<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>T-12551</td>
<td>1</td>
</tr>
<tr>
<td>Job No.</td>
<td></td>
</tr>
<tr>
<td>Ph-6402</td>
<td></td>
</tr>
<tr>
<td>Map Classification</td>
<td>FINAL FIELD EDITED MAP</td>
</tr>
<tr>
<td>Type of Survey</td>
<td>SHORELINE</td>
</tr>
<tr>
<td><strong>LOCALITY</strong></td>
<td></td>
</tr>
<tr>
<td>State</td>
<td>HAWAII</td>
</tr>
<tr>
<td>General Locality</td>
<td>HAWAII ISLAND, WEST COAST</td>
</tr>
<tr>
<td></td>
<td>KAILUA TO SOUTH CAPE</td>
</tr>
<tr>
<td>Locality</td>
<td>PAPA BAY</td>
</tr>
</tbody>
</table>

**1963 TO 1973**

**REGISTRY IN ARCHIVES**

**DATE**
## III. 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>J. Perrow</td>
<td>June 1969</td>
</tr>
<tr>
<td>METHOD: Stereoplaingraph</td>
<td>LANDMARKS AND AIDS BY</td>
<td></td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>J. Perrow</td>
<td>June 1969</td>
</tr>
<tr>
<td>METHOD: Coradomat</td>
<td>CHECKED BY</td>
<td></td>
</tr>
<tr>
<td>3. STEREOSCOPIC INSTRUMENT</td>
<td>L. Neterer</td>
<td>June 1972</td>
</tr>
<tr>
<td>COMPILATION</td>
<td>CHECKED BY</td>
<td></td>
</tr>
<tr>
<td>INSTRUMENT: Wild B-8</td>
<td>N.A.</td>
<td></td>
</tr>
<tr>
<td>SCALE: 1:10,000</td>
<td>CHECKED BY</td>
<td></td>
</tr>
<tr>
<td>4. MANUSCRIPT Delineation</td>
<td>L. Neterer</td>
<td>June 1972</td>
</tr>
<tr>
<td>METHOD: Smooth drafted</td>
<td>A. Shands</td>
<td>Aug. 1972</td>
</tr>
<tr>
<td>SCALE: 1:10,000</td>
<td>CHECKED BY</td>
<td></td>
</tr>
<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td>L. Neterer</td>
<td>June 1972</td>
</tr>
<tr>
<td>METHOD:</td>
<td>A. Shands</td>
<td>Aug. 1972</td>
</tr>
<tr>
<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td>R. Minton</td>
<td>June 1974</td>
</tr>
<tr>
<td>CHECKED BY</td>
<td>J. Roderick</td>
<td>Nov. 1979</td>
</tr>
<tr>
<td>7. COMPILATION SECTION REVIEW</td>
<td>J. Roderick</td>
<td>Nov. 1979</td>
</tr>
<tr>
<td>8. FINAL REVIEW</td>
<td>J. Hancock</td>
<td>Apr. 1987</td>
</tr>
<tr>
<td>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</td>
<td>J. Hancock</td>
<td>June 1987</td>
</tr>
<tr>
<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
<td>E. Daugherty</td>
<td>Nov. 1977</td>
</tr>
<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1. COMPILATION PHOTOGRAPHY

CAMERA(S)
Wild RC-8 "S", S=152.29mm

TIDE STAGE REFERENCE
XX 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)7829-7832*</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)7875-7880**</td>
<td>Aug. 29, 1963</td>
<td>09:52</td>
<td>1:15,000</td>
<td>1.6 FT. above MLLW</td>
</tr>
</tbody>
</table>

REMARKS
*Bridging/compilation photographs, **Compilation/hydro support photographs

2. SOURCE OF MEAN HIGH-WATER LINE:

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

3. SOURCE OF MEAN LOWER LOW-WATER OR MEAN LOWERER 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>
</tr>
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<tbody>
<tr>
<td>H-9356</td>
<td>1973</td>
<td>Registered</td>
</tr>
<tr>
<td>H-9807</td>
<td>1979</td>
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5. FINAL JUNCTIONS

<table>
<thead>
<tr>
<th>NORTH</th>
<th>EAST</th>
<th>SOUTH</th>
<th>WEST</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>T-12550</td>
<td>None</td>
<td>T-12552</td>
<td>None</td>
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</table>

REMARKS
### 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>Chief of Field Party</td>
<td>R. Newsom</td>
<td>Feb.-Sept. 1964</td>
</tr>
</tbody>
</table>

#### 2. HORIZONTAL CONTROL

<table>
<thead>
<tr>
<th>RECOVERED BY</th>
<th>ESTABLISHED BY</th>
<th>PRE-MARKED OR IDENTIFIED BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>E. Cline</td>
<td>E. Cline</td>
<td>E. Cline</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>RECOVERED BY</th>
<th>ESTABLISHED BY</th>
<th>PRE-MARKED OR IDENTIFIED BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
<td>None</td>
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</table>

#### 3. VERTICAL CONTROL

<table>
<thead>
<tr>
<th>RECOVERED BY</th>
<th>ESTABLISHED BY</th>
<th>PRE-MARKED OR IDENTIFIED BY</th>
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</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
<td>None</td>
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</tbody>
</table>

