tr>
<tr>
<td>SCALE: 1:5,000</td>
<td>CHECKED BY</td>
<td>N.A.</td>
</tr>
<tr>
<td>4. MANUSCRIPT DELINEATION</td>
<td>PLANIMETRY BY</td>
<td>R. White</td>
</tr>
<tr>
<td>METHOD: Smooth drafted</td>
<td>CHECKED BY</td>
<td>L. Neterer</td>
</tr>
<tr>
<td>CONTOURS BY</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
<tr>
<td>SCALE: 1:5,000</td>
<td>HYDRO SUPPORT DATA BY</td>
<td>R. White</td>
</tr>
<tr>
<td>CHECKED BY</td>
<td>L. Neterer</td>
<td>June 1972</td>
</tr>
<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td>BY</td>
<td>R. Minton</td>
</tr>
<tr>
<td></td>
<td>CHECKED BY</td>
<td>C. Blood</td>
</tr>
<tr>
<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td>BY</td>
<td>R. Minton</td>
</tr>
<tr>
<td></td>
<td>CHECKED BY</td>
<td>C. Blood</td>
</tr>
<tr>
<td>7. COMPILATION SECTION REVIEW</td>
<td>BY</td>
<td>J. Hancock</td>
</tr>
<tr>
<td></td>
<td>CHECKED BY</td>
<td>J. Hancock</td>
</tr>
<tr>
<td>8. FINAL REVIEW</td>
<td>BY</td>
<td>P. D桟桟桟桟</td>
</tr>
<tr>
<td>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</td>
<td>BY</td>
<td>P. D桟桟桟桟</td>
</tr>
<tr>
<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
<td>BY</td>
<td>P. D桟桟桟桟</td>
</tr>
<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td>BY</td>
<td>P. D桟桟桟桟</td>
</tr>
</tbody>
</table>

NOAA FORM 76-36A

U.S. G.P.O. 1972-769382/582 REG.6
1. COMPILATION PHOTOGRAPHY

**Camera(s):** Wild RC-8 "S", S=152.29MM

**Tide Stage Reference:**
- [x] Predicted Tides
- [ ] Reference Station Records
- [ ] Tide Controlled Photography

<table>
<thead>
<tr>
<th>Number and Type</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>63S(P) 7833 - 7835*</td>
<td>Aug. 29, 1963</td>
<td>09:06</td>
<td>1:30,000</td>
<td>1.1 Ft. above MLLW</td>
</tr>
<tr>
<td>63S(C) 7871 - 7873**</td>
<td>Aug. 29, 1963</td>
<td>09:51</td>
<td>1:15,000</td>
<td>1.6 Ft. above MLLW</td>
</tr>
</tbody>
</table>

**Remarks:**
- *Bridging/compilation photographs, **Compilation/hydro support photographs

Mean Tide Range = 1.4 Ft

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from office interpretation of the compilation photographs using graphic methods.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

No mean lower low water line was compiled.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-9361A</td>
<td>1973</td>
<td>Registered</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H-9807</td>
<td>1979</td>
<td></td>
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</table>

5. FINAL JUNCTIONS

**North:** T-12552*

**East:** T-12552*

**South:** T-12552*

**West:** None

**Remarks:**
This inset map is contained within the western region of T-12552, 1:10,000 scale.
**HISTORY OF FIELD OPERATIONS**

1. **FIELD INSPECTION OPERATION**

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>R. Newsom</td>
<td>Feb.-Sept. 1964</td>
</tr>
<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>E. Cline</td>
<td>July 1964</td>
</tr>
<tr>
<td>3. VERTICAL CONTROL</td>
<td>None</td>
<td>July 1964</td>
</tr>
<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>5. GEOGRAPHIC NAMES INVESTIGATION</td>
<td>None</td>
<td>None</td>
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</tbody>
</table>

2. **FIELD EDIT OPERATION**

<table>
<thead>
<tr>
<th>TYPE OF INVESTIGATION</th>
<th>RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Recovered by E. Cline established by E. Cline pre-marked or identified by E. Cline</td>
</tr>
<tr>
<td></td>
<td>Recovered by E. Cline established by E. Cline pre-marked or identified by E. Cline</td>
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3. **SOURCE DATA**

