

# 11926

Diag. Cht. 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-11926          |
| LOCALITY                                 |                             |
| State                                    | Hawaii                      |
| General locality                         | Maui Island                 |
| Locality                                 | Nahuna Point                |
| 1960 - 1962                              |                             |
| CHIEF OF PARTY                           |                             |
| H. J. Seaborg, Honolulu District Office  |                             |
| W. E. Randall, Baltimore District Office |                             |
| LIBRARY & ARCHIVES                       |                             |
| DATE                                     | 1967                        |

USCOMM-DC 5067

10/1/60-1962

11926

## DESCRIPTIVE REPORT - DATA RECORD

T -11926

PROJECT NO. (II):

PH-6012

FIELD OFFICE (III):

Honolulu District Office

CHIEF OF PARTY

H. J. Seaborg

PHOTOGRAMMETRIC OFFICE (III):

Baltimore District Office

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):

1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:5,000

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~~ MHW

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

REFERENCE STATION (III):

MAKENA, TIDAL BENCH MARK No. 2, 1931

LAT.:

20° 39' 25.985"

LONG.:

156° 26' 41.873"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

Y = 117,684.22 FT

X = 575,794.75 FT

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.

2.

|   |   |  |  |  |   |   |              |
|---|---|--|--|--|---|---|--------------|
| FORM C&GS-181b<br>(3-66)  |   | U.S. DEPARTMENT OF COMMERCE<br>ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION<br>COAST AND GEODETIC SURVEY  |  |  |   |   |              |
| <b>DESCRIPTIVE REPORT - DATA RECORD</b>   |   |  |  |  |   |   |              |
| FIELD INSPECTION BY (III):<br><br><div style="text-align: center;">J. C. Lajoie</div>   |   | DATE:<br><br><div style="text-align: center;">March 1961</div>   |  |  |   |   |              |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):<br><br><div style="text-align: center;">           Mean high water line was located by the Kelsh operator<br/>           using photography of 11 October 1960 and revised using<br/>           photography of 24 September 1961.         </div> |   |  |  |  |   |   |              |
| PROJECTION AND GRIDS RULED BY (IV):<br><br><div style="text-align: center;">RAC</div>   |   | DATE<br><br><div style="text-align: center;">21 Nov. 1960</div>  |  |  |   |   |              |
| PROJECTION AND GRIDS CHECKED BY (IV):<br><br><div style="text-align: center;">JDC</div>   |   | DATE<br><br><div style="text-align: center;">22 Nov. 1960</div>  |  |  |   |   |              |
| CONTROL PLOTTED BY (III):<br><br><div style="text-align: center;">D. M. Brant</div>   |   | DATE<br><br><div style="text-align: center;">21 Mar. 1961</div>  |  |  |   |   |              |
| CONTROL CHECKED BY (III):<br><br><div style="text-align: center;">E. L. Rolle</div>   |   | DATE<br><br><div style="text-align: center;">21 Mar. 1961</div>  |  |  |   |   |              |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):<br><div style="text-align: center;">Aerotriangulation - Washington Office</div>   |   | DATE<br><br><div style="text-align: center;">Jan. 1961</div>   |  |  |   |   |              |
| STEREOSCOPIC INSTRUMENT COMPILATION (III):<br><br><div style="text-align: center;">D. M. Brant</div>  |   | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">           PLANIMETRY<br/><br/> <div style="text-align: center;">D. M. Brant</div> </td> <td style="width: 50%; padding: 5px;">           DATE<br/><br/> <div style="text-align: center;">21 Feb. 1962</div> </td> </tr> <tr> <td style="padding: 5px;">           CONTOURS<br/><br/> <div style="text-align: center;">Inapplicable</div> </td> <td style="padding: 5px;">           DATE<br/><br/> </td> </tr> </table> |  | PLANIMETRY<br><br><div style="text-align: center;">D. M. Brant</div> | DATE<br><br><div style="text-align: center;">21 Feb. 1962</div> | CONTOURS<br><br><div style="text-align: center;">Inapplicable</div> | DATE<br><br> |
| PLANIMETRY<br><br><div style="text-align: center;">D. M. Brant</div>  | DATE<br><br><div style="text-align: center;">21 Feb. 1962</div> |  |  |  |   |   |              |
| CONTOURS<br><br><div style="text-align: center;">Inapplicable</div>   | DATE<br><br>  |  |  |  |   |   |              |
| MANUSCRIPT DELINEATED BY (III):<br><br><div style="text-align: center;">D. M. Brant</div>   |   | DATE<br><br><div style="text-align: center;">Feb. 1962</div>   |  |  |   |   |              |
| SCRIBING BY (III):<br><br><div style="text-align: center;">C. A. Lipscomb</div>   |   | DATE<br><br><div style="text-align: center;">Aug. 1963</div>   |  |  |   |   |              |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III):<br><br><div style="text-align: center;">D. M. Brant</div>   |   | DATE<br><br><div style="text-align: center;">Aug. 1963</div>   |  |  |   |   |              |
| REMARKS:<br><br><div style="text-align: center;">FIELD EP 17 1962</div>   |   |  |  |  |   |   |              |