#### 4. LANDMARKS AND AIDS TO NAVIGATION

<table>
<thead>
<tr>
<th>RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY</th>
<th>TYPE OF INVESTIGATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
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#### 5. GEOGRAPHIC NAMES INVESTIGATION

<table>
<thead>
<tr>
<th>TYPE OF INVESTIGATION</th>
<th>COMPLETE</th>
<th>SPECIFIC NAMES ONLY</th>
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<tbody>
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#### 6. PHOTO INSPECTION

<table>
<thead>
<tr>
<th>CLARIFICATION OF DETAILS BY</th>
<th>TYPE OF INVESTIGATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>E. Cline</td>
<td>None</td>
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</tbody>
</table>

#### 7. BOUNDARIES AND LIMITS

<table>
<thead>
<tr>
<th>SURVEYED OR IDENTIFIED BY</th>
<th>TYPE OF INVESTIGATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.A.</td>
<td>None</td>
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### SOURCE DATA

#### 1. HORIZONTAL CONTROL IDENTIFIED

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>63(S)7833*</td>
<td>KAPUKANAA, 1884 (Direct and Sub. Pt. 1)</td>
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<td></td>
</tr>
</tbody>
</table>

*Partial ratio print

#### 2. VERTICAL CONTROL IDENTIFIED

None

#### 3. PHOTO NUMBERS (Clarification of details)

63(S) 7830 - 7832 (1:30,000 scale matte contacts)

#### 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

#### 5. GEOGRAPHIC NAMES:

<table>
<thead>
<tr>
<th>REPORT</th>
<th>NONE</th>
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<tbody>
<tr>
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#### 6. BOUNDARY AND LIMITS:

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<thead>
<tr>
<th>REPORT</th>
<th>NONE</th>
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</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

#### 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 (CS1)
1 Project field report
**NOAA FORM 76-36C**  
**U.S. DEPARTMENT OF COMMERCE**  
**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION**  
**NATIONAL OCEAN SURVEY**

**T-12551**

**HISTORY OF FIELD OPERATIONS**

<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. 1973</td>
</tr>
</tbody>
</table>

**2. HORIZONTAL CONTROL**  
RECOVERED BY: None  
ESTABLISHED BY: None  
PRE-MARKED OR IDENTIFIED BY: None

**3. VERTICAL CONTROL**  
RECOVERED BY: None  
ESTABLISHED BY: None  
PRE-MARKED OR IDENTIFIED BY: None

**4. LANDMARKS AND AIDS TO NAVIGATION**  
RECOVERED (Triangulation Stations) BY: None  
LOCATED (Field Methods) BY: None  
IDENTIFIED BY: None

**5. GEOGRAPHIC NAMES INVESTIGATION**  
□ COMPLETE □ SPECIFIC NAMES ONLY □ NO INVESTIGATION

**6. PHOTO INSPECTION**  
CLARIFICATION OF DETAILS BY: None

**7. BOUNDARIES AND LIMITS**  
SURVEYED OR IDENTIFIED BY: N.A.

**II. SOURCE DATA**

<table>
<thead>
<tr>
<th>1. HORIZONTAL CONTROL IDENTIFIED</th>
<th>2. VERTICAL CONTROL IDENTIFIED</th>
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</thead>
<tbody>
<tr>
<td>None</td>
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</table>

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
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</thead>
<tbody>
<tr>
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</table>

**3. PHOTO NUMBERS (Clarification of details)**  
None

**4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED**  
None

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>OBJECT NAME</th>
<th>PHOTO NUMBER</th>
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</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**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 Field edit report, 1 Field edit book (Form 275)  
1 Field edit paper print
**T-12551 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>
</tr>
</thead>
<tbody>
<tr>
<td>Compilation complete pending field edit</td>
<td>Aug. 1972</td>
<td>Class II manuscript</td>
<td>None</td>
<td>Jan. 1973</td>
</tr>
<tr>
<td>Field edit applied</td>
<td>June 1974</td>
<td>Unreviewed Class I</td>
<td>None</td>
<td>June 1974</td>
</tr>
<tr>
<td>Compilation office review, compilation</td>
<td>Nov. 1979</td>
<td>Class I manuscript</td>
<td>Nov. 1979</td>
<td>Nov. 1979</td>
</tr>
<tr>
<td>complete</td>
<td>April 1987</td>
<td>Final map</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### II. LANDMARKS AND AIDS TO NAVIGATION

- None

### III. FEDERAL RECORDS CENTER DATA

1. Bridging photographs; Duplicate Bridging Report; Computer Readouts.
2. Control station identification cards; Form NOS 567 submitted by field parties.
3. Source data (except for Geographic Names Report) as listed in Section II, NOAA Form 76-36C.