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>63(S)7835*</td>
<td>OHEPUUPUU, 1890 (Direct &amp; Sub. Pt.)</td>
</tr>
<tr>
<td></td>
<td>*Partial ratio print</td>
</tr>
<tr>
<td></td>
<td>63(S)7833–7835 (1:30,000 scale matte contacts)</td>
</tr>
</tbody>
</table>

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

5. GEOGRAPHIC NAMES: [ ] REPORT [ ] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [ ] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 Form 152 (CSI)
Project Field Report
### HISTORY OF FIELD OPERATIONS

**I. FIELD INSPECTION OPERATION**

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>(NOAA Ship FAIRWEATHER) C. Burroughs</td>
<td>Mar./Apr. 1973</td>
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**II. SOURCE DATA**

<table>
<thead>
<tr>
<th>1. HORIZONTAL CONTROL IDENTIFIED</th>
<th>2. VERTICAL CONTROL IDENTIFIED</th>
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<tbody>
<tr>
<td>None</td>
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<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
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</table>

<table>
<thead>
<tr>
<th>PHOTO NUMBERS</th>
<th>3. PHOTO NUMBERS (Classification of details)</th>
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<tbody>
<tr>
<td>None</td>
<td>None</td>
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<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>OBJECT NAME</th>
<th>PHOTO NUMBER</th>
<th>OBJECT NAME</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
<th>5. GEOGRAPHIC NAMES</th>
<th>6. BOUNDARY AND LIMITS</th>
<th>7. SUPPLEMENTAL MAPS AND PLANS</th>
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<tbody>
<tr>
<td>REPORT</td>
<td>NONE</td>
<td>REPORT</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>8. OTHER FIELD RECORDS</th>
<th>Sketch books, etc. DO NOT list data submitted to the Geodesy Division</th>
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</thead>
<tbody>
<tr>
<td>1 Field edit paper print</td>
<td>1 Field edit report</td>
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**NOAA FORM 76-36D**

**T-13312**

**RECORD OF SURVEY USE**

### I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>Compilation Stages</th>
<th>Date</th>
<th>Remarks</th>
<th>Marine Charts</th>
<th>Hydro Support</th>
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<tbody>
<tr>
<td>Compilation complete</td>
<td></td>
<td>Class II manuscript</td>
<td>None</td>
<td>July 1972</td>
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<tr>
<td>pending field edit</td>
<td>June 1972</td>
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<td></td>
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</tr>
<tr>
<td>Field edit applied</td>
<td>June 1974</td>
<td>Unreviewed Class I</td>
<td>None</td>
<td>June 1974</td>
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<tr>
<td>manuscript</td>
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</tr>
<tr>
<td>Compilation office review</td>
<td>Dec. 1979</td>
<td>Class I manuscript</td>
<td>Dec. 1979</td>
<td>Dec. 1979</td>
</tr>
<tr>
<td>Final review</td>
<td>Apr. 1987</td>
<td>Final map</td>
<td></td>
<td></td>
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</tbody>
</table>

### II. LANDMARKS AND AIDS TO NAVIGATION

- None

### III. FEDERAL RECORDS CENTER DATA

- Bridging photographs: [ ]
- Duplicate bridging report: [ ]
- Computer readouts: [ ]
- Control station identification cards: [ ]
- Form Nos 557 submitted by field parties: [ ]
- Source data (except for Geographic Names Report) as listed in Section II, NOAA Form 76-36C. Account for exceptions: [ ]

### IV. SURVEY EDITIONS

<table>
<thead>
<tr>
<th>Second Edition</th>
<th>Survey Number</th>
<th>Job Number</th>
<th>Type of Survey</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Revised</td>
</tr>
<tr>
<td>Third Edition</td>
<td></td>
<td></td>
<td>Revised</td>
</tr>
<tr>
<td>Fourth Edition</td>
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<td>Revised</td>
</tr>
</tbody>
</table>
JOB PH-6402
SHORELINE MAPPING
HAWAII IS. WEST COAST
KAILUA TO SOUTH CAPE
SCALE 1:50,000