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

## PHOTOGRAPHS (III)

| NUMBER                | DATE          | TIME | SCALE    | STAGE OF TIDE      |
|-----------------------|---------------|------|----------|--------------------|
| 60 W 2714 & 2715      | 11 Oct. 1960  | 0903 | 1:25,000 | 0.5 ft. above MHW  |
| 61 W 954 & 955<br>(c) | 24 Sept. 1961 | 1129 | 1:15,000 | 0.5 ft. above MLLW |
| 60 W 3005 & 3006      | 17 Oct. 1960  | 0800 | 1:10,000 | 0.4 ft. above MLLW |

From Predicted Tide Tables TIDE (III)

Diurnal

|                                     | RATIO OF<br>RANGES | MEAN<br>RANGE | SPRING<br>RANGE |
|-------------------------------------|--------------------|---------------|-----------------|
| REFERENCE STATION: Honolulu, Hawaii |                    | 1.2           | 1.9             |
| SUBORDINATE STATION: Makena, Hawaii |                    | 1.5           | 2.1             |
| SUBORDINATE STATION:                |                    |               |                 |

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet-Atlantic Marine Center

DATE:  
March 1966

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

1

RECOVERED:

1

IDENTIFIED:

1

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

3

RECOVERED:

1

IDENTIFIED

1

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

5

REMARKS:

COMPILATION RECORD

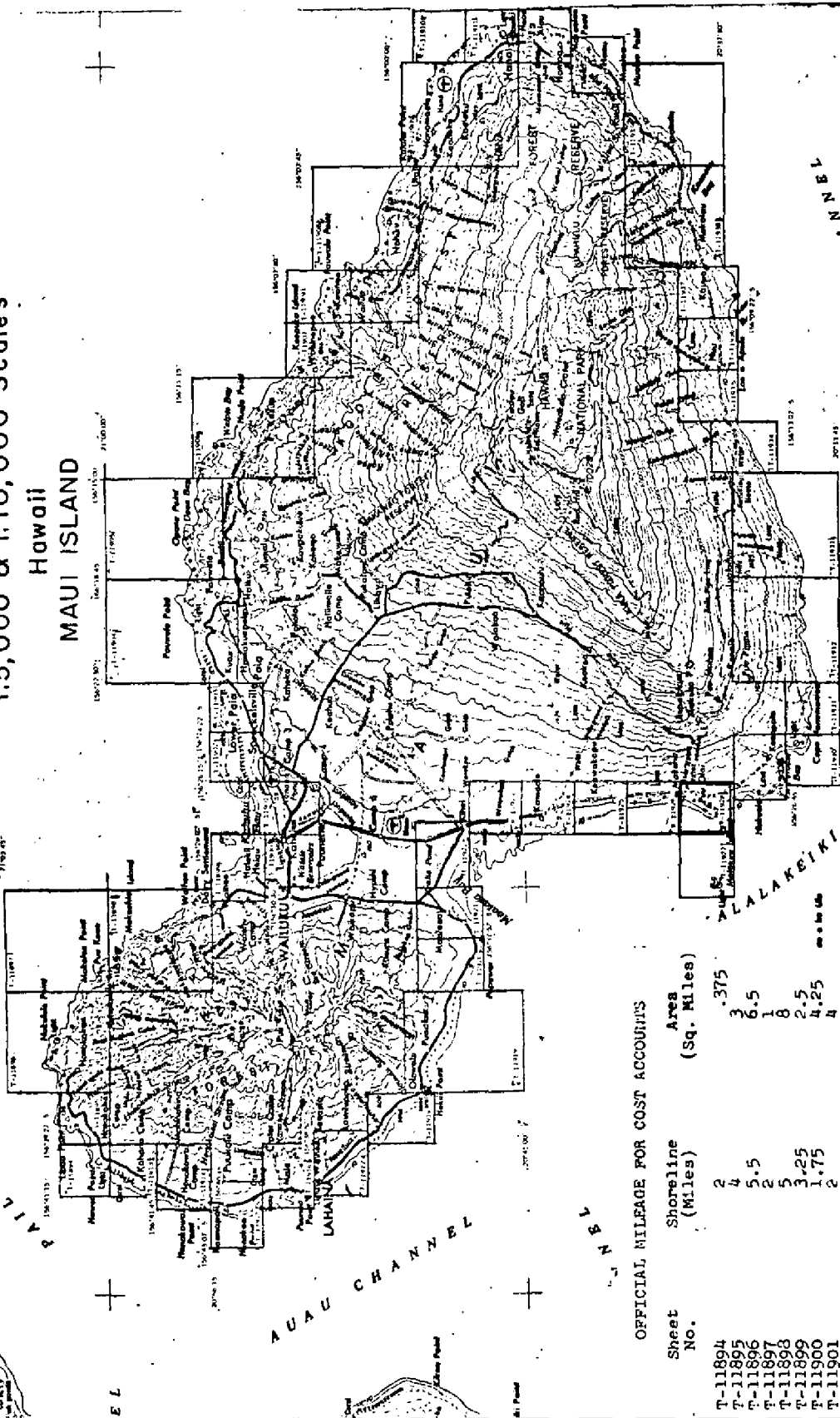
COMPLETION DATE

REMARKS

|   |           |            |
|---|-----------|------------|
| Alongshore area for hydro                   | Feb. 1962 | superseded |
| Field edit applied<br>Compilation Completed | Aug. 1963 |            |
|   |           |            |
|   |           |            |
|   |           |            |

# Planimetric Mapping 1:5,000 & 1:10,000 Scales

## Hawaii MAUI ISLAND



### OFFICIAL MILEAGE FOR COST ACCOUNTS

| Sheet No. | Shoreline (Miles) | Area (Sq. Miles) |
|-----------|-------------------|------------------|
| T-11894   | 2                 | .375             |
| T-11895   | 4                 | 3                |
| T-11896   | 5.5               | 6.5              |
| T-11897   | 2                 | 1                |
| T-11898   | 5                 | 8                |
| T-11899   | 3.25              | 2.5              |
| T-11900   | 1.75              | 4.25             |
| T-11901   | 2.5               | 4                |
| T-11902   | 2                 | 1                |
| T-11903   | 2                 | 2                |
| T-11904   | 5                 | 6                |
| T-11905   | 4.5               | 4                |
| T-11906   | 6.5               | 10               |
| T-11907   | 7                 | 7.8              |
| T-11908   | 5                 | 6                |
| T-11909   | 4.7               | 16               |
| T-11910   | .75               | .25              |
| T-11911   | 2.7               | 2                |
| T-11912   | 27                | 3                |
| T-11913   | 2.2               | 4.5              |
| T-11914   | 2.5               | 2.2              |
| T-11915   | 2.5               | 4                |
| T-11916   | 2.5               | 2.6              |
| T-11917   | 27                | 4                |
| T-11918   | 3                 | 6                |

### OFFICIAL MILEAGE FOR COST ACCOUNTS

| Sheet No. | Shoreline (Miles) | Area (Sq. Miles) |
|-----------|-------------------|------------------|
| T-11922   | 3                 | 3                |
| T-11923   | 2                 | 2.5              |
| T-11924   | 2.5               | 1.5              |
| T-11925   | 2.5               | 1                |
| T-11926   | 1                 | .04              |
| T-11927   | 3                 | 1.5              |
| T-11928   | 4.5               | 3                |
| T-11929   | 1.5               | .25              |
| T-11930   | 1.5               | 3                |
| T-11931   | 2.5               | 3                |
| T-11932   | 4.5               | 2.5              |
| T-11933   | 5                 | 12               |
| T-11934   | 2.7               | 8                |
| T-11935   | 2.5               | 3                |
| T-11936   | 5                 | 4                |
| T-11937   | 5                 | 4                |
| T-11938   | 4.5               | 6                |
| T-11939   | 2.5               | 3                |
| T-11940   | 2.5               | 2.5              |

