

11908

Diag. Cht. No. 4116.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Ph-6012 Office No. T-11908

LOCALITY

State Hawaii

General locality Maui Island

Locality Nahiku

1962 1960-1963

CHIEF OF PARTY

H. J. Seaborg, Honolulu District Office

W. E. Randall, Baltimore District Office

LIBRARY & ARCHIVES

DATE _____

USCGM-DC 5087

11908

DESCRIPTIVE REPORT - DATA RECORD

T-11908

| | | |
|--|-----------------------------------|--|
| PROJECT NO. (II): PH 6012 | | |
| FIELD OFFICE (II): Honolulu, Hawaii | | CHIEF OF PARTY H. J. Seaborg |
| PHOTOGRAMMETRIC OFFICE (III): Baltimore, Maryland | | OFFICER-IN-CHARGE W. E. Randall |
| INSTRUCTIONS DATED (II) (III): 14 November 1960 28 November 1960 13 June 1961 16 January 1962 | | |
| METHOD OF COMPILATION (III): Kelsh Plotter | | |
| MANUSCRIPT SCALE (III): 1:10,000 | | 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): MSL MEAN SEA LEVEL EXCEPT AS FOLLOWS: <i>Elevations shown as (25) refer to mean high water</i> <i>Elevations shown as (5) refer to sounding datum</i> <i>i.e., mean low water or mean lower low water</i> |
| REFERENCE STATION (III): OPIKOULA (HGS) (HTS 1929) 1877 | | |
| LAT.: 20° 49' 49.002" | LONG.: 156° 05' 14.563" | <input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED |
| PLANE COORDINATES (IV): y = 180,844.12 x = 697,822.23 | | 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

| | | |
|---|--|--|
| FIELD INSPECTION BY (III): J. C. Lajoie | | DATE: Nov. 1961 |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Mean high water line located by Kelsh Plotter from October 1960 photography supplemented by panchromatic and color photography in 1961. | | |
| PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree | | DATE 3-16-62 |
| PROJECTION AND GRIDS CHECKED BY (IV): A. E. Roundtree | | DATE 3-17-62 |
| CONTROL PLOTTED BY (III): H. R. Rudolph | | DATE 4-2-62 |
| CONTROL CHECKED BY (III): B. Carr | | DATE 4-2-62 |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Aerotriangulation - Washington Office | | DATE |
| STEREOSCOPIC INSTRUMENT COMPILATION (III): E. L. Williams | | PLANIMETRY E. L. Williams DATE 5-62 |
| | | CONTOURS Inapplicable DATE |
| MANUSCRIPT DELINEATED BY (III): E. L. Williams | | DATE 5-62 |
| SCRIBING BY (III): | | DATE |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. M. Brant | | DATE 5-62 |
| REMARKS: FIELD EDIT USC & GSS PATH FINDER 1963 FIELD EDIT SHEET SUBMITTED | | |

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

nw Camera

PHOTOGRAPHS (III)

| NUMBER | DATE | TIME | SCALE | STAGE OF TIDE |
|--|---------------|------|----------|--------------------|
| 60 W 2954 thru 2956 | 15 Oct. 1960 | 0923 | 1:25,000 | 1.8 ft. above MLLW |
| 61 W 844 thru 846 | 24 Sept. 1961 | 0912 | 1:15,000 | 0.2 ft. above MLLW |
| 60 W(C) 3125 thru 3128 | 19 Oct. 1960 | 0755 | 1:10,000 | 0.3 ft. above MLLW |
| 62 W(C) 2311 thru 2316 | 26 Jan. 1962 | 1001 | 1:10,000 | 0.9 ft. above MLLW |
| Tides computed from Predicted tide tables. | | | | |

TIDE (III)

Diurnal Range

| | RATIO OF RANGES | MEAN RANGE | SPRING RANGE |
|-------------------------------------|-----------------|------------|--------------|
| REFERENCE STATION: Honolulu, Hawaii | | 1.2 | 1.9 |
| SUBORDINATE STATION: Hana, Hawaii | | 1.8 | 2.5 |
| SUBORDINATE STATION: | | | |