OFFICIAL MILEAGE FOR COST ACCOUNT:

<table>
<thead>
<tr>
<th>Sheet No.</th>
<th>Area Sq. Miles</th>
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</thead>
<tbody>
<tr>
<td>T-12546</td>
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<tr>
<td>T-12547</td>
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<tr>
<td>T-12548</td>
<td>3</td>
</tr>
<tr>
<td>T-12549</td>
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</tr>
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<tr>
<td>T-11797</td>
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<tr>
<td>T-13312</td>
<td>2</td>
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</tbody>
</table>

Total 46
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-13312

This 1:5,000 scale Final Field Edited Map is one of nineteen maps that comprise PH-6402, Hawaii Island, West Coast, Kailua to South Cape. The project consists of sixteen 1:10,000 scale maps (T-12546 thru T-12561) and three 1:5,000 scale inset maps (T-11796, T-11797, T-13312).

The purpose of this map was to furnish data in support of hydrographic operations and to provide current shoreline data for marine charts.

This map provides a large scale portrayal of Okoe Bay and vicinity. This inset map is contained within the western region of 1:10,000 scale map T-12552.

Photo coverage for the project was adequately provided in August/September 1963 using the Wild RC-8 "S" camera. Photography consisted of 1:30,000 scale panchromatic photographs used for field inspection, aerotriangulation, and compilation. Color photographs at 1:15,000 scale were obtained for compilation and hydro support. Additional color photographs at 1:15,000 scale were obtained in March 1969 with the Wild RC-8 "E" camera. These supplemental photographs were used to compile inset maps T-11796 and T-11797. The stage of tide for all project photographs was based upon predicted tide data. No infrared photographs were provided.

Field work prior to aerotriangulation consisted of the recovery and establishment of horizontal control by photoidentification methods. In addition, a field inspection was performed for the project area utilizing the 1:30,000 scale contact photographs. This activity was conducted in February thru September 1964 in conjunction with adjoining project PH-6401.

Analytic aerotriangulation was adequately provided by the Washington Science Center in June 1969. Tie points from photo strip #4 contained in adjoining project PH-6401 were included in this bridge. Aerotriangulation activity included ruling the base manuscripts and also provided ratio prints for compilation and hydrographic/field edit operations.

Compilation for this inset map was performed at the Coastal Mapping Section, Atlantic Marine Center in June 1972. Copies of the initial compilation and hydrographic support data were forwarded to the hydrographer for field edit.

Field edit was conducted in conjunction with hydrographic survey H-9361A by NOAA ship FAIRWEATHER personnel in April 1973.
T-13312

Application of field edit was completed at the original compilation office in December 1979. Map copies were submitted to the hydrographer for smooth sheet application.

Final review was performed at the Atlantic Marine Center in April 1987. A comparison was made with the common hydrographic survey and nautical chart. The original base manuscript and related data along with a final Chart Maintenance Print and a Hydrographic Print were forwarded to the Washington Science Center for registration and distribution.
FIELD INSPECTION
T-13312

Field activity prior to compilation included a field inspection of the shoreline and the recovery / photoidentification of horizontal control necessary for project aerotriangulation. Results of the 1964 field inspection were submitted on the 1:30,000 scale contact photographs.
Memorandum

TO: Chief, Photogrammetric Field Operations
THRU: Honolulu Field Officer

FROM: Lt(jg) Edward P. Cline

DATE: August 5, 1964

SUBJECT: Control Identification Project No. 21413

No problems were found in the control identification on Project 21413. The following is a list of the stations identified on the various flight lines:

FLIGHT STRIP NO. 5
WAIAKAKU, 1951
KAPUKANAA, 1888
OHEPUUPU, 1890

FLIGHT STRIP NO. 6
KAMOI, 1948
NA PUU a PELE, 1891
PUU IKI, 1914
TANK, 1948
Supplemental Stations Pricked:
KAUNA POINT LIGHT, 1949

FLIGHT STRIP NO. 7
KALAE 2, 1948
PALAHEMO, 1898
KANILIO, 1898
KIPAEPAE, 1898
Supplemental Stations Pricked:
KALAE LIGHT, 1948
KALAE, 1887
MAHANA, 1898

The ratio prints provided by the Washington Office were of great assistance in the identification of the stations and they were very well placed.