### IV. SURVEY EDITIONS

<table>
<thead>
<tr>
<th>Survey Edition</th>
<th>Survey Number</th>
<th>Job Number</th>
<th>Type of Survey</th>
<th>Map Class</th>
<th>Date of Photography</th>
<th>Date of Field Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second Edition</td>
<td></td>
<td>(2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Third Edition</td>
<td></td>
<td>(3)</td>
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<tr>
<td>Fourth Edition</td>
<td></td>
<td>(4)</td>
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</tbody>
</table>
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12551

This 1:10,000 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 portrays the shoreline along the southwest coast of Hawaii Island from Latitude 19° 11' 15" to Latitude 19° 15' 00".

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 map was performed at the Coastal Mapping Section, Atlantic Marine Center in August 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-9356 by NOAA ship FAIRWEATHER personnel in March 1973.

Application of field edit was completed at the original compilation office in November 1979 and the manuscript was advanced to Class I. 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-12551

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
WAIKAKU, 4, 1951
KAPUKAWAA, 1884
OHEPUUPU, 1890

FLIGHT STRIP NO. 6
KAEMI, 1948
NA PUU a PELE, 1891
PUU KI, 1914
TANK, 1948
Supplemental Station Pricked:
KAUNA POINT LIGHT, 1949

FLIGHT STRIP NO. 7
KALAE 2, 1948
PALAHEMO, 1898
KAMILO, 1898
KIIPAEBAE, 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 #12 met with considerable problems. These problems were due to control identification on stations KAMIKO, KIPEPAE on the northeast end of the strip. Points were dropped from Strip #11 to enable model 63-S-7964 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 PUG.

23. Adequacy of Control

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

1. KEEI SOUTH BASE, 1948, SS #1 and SS #2, could not be held in Strip #13, as was the case of Strip #4 in PH-5401. No reasons could be determined for the lack of adjustment with other points.
2. KAMMIO, 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,

[Signature]
John D. Perrow, Jr.

Approved by,

[Signature]
Henry P. Eichert
Chief, Aerotriangulation Section
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 22300, 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.
<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>ORIGINATING ACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>KAPUKAWAA (H.G.S.) (H.T.S. 1939), 1884</td>
<td>G.P. Pg. 17</td>
<td></td>
<td></td>
<td></td>
<td>Coastal Mapping Section, AMC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>x=</td>
<td>φ 19° 11' 25.269&quot;</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>y=</td>
<td>λ 155° 54' 36.268&quot;</td>
<td></td>
</tr>
</tbody>
</table>
COMPILATION REPORT
T-12551

31. DELINEATION:

Delineation was by instrument methods using the Wild B-8 stereoplotter and 1:30,000 scale panchromatic compilation/bridging photographs. Ratio prints of the 1:15,000 scale color photographs were used graphically to supplement the compilation of minor detail and to assist in photo interpretation.

The field inspection supplied on the 1:30,000 scale contact prints was difficult to interpret. Individual rocks that could not be clearly identified during compilation were not compiled.

Photo quality and coverage were adequate.

32. CONTROL:

Refer to the Photogrammetric Plot Report, dated June 10, 1969.

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 Milolii, 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:

L. Neterer, Jr.
Cartographic Technician
July 1972

Approved:

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

T-12551

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

FINAL NAME SHEET

PH-6402 Hawaii

T-12551

Alika
Alika Bay
Arched Rock
Hoopuloa
Island of Hawaii
Kamini Point
Kipahoe Bay
Makahiki Point
Milolii
Milolii Bay
Pacific Ocean
Papa Bay

Approved by:

A. J. Wright
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

MAP T-12551
PAPA BAY, ISLAND OF HAWAII
MARCH 1973

Field edit of map T-12551 was done by Ens. John A. Murphy during the later part of March 1973. Inspection was done on foot and in a small skiff.

METHOD

Field photographs and a copy of the 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 boat sheet FA-10-1-73. Otherwise visual verification of location was used. An Apelco Fisherman's portable fathometer, s/n 34043, was used to determine the depth of the coral limit marked as foul limits on the map. 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 125° W meridian.

ADEQUACY OF COMPILATION

Compilation of this map is good considering the prevailing surf conditions. Hydrographic location of features compares well to photogrammetric location. Note is made of the following items:

a) The arched rock shown at location 19°14'15" N, 155°54'13" W is no longer arched but is now a pillar rock which bears approximately 60' and makes a good landmark for near shore navigation.

b) The foul line shown on the map is actually the limit of coral growth in the area and is at an average depth of 45 feet. The unusual water clarity accounts for this misinterpretation.

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,

[Signature]

John A. Murphy Ens. NOAA
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-1312.

Field photographs and copies of the field edit ozalids were taken into the field. Due to the small tidal range in the area, shoreline verification 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 these 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  Engr. N.O.A.A.

Approved and forwarded

Charles A. Burroughs  CDR. N.O.A.A.
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 Milolii, Hawaii, scale 1:24,000, dated 1962.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

This map is common to portions of hydrographic surveys H-9356, H-9357 and H-9807. A comparison was made with a registered copy of H-9356, FA-10-1-73, 1:10,000 scale, surveyed 1973 and 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.

The charted light known as Milolii Point Light was not investigated for this map; however, it appears to have been located in conjunction with hydro survey H-9357 in 1973.
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:

Chief, Photogrammetric Production Sec.    Chief, Photogrammetry Branch
INSTRUCTIONS
A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Enter 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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