FINAL
WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, Norfolk Regional Office

DATE: Nov. 1965

PROOF EDIT BY (IV):

DATE: Dec. 1965

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

1

RECOVERED:

1

IDENTIFIED:

#2

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

0

RECOVERED:

0

IDENTIFIED:

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

3

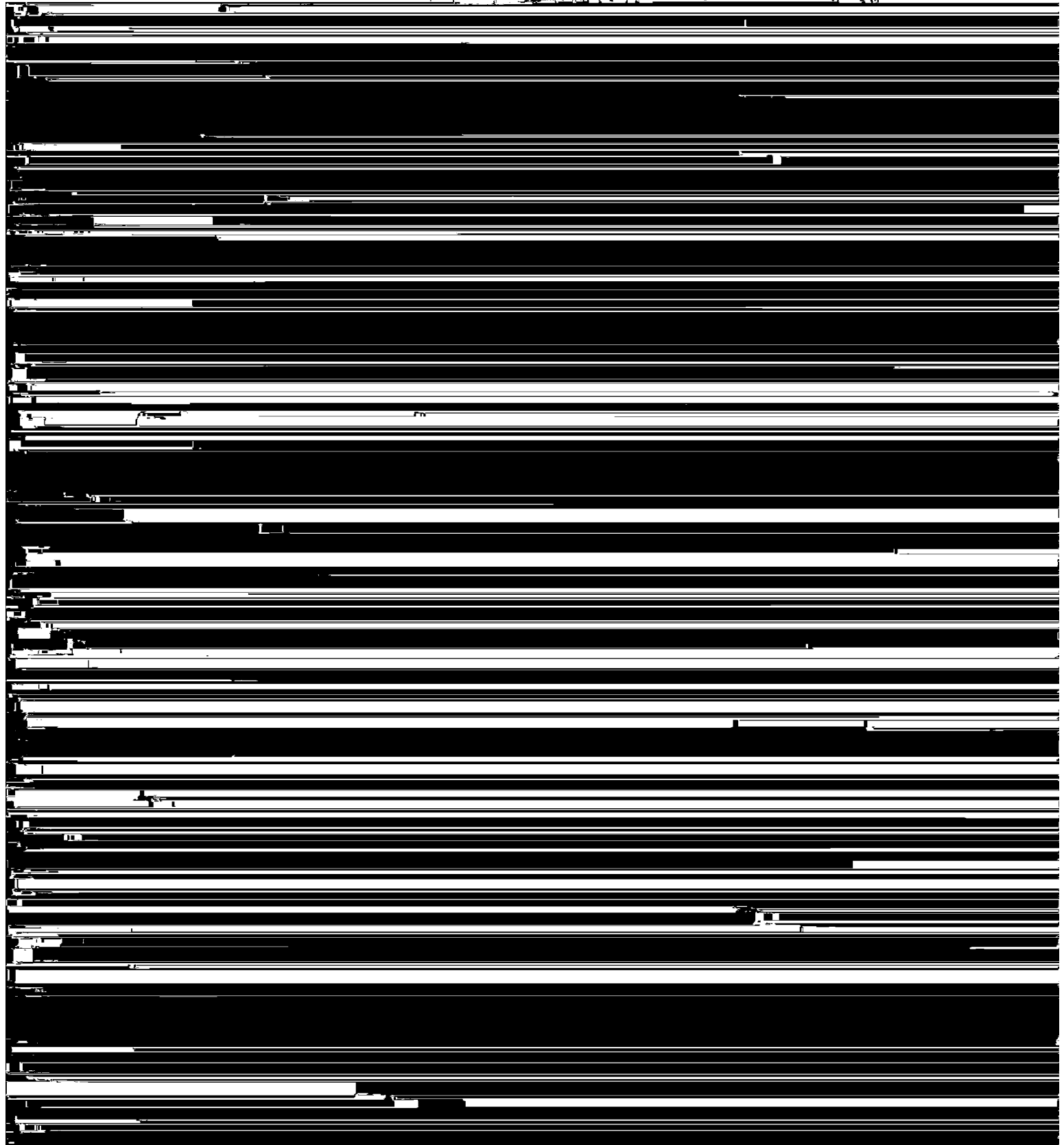
REMARKS:

* Includes a temporary station established.

| COMPILATION RECORD | COMPLETION DATE | REMARKS |
|----------------------------|-----------------|------------|
| Along shore area for hydro | April 1962 | superseded |
| Final Compilation | June 1964 | |
| | | |
| | | |
| | | |


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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11908

Shoreline manuscript T-11908 is one of forty-nine similar maps in this project and covers a part of the coastline of Maui Island, Hawaii. This was a Kelsh project in advance of hydrographic surveys.



FIELD INSPECTION REPORT
T-11908

Please refer to the Field Inspection Report for Maui Island
bound with the Descriptive Report for T-11991.

COMPILATION REPORT T-11908

For additional data pertaining to this survey please refer to the Field Inspection Report bound with T-11991 and the Photogrammetric Plot Report bound with T-11907.

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 compilation limits.

38. CONTROL FOR FUTURE SURVEYS

No control for future surveys was established.

39. JUNCTIONS

Satisfactory junctions were made with T-11992 on the west and with T-11909 on the east. There is no contemporary survey on the south; the Pacific Ocean is on the north.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Hana and Nahiku quadrangles, 1:24,000 scales, editions of 1957.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4116, 1:250,000 scale, 12th edition, August 17, 1964.

10.
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:

S. Hollis
W. Bull
Capt. C&GS
Norfolk Regional Officer

T-11908

48. Geographic Names List:

The Geographic names listed below were furnished by the Washington Office on U.S.G.S. Keanae and Nahiku, Hawaii, 7½ minute quadrangles, 1:24,000 scale, editions of 1957.

| | |
|-----------------------|----------------|
| Aluea Rocks | Waiaaka Stream |
| Hanawi Stream | Waihole Gulch |
| Heleleikeoha | Waioni Gulch |
| Honoluluunui Bay | Waiohue Bay |
| Kaelua | Waiohue Gulch |
| Kahawaihapapa Gulch | |
| Kalepalehua Gulch | |
| Kapaula Gulch | |
| Kapukaulua Point | |
| Keaa Beach | |
| Keaaiki Gulch | |
| Kopiliula Stream | |
| Kipakaone Bay | |
| Kuhiwa Gulch | |
| Makapipi Stream | |
| Manaalawe Point ? st. | |
| Manawaikeae Gulch | |
| Makoloaka Island | |
| Moko Huki | |
| Mokupapa | |
| Mokupipi | |
| Nakiku | |
| Opikoula Point | |
| Pacific Ocean | |
| Paipaia Point | |
| Papiha Point | |
| Paakea Gulch | |
| Puakea Gulch | |

ALL NAMES APPROVED BY
GEOGRAPHIC NAMES SECTION
UNLESS OTHERWISE MARKED.

A. J. Wright

Ph-6012
Maui Island, Hawaii
Surveys T-11907 thru T-11909

19. NOTES FOR THE HYDROGRAPHER

A set of ratio prints has been prepared for use during photo-hydro support. Photography was taken in 1960 and 1961. Color photography, where available, was used as an aid in interpreting offshore details and foul lines.

The positions of the following hydrographic signal sites have been established photogrammetrically for the following surveys.

| <u>Signal No.</u> | <u>Description</u> | <u>Photo. No.</u> |
|-------------------|------------------------------------|-------------------|
| T-11907 | | |
| 0701 | High point at offshore end of rock | 2511 |
| 0702 | Lone coconut tree | 2511 |

Additional signals in this area will have to be selected from a launch as the shoreline is along high bluffs.

| | | |
|---------|----------------------------------|------|
| T-11908 | | |
| 0801 | Rag on lauhala tree | 2956 |
| 0802 | Offshore corner of concrete slab | 2954 |
| 0803 | Offshore of two lauhala trees | 2954 |

| | | |
|---------|--------------------------|------|
| T-11909 | | |
| 0901 | Flag at point of brush | 2960 |
| 0902 | Flag at end of fence | 2960 |
| 0903 | Flag on lone rock | 2960 |
| 0904 | Flag on pinnacle rock | 2959 |
| 0905 | Rag on dead lauhala tree | 2958 |