Edward P. Cline

Edward P. Cline

CC: Honolulu Field Office
21. Area Covered

This project extends along the southwest shore of Hawaii Island. It includes T-sheets 12546 through 12561 at 1:10,000 and T-sheets 11796, 11797 and 13312 at 1:5,000. This project joins PH-6401 which extends along the northwest shore of the island.

22. Method

Strips were bridged on the stereoplanigraph and adjusted by IBM 1620 methods. Strip #4 discussed in the report for PH-6401. Strip #10 was adjusted on five triangulation stations with tie points from Strips #4 and #11 as checks. Strip #11 was adjusted on five stations with one station and tie points as checks. The adjustment of Strip #11 met with considerable problems. These problems were due to control identification on stations KAMIILO, KIPAEPAE on the northeast end of the strip. Points were dropped from Strip #11 to enable model 63-S-7954 and 7965 to be set, thus enabling T-sheet 12561 to be completed.

T-sheets 12559 and 12560 must await further field work. Difficulties were also experienced in bridging Strip #13. This problem was resolved by dropping enough points from Strips #4 and #10 to set individual models between 63-S-8080 and 8085. All points between strips were averaged. Points were drilled by using the Wild FUG.

23. Adequacy of Control

Control provided by the field was adequate. The following stations could not be held in the bridging adjustments.

1. KEEL SOUTH BASE, 1948, SS #1 and SS #2, could not be held in Strip #13, as was the case of Strip #4 in PH-6401. No reasons could be determined for the lack of adjustment with other points.
2. KAMELO, 1949 and SS #1  
3. KIPAEPAE, 1948 and SS #1. Problems with these two stations could not be resolved. Re-identification of the stations is planned at the same time that work continues to the east.

4. McCANDLESS, 1948 SS #1 and SS #2 although held in the bridging could be seen on only one photograph in Strip #10 due to cloud coverage.

24. Supplemental Data

Ratio prints will be provided to aid in compilation. Local USGS quads were used to provide vertical points needed for the strip adjustment program.

25. Photography

Photography was not adequate to provide coverage of the 1:5,000 scale sheets. This inadequate coverage was caused by a change in the limits of the 1:5,000 areas after bridging was nearing completion. Photography was adequate in regard to definition and overlap.

Submitted by,

John D. Perrow, Jr.

Approved by,

Henry P. Eichert
Chief, Aerotriangulation Section
Notes to Compiler
PH-6402
Hawaii Island, Hawaii

The following points should be used in setting individual models along Strips #12 and #13.

(1) 63-S-7964-7965
Points 68803, 68804, 67100, 67101, 64100, 64101, 64102 and 64103.

(2) 63-S-8080-8081
Points 22330, 23310, 23800, 23801

(3) 63-S-8081-8082
Points 77331, 78333, 22801, 23800, McCANDLESS SS #1 and SS #2

(4) 63-S-8082-8083
Points 76331, 77331, 77333

(5) 63-S-8083-8084
Points 75331 HONAUNAU ST. BENEDICT CATH. CH. SPIRE, 1948 plus points dropped from model 8082-8083.

(6) 63-S-8084-8085
Points 75331, 75333 plus points dropped from model 8083-8084.

Plates 63-S-7821 and 7824 were not used in bridging Strip #10.