### OFFICIAL MILEAGE FOR COST ACCOUNTS

| Sheet No. | Shoreline (Miles) | Area (Sq. Miles) |
|-----------|-------------------|------------------|
| T-11931   | 2.5               | 1.5              |
| T-11932   | 4.5               | 12               |
| T-11933   | 5                 | 8                |
| T-11934   | 2.7               | 3                |
| T-11935   | 2.5               | 4                |
| T-11936   | 5                 | 4                |
| T-11937   | 5                 | 6                |
| T-11938   | 4.5               | 3                |
| T-11939   | 2.5               | 2.5              |

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11926

Shoreline manuscript T-11926 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 in the area. The field operations preceding compilation included the recovery and identification of horizontal control and field inspection. The Kelsh compilation was at 1:5,000 scale from 1:25,000 scale photography obtained 11 October 1960. A cronaflex positive showing shoreline, alongshore features and shoreline pass points was furnished for the preparation of the hydrographer's boat sheet. 1:5,000 scale ratio prints were subsequently furnished for the location of hydrographic signals and for field edit purposes. The compilation manuscript is a vinylite sheet 1 minute 52.5 seconds in latitude by 1 minute 52.5 seconds in longitude from which the smooth sheet was drafted and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.

FIELD INSPECTION REPORT  
T-11926

Please refer to the Field Inspection Report for  
Maui Island, Hawaii which is bound with the Descriptive  
Report for T-11894.



Date\_\_\_\_\_

Date-----

MAP T-11926

PROJECT NO. PH6012

Checked by-  
\$5,000

SCALE FACTOR

[illegible]1 FT. <sup>W.C.</sup> 3048006 METER

J.C.R.

DATE 10 July, 1962

CHECKED BY: D. BRANT

DATE 13 July, 1962

COMM-DC-57843

PHOTOGRAMMETRIC PLOT REPORT  
T-11926

Please refer to the Photogrammetric Plot Report for the Western part of Maui Island which is bound with the Descriptive Report for T-11894.

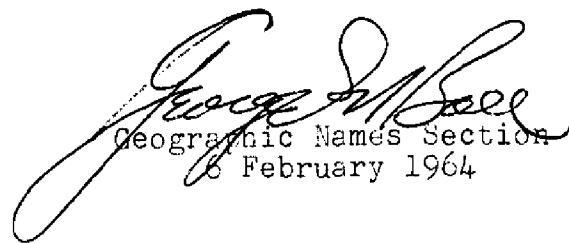
COMPILATION REPORT  
T-11926

Please refer to the Compilation Report bound with  
T-11919 which covers the compilation of Map Manuscripts  
T-11919 through T-11930.

T-11926

48. Geographic Names List

Makena  
Nahuna Point

  
Geographic Names Section  
8 February 1964

49. NOTES TO THE HYDROGRAPHER

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

|      |                                      |           |
|------|--------------------------------------|-----------|
| 2601 | Red Rag on tree                      | 60 W 2714 |
| 2602 | North cupola of two on house         | 60 W 2715 |
| 2603 | Windmill at S.W. corner of pumphouse | 60 W 2715 |
| 2604 | West corner of pillbox               | 60 W 2715 |
| 2605 | North gable of house                 | 60 W 2715 |