FORM 182
(3-61)

PHOTOGRAMMETRIC OFFICE REVIEW

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

50

T-11908

| | | | | | |
|---|---|-------------------------------------|--|--|-------------------------------------|
| 1. PROJECTION AND GRIDS <i>L.F.B.</i> | | 2. TITLE <i>L.F.B.</i> | | 3. MANUSCRIPT NUMBERS <i>L.F.B.</i> | 4. MANUSCRIPT SIZE <i>L.F.B.</i> |
| CONTROL STATIONS | 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY <i>L.F.B.</i> | | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) <i>None</i> | | |
| | 7. PHOTO HYDRO STATIONS <i>None</i> | 8. BENCH MARKS <i>None</i> | 9. PLOTTING OF SEXTANT FIXES <i>None</i> | 10. PHOTOGRAMMETRIC PLOT REPORT <i>L.F.B.</i> | |
| | 11. DETAIL POINTS <i>L.F.B.</i> | | | | |
| ALONGSHORE AREAS (Nautical Chart Data) | 12. SHORELINE <i>L.F.B.</i> | 13. LOW-WATER LINE <i>L.F.B.</i> | 14. ROCKS, SHOALS, ETC. <i>L.F.B.</i> | 15. BRIDGES <i>None</i> | |
| | 16. AIDS TO NAVIGATION <i>None</i> | 17. LANDMARKS <i>None</i> | 18. OTHER ALONGSHORE PHYSICAL FEATURES <i>L.F.B.</i> | | |
| | 19. OTHER ALONGSHORE CULTURAL FEATURES <i>L.F.B.</i> | | | | |
| PHYSICAL FEATURES | 20. WATER FEATURES <i>L.F.B.</i> | | 21. NATURAL GROUND COVER <i>L.F.B.</i> | | |
| | 22. PLANETABLE CONTOURS <i>None</i> | | 23. STEREOSCOPIC INSTRUMENT CONTOURS <i>None</i> | | |
| | 24. CONTOURS IN GENERAL <i>None</i> | | 25. SPOT ELEVATIONS <i>None</i> | | |

CULTURAL
FEATURES27. ROADS
*L.F.B.*28. BUILDINGS
*L.F.B.*29. RAILROADS
*None*30. OTHER CULTURAL FEATURES
None

FIELD EDIT REPORT
T-11908

No formal Field Inspection Report was received. Please refer to the two following Memorandums concerning field edit of this manuscript.

Memorandum

24 11

DATE: 8 July 1963

TO : The Director
Coast and Geodetic Survey
U.S. Department of Commerce
Washington 25, D.C.

FROM : Commanding Officer
USSAGS Pathfinder
705 Federal Office Building
Seattle, Washington

SUBJECT: Field Edit Report - OPR-419

During the first half of the 1963 field season, Pathfinder personnel field edited the manuscript, listed below for accuracy and completeness. All recommended changes have been noted on the blackline impressions in red and green ink. In general, the manuscripts were found to be very reliable with only minor discrepancies being noted.

Four manuscripts with noted changes are being forwarded to the Washington Office on July 9. These manuscripts which no recommended changes have been noted below. The remaining manuscripts will be forwarded as soon as we have had an opportunity to compare them with the best sheets now in Washington for photographing.

| | |
|----------------|----------------------------------|
| 8-11905 | Edited - No changes |
| 8-11906 | Edited - Will be forwarded later |
| 8-11907 | Edited - Will be forwarded later |
| <u>8-11908</u> | Edited - Will be forwarded later |
| 8-11909 | Edited - Will be forwarded later |
| 8-11910 | Edited - Will be forwarded later |
| 8-11911 | Edited - Will be forwarded later |
| 8-11912 | Forwarded 9 July |
| 8-11913 | Edited - No recommended changes |
| 8-11914 | Edited - No recommended changes |
| 8-11915 | Edited - No recommended changes |
| 8-11916 | Forwarded 9 July |
| 8-11917 | Forwarded 9 July |
| 8-11918 | Forwarded 9 July |
| 8-11919 | Edited - Will be forwarded later |
| 8-11920 | Edited - Will be forwarded later |

It is requested that these manuscripts be returned to the Ship as soon as is practical as they will be needed for smooth plotting.