Plates 63-S-7976, 7978, 7880, 7982 and 7984 were not used in Strip #11.
## MAP NO. T-13312

### JOB NO. PH-6402

### GEOGRAPHIC DATUM Old Hawaiian Datum

### ORIGINATING ACTIVITY Coastal Mapping Section, AMC

### STATION NAME

<table>
<thead>
<tr>
<th>Station Name</th>
<th>Source of Information</th>
<th>AEROTRIANGULATION POINT NUMBER</th>
<th>COORDINATES IN FEET</th>
<th>GEOGRAPHIC POSITION</th>
<th>REMARKS</th>
</tr>
</thead>
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<td>OHEPUU PUU (H.G.S.), 1890</td>
<td>G.P.</td>
<td>Pg. 18</td>
<td>( x = )</td>
<td>( \phi = 19^\circ 08' 15.598'' )</td>
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<td></td>
<td></td>
<td></td>
<td>( y = )</td>
<td>( \lambda = 155^\circ 54' 52.428'' )</td>
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<td>HANAMALO 2 (H.G.S.), 1890</td>
<td>G.P.</td>
<td>Pg. 17</td>
<td>( x = )</td>
<td>( \phi = 19^\circ 09' 33.253'' )</td>
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<td></td>
<td></td>
<td>( y = )</td>
<td>( \lambda = 155^\circ 55' 04.810'' )</td>
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### COMPUTED BY

A. C. Rauch, Jr.

### DATE 8/4/69

### COMPUTATION CHECKED BY

R. White

### DATE 2/13/70

### LISTED BY

### DATE

### HAND PLOTTING CHECKED BY

### DATE
COMPILATION REPORT
T-13312

31. **DELINEATION:**

Delineation was accomplished by graphic methods using ratio prints of the 1:15,000 scale photographs. Control for the ratio prints was established by setting the stereo models of the 1:30,000 scale bridging/compilation photographs and using the common 1:10,000 scale map, T-12552 for a base sheet. Common shoreline pass points were located and scaled from T-12552 and these points were transferred to this 1:5,000 scale sheet for graphic compilation.

Field inspection data, annotated on the 1963 1:30,000 bridging photographs, was applied where the features could be accurately identified on the compilation photographs. Individual rocks that could not be clearly identified were not compiled.

Photo quality and coverage were adequate.

32. **CONTROL:**

Refer to the Photogrammetric Plot Report, dated June 10, 1969 and Item #31.

33. **SUPPLEMENTAL DATA:**

None.

34. **CONTOURS AND DRAINAGE:**

Contours are inapplicable. Drainage was delineated from the compilation photographs.

35. **SHORELINE AND ALONGSHORE DETAILS:**

The shoreline, coral and foul limits were delineated from office interpretation of the photographs and from the annotated photographs resulting from the precompilation field inspection. Because of the small tide range, no mean lower low water line was compiled.

36. **OFFSHORE DETAILS:**

Compilation of offshore detail was performed as described in Item #31.

37. **LANDMARKS AND AIDS:**

There were no charted landmarks or fixed aids within the limits of this manuscript.
38. CONTROL FOR FUTURE SURVEYS:
   None.

39. JUNCTIONS:
   Refer to the Data Record Form 76-36B, Item 5.

40. HORIZONTAL AND VERTICAL ACCURACY:
   Refer to the Photogrammetric Plot Report dated June 10, 1969.

46. COMPARISON WITH EXISTING MAPS:
   A comparison was made with USGS quadrangle Miloli'i, Hawaii, scale 1:24,000, dated 1962.

47. COMPARISON WITH NAUTICAL CHARTS:

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:
   None.

ITEMS TO BE CARRIED FORWARD:
   None.

Submitted by:

W. White
Cartographic Technician
June 1972

Approved:

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section
ADDENDUM TO THE COMPILATION REPORT

T-13312

Field edit was performed in April 1973 by NOAA ship FAIRWEATHER personnel. Adequate field data was furnished to advance the manuscript to Class I.
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-5402 Hawaii

T-13312

Hanamalo Point
Island of Hawaii
Kakio Point
Kapua Bay
Kaupo Bay
Lae o Ahole
Lae o Humuhumu
Mokunaia Point
Oea Bay
Okoe
Okoe Bay
Pacific Ocean
Puu Hinahina Bay

Approved by:
A. Joseph Wraight
Chief Geographer

Prepared by:
Frank W. Pickett
Cartographic Technician
FIELD EDIT REPORTS

KONA COAST, ISLAND OF HAWAII

OPR-419  FA-73

MARCH - APRIL 1973

MAPS

T-11797
T-12547
T-12550
T-12551
T-12552
T-13312
FIELD EDIT REPORT

KONA COAST, ISLAND OF HAWAII

OPR-419

MARCH-APRIL 1973

INTRODUCTION

Field edit reports are attached for the following maps: T-11797, T-12547, T-12550, T-12551, T-12552, T-13312.