## PHOTOGRAMMETRIC OFFICE REVIEW

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

50

T-11926

|  |  |                                |  |  |                           |
|--|--|--------------------------------|--|--|---------------------------|
| 1. PROJECTION AND<br>GRIDS DMB   |  | 2. TITLE<br>DMB                |  | 3. MANUSCRIPT<br>NUMBER DMB  | 4. MANUSCRIPT<br>SIZE DMB |
| CONTROL<br>STATIONS  | 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER<br>OR HIGHER ACCURACY<br>DMB |                                | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN<br>THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS)<br>NONE |  |                           |
|  | 7. PHOTO HYDRO STATIONS<br>DMB   | 8. BENCH MARKS<br>DMB          | 9. PLOTTING OF SEXTANT<br>FIXES NONE   | 10. PHOTOGRAMMETRIC<br>NOT REPORT DMB                                      |                           |
|  | 11. DETAIL POINTS<br>DMB   |                                |  |  |                           |
| ALONGSHORE<br>AREAS<br>(Nautical<br>Chart<br>Data)   | 12. SHORELINE<br>DMB   | 13. LOW-WATER LINE<br>DMB      | 14. ROCKS, SHOALS, ETC.<br>DMB   | 15. BRIDGES<br>NONE  |                           |
|  | 16. AIDS TO NAVIGATION<br>NONE   | 17. LANDMARKS<br>NONE          |  | 18. OTHER ALONGSHORE PHYSICAL<br>FEATURES<br>DMB                           |                           |
|  | 19. OTHER ALONGSHORE CULTURAL FEATURES<br>DMB                              |                                |  |  |                           |
| PHYSICAL<br>FEATURES   | 20. WATER FEATURES<br>DMB  |                                | 21. NATURAL GROUND COVER<br>DMB  |  |                           |
|  | 22. PLANETABLE CONTOURS<br>NONE  |                                | 23. STEREOSCOPIC INSTRUMENT CONTOURS<br>NONE   |  |                           |
|  | 24. CONTOURS IN GENERAL<br>NONE  |                                | 25. SPOT ELEVATIONS<br>NONE  |  |                           |
|  | 26. OTHER PHYSICAL FEATURES<br>DMB   |                                |  |  |                           |
| CULTURAL<br>FEATURES   | 27. ROADS<br>DMB   | 28. BUILDINGS<br>DMB           | 29. RAILROADS<br>NONE  |  |                           |
|  | 30. OTHER CULTURAL FEATURES<br>DMB   |                                |  |  |                           |
| BOUNDARIES   | 31. BOUNDARY LINES<br>NONE   |                                | 32. PUBLIC LAND LINES<br>NONE  |  |                           |
| MISCEL-<br>LANEOUS   | 33. GEOGRAPHIC NAMES<br>DMB  |                                |  | 34. JUNCTIONS<br>DMB   |                           |
|  | 35. LEGIBILITY OF THE MANUSCRIPT<br>DMB                                    | 36. DISCREPANCY OVERLAY<br>DMB |  | 37. DESCRIPTIVE REPORT<br>DMB  |                           |
|  | 38. FIELD INSPECTION PHOTOGRAPHS<br>DMB                                    |                                | 39. FORMS<br>DMB   |  |                           |
|  | SIGNATURE OF REVIEWER<br>For: D.M. Brant <i>Joseph Steinberg</i>           |                                |  | SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT<br><i>Joseph Steinberg</i> |                           |
| 40. 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<br><i>Joseph Steinberg</i>   |  |                                | SIGNATURE OF SUPERVISOR  |  |                           |

FIELD EDIT REPORT  
T-11926

Please refer to the Field Edit Report for Maui Island, Hawaii (Strips 1 through 7) dated 17 August 1962 which is bound with the Descriptive Report for T-11894.

14.

REVIEW REPORT T-11926  
SHORELINE

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Planetable surveys No. 2679, 1:10,000 scale, made in 1904-1905 and with No. 4744, 1:5,000 scale made in 1931. Map manuscript T-11926 supersedes these prior surveys and should be used for all future nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle Makena, Hawaii; 1:24,000 scale, edition of 1954.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8681, PF-10-2-62. The shoreline of the boat sheet and manuscript are in good agreement except for the following:

The foul areas on the manuscript do not appear on the boat sheet.

Rocks at the following positions do not appear on the boat sheet.

| Latitude    | Longitude    |
|-------------|--------------|
| 20° 39' 31" | 156° 26' 48" |
| 20° 39' 31  | 156 26 49    |
| 20 39 34    | 156 26 51    |
| 20 39 37    | 156 26 44    |
| 20 39 51    | 156 26 41    |
| 20 39 52    | 156 26 40    |
| 20 40 43    | 156 26 43    |
| 20 40 12    | 156 26 49    |
| 20 40 17    | 156 26 48    |
| 20 40 19    | 156 26 47    |
| 20 40 29    | 156 26 50    |
| 20 41 03    | 156 26 51    |



15.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS (Cont.)

Two submerged rocks at the following positions do not appear on the boat sheet:

| Latitude | Longitude |
|----------|-----------|
| 20 39 37 | 156 26 48 |
| 20 39 37 | 156 26 50 |

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 4130, 1:80,000 scale, 4th edition, revised August 31, 1964.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Leo F. Beugnet  
Leo F. Beugnet

Approved by:

J. Bull  
J. Bull, CAPT., USESSA  
Director, Atlantic Marine Center

Approved by:

L. F. Woodcock  
Chief, Photogrammetry Division

Chief, Chart Division

Charles Henry  
Chief, Cartographic Branch, S.S.C.  
Photogrammetric

Chief, Operations Division