H. J. Seaberg
H. J. Seaberg
Captain, USCGS

Memorandum

1081
C 6314

TO : Chief, Photogrammetry Division

DATE: January 24, 1964

C 6314/w

FROM : Commanding Officer
USC&GS PATHFINDER
705 Federal Office Bldg.
Seattle 4, Washington 98104

SUBJECT: Field Edit data, Project 2103⁴ (Ph-6012), Maui Island,
Hawaii

Manuscripts T-II907 and T-II99I were corrected and sent 1/9/64 with transmittal letter PATH I-64. Manuscripts T-II906, T-II908 through T-II911 and T-II992 are being sent. Shoreline revision was necessary on T-II909 and T-II908 only.

Replying to 6314/in

for *S.L. Hollis*
H. J. Seaborg Capt. USC&GS
Ship PATHFINDER
Seattle, Washington

See

*You will not receive any notification
other than this letter re field edit of
manuscripts with no changes noted. The
~~transmittal~~ (T-II907) PROPOSEDLY copies that have
TRANSMITTED ARE WITH NO CHANGES
SENT BACK TO THE SHIP (T-II908, T-II909, T-II910, T-II911)
THEY ARE NO LONGER REQUIRED.*

Just
1/31/64

16.

REVIEW REPORT T-11908
SHORELINE

61. GENERAL STATEMENT

See summary accompanying Descriptive Report

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A visual comparison was made with Registered Planetable survey 3274, 1:20,000 scale dated March 3, 1914.

Shoreline manuscript T-11908 supersedes the prior planetable survey and should be used for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangles Keanae and Nahiku, Hawaii, 1:24,000 scale, editions of 1957.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheets H-8720-PF-10-3-63-GG and gg and with H-8721-PF-10-4-63. Two islands shown on boat sheet H-8720-PF-10-3-63-GG at latitude $20^{\circ} 49' 54''$ longitude $156^{\circ} 06' 12''$ and at latitude $20^{\circ} 49' 55''$ longitude $156^{\circ} 05' 55''$ are not visible on photograph 61W 845 and 61W 846 of September 24, 1961 taken at 0912 with the stage of tide at 0.2 ft. above MLLW. *

maybe part of breakers symbol
← 0805dg

The shoreline of the boat sheets and the manuscript are in good agreement.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with nautical chart 4116, 1:250,000 scale, August 17, 1964.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

* INFORMATION REPORTED TO HYDRO BRANCH BY MEAN OF
A "NOTES TO VERIFIER PAGE" ON AUG. 16, 1966

Reviewed by:

Leo F. Bengt

Approved by:

S. Hollis

J. Bull, Director, Atlantic Marine Center

Approved by:

Charles Leman

Chief, Cartographic Branch 568

L. J. Woodcock

Chief, Photogrammetry Division

John D. Boyer 2/21/68

Chief, Chart Division
Marine

Chief, Operations Branch

NOTES TO VERIFIER
H-8720 and H-8721
(Comparison with T-11908)

The following information is included under side heading
64 of the final review report for T-11908:

Comparison was made with a copy of boat sheets H-8720
(PF-10-3-63-GG and gg) and with H-8721 (PF-10-4-63.
Two islands shown on H-8720 at latitude $20^{\circ}49'54''$ and
longitude $156^{\circ}06'12''$, and latitude $20^{\circ}49'55''$ and longitude
 $156^{\circ}05'55''$ are not visible on photographs 61-W-845
and 846 of September 24, 1961, taken at 0912 with a
stage of tide at 0.2' above MLLW.

*ABB
W.O. Review Unit*