Field photographs and copies of the field edit ozalids were taken into the field. Due to the small tidal range in the area, shoreline verifcation was done by visual inspection at various tide stages. Sextant fixes were plotted on the appropriate boat sheet. Height data for rocks, ledges, and reefs is either written directly on the ozalid, or entered in the field edit notebook along with position data, and referenced on the ozalid. Because of the rough surf conditions existing in the working grounds, sextant fixes could not be taken on some near shore rocks and ledges. In these cases positions are based on visual verification by the field editor. Due to the uncommon clarity of the off shore water, numerous submerged rocks and foul areas drawn on the ozalid were found to be at such depths so as not to constitute hazards. These have been noted, and new limits and locations appear on the ozalids. All times are based on the 135°W meridian. Compilation of those maps is in general good, and field inspection is complete.

It is recommended that the maps be revised in accordance with the notes on the ozalids, and in the field edit notebook before acceptance as advanced manuscripts.

Respectfully submitted,

John A. Murphy  Ens. N.O.A.A.

Approved and forwarded

Charles A. Burroughs  CDR. N.O.A.A.
FIELD EDIT REPORT

MAP T-13312
OKOE BAY, ISLAND OF HAWAII
APRIL 1973

Field edit of map T-13312 was done by Ens. John A. Murphy during April 1973. Inspection was done on foot and in a small skiff when surf conditions permitted.

METHOD

Field photographs and a copy of field edit ozalid were examined in the field. Shoreline verification was done by visual comparison of the beach area and the map in the field. Isolated rocks and ledges were located by sextant fixes, when surf conditions permitted, and plotted on boatsheet FA 5-2-73. Otherwise visual verification was used.

An Apelco Fisherman's portable fathometer (serial no. 34043) was used to determine depth. Heights or depths of rocks, reefs, and ledges are noted in the field edit notebook or directly on the ozalid. All times are based on 135 W meridian.

ADEQUACY OF COMPILATION

Compilation of this map is fair. Due to the enlarged scale of the map, many shoreline discrepancies were found. However, surf conditions prevented accurate positioning of some of these changes. All discrepancies are noted on the ozalid. Field edit of this map is complete.

RECOMMENDATIONS

It is recommended that the map be revised in accordance with notes on the ozalid and in the field edit notebook and that the map be accepted as an advance manuscript.

Respectfully submitted,

John A. Murphy, Ens. NOAA
61. GENERAL STATEMENT:

Final review for this Final Field Edited Map was accomplished at the Atlantic Marine Center in April 1987. For a schedule of the office and field operations, refer to the Summary included with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS quadrangle Miliolii, Hawaii, scale 1:24,000, dated 1962.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

This map is common to portions of hydrographic surveys H-9357 (1973), H-9361A (1973) and H-9807 (1979). A comparison was made with a registered copy of H-9361A, FA-5-2-73, 1:5,000 scale, surveyed 1973 and with H-9807, FA-10-1-79, 1:10,000 scale, surveyed 1979. No significant discrepancies were noted. A comparison was not made with survey H-9357.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with NOS Chart 19320, 13th edition, scale 1:250,000, July 10, 1982.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instructions, and meets the requirements for National Standards of Map Accuracy.

Submitted by:

Jerry L. Hancock
Final Reviewer

Approved for forwarding:

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved:

Jay O. Robson
Chief, Photogrammetric Production Sec.  A.Y. Brown
Chief, Photogrammetry Branch
### INSTRUCTIONS

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 Revi

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