

# 11923

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-11923

### LOCALITY

State Hawaii

General locality Maui Island

Locality Laie - Kaipukeihana

1960-1962

### CHIEF OF PARTY

H.J. Seaborg, Honolulu Dist. Office

Wm. E. Randall, Baltimore Dist. Office

### LIBRARY & ARCHIVES

DATE 1967

USCOMM-DC 5087

# 11923

5/11/60 - 1962

## DESCRIPTIVE REPORT - DATA RECORD

T-11923

PROJECT NO. (II):  PH-6012		
FIELD OFFICE (II):  Honolulu District Office		CHIEF OF PARTY  H.J. Seaborg
PHOTOGRAMMETRIC OFFICE (III):  Baltimore District Office		OFFICER-IN-CHARGE  William 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): <del>MEAN SEA LEVEL EXCEPT AS FOLLOWS:</del> 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):  WAIKOA, 1950		
LAT.:  20° 46' 44.205"	LONG.:  156° 27' 09.228"	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV):  = 161,892.72 FT.      x = 573,138.51 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.		

## DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): J. C. Lajoie		DATE: Feb. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Mean high water located by Kelsh Plotter from photography of 11 October 1960 and revised from photography of 24 September 1961.		
PROJECTION AND GRIDS RULED BY (IV): RAC		DATE 18 Nov. 1960
PROJECTION AND GRIDS CHECKED BY (IV): JDC		DATE 22 Nov. 1960
CONTROL PLOTTED BY (III): D. M. Brant		DATE 17 Mar. 1961
CONTROL CHECKED BY (III): E. L. Rolle		DATE 17 Mar. 1961
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Aerotriangulation - Washington Office		DATE Jan. 1961
STEREOSCOPIC INSTRUMENT COMPILATION (III):  E. L. Rolle	PLANIMETRY E. L. Rolle	DATE Feb. 1962
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): E. L. Rolle		DATE Apr. 1962
SCRIBING BY (III): C. A. Lipscomb		DATE Sept. 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. M. Brant		DATE Sept. 1963
REMARKS: FIELD EDIT - 1962		

FORM C&GS-181c  
(12-61)U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

#W Camera

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2709 & 2710	11 Oct. 1960	0901	1:25,000	0.5 ft. above MHW
61 W 946 thru 948	24 Sept. 1961	1128	1:15,000	0.5 ft. above MLLW

From Predicted Tide Tables

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	<del>SPRING</del> RANGE
REFERENCE STATION: Honolulu, Hawaii		1.2	1.9
SUBORDINATE STATION: Kihei, Maalaea Bay		1.6	2.3
SUBORDINATE STATION:			

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

DATE:  
Feb. 1966

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

3

RECOVERED:

3

IDENTIFIED:

2

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

0

RECOVERED:

0

IDENTIFIED:

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

4

REMARKS:

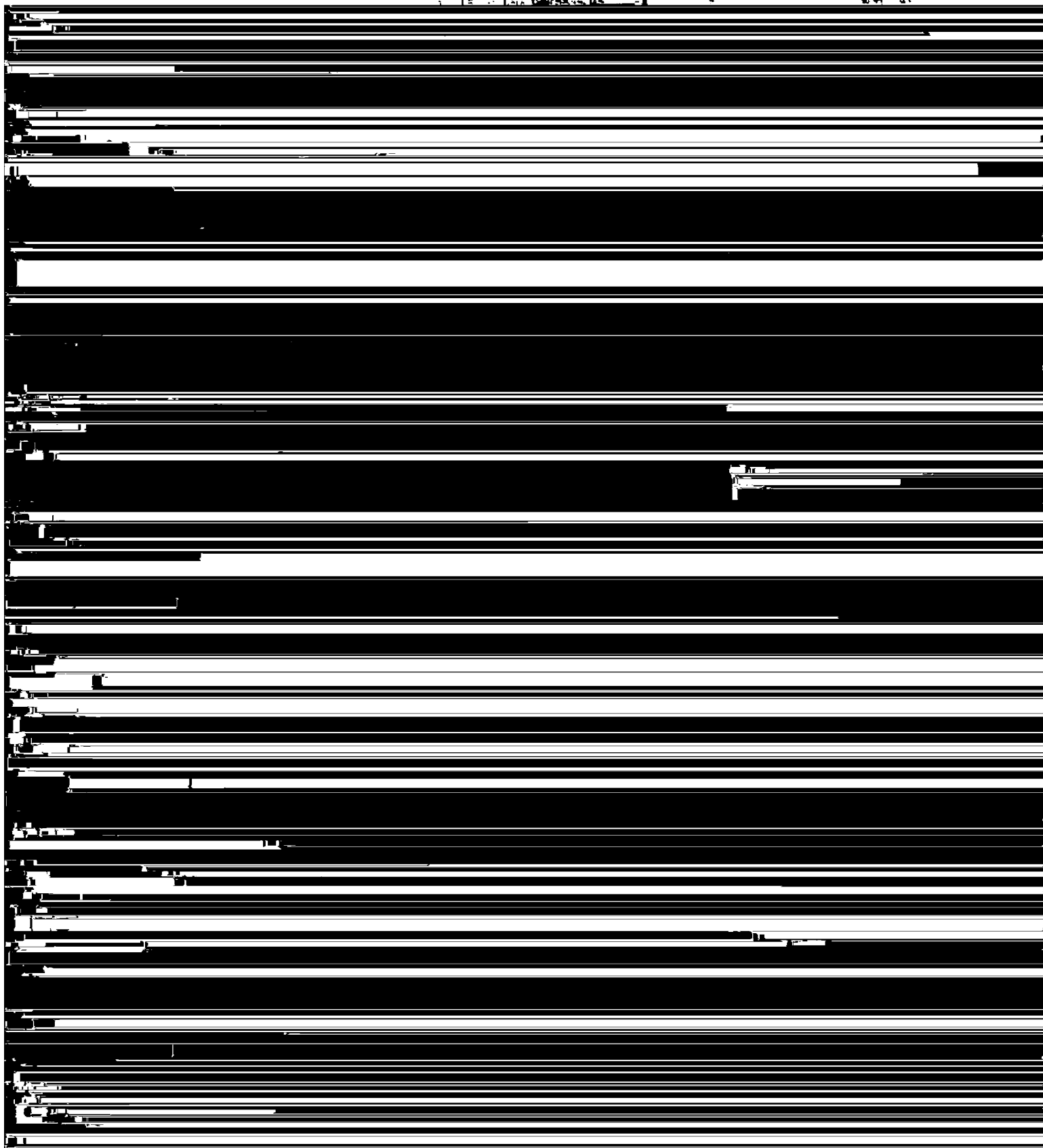
COMPILATION RECORD

COMPLETION DATE

REMARKS

Shoreline furnished for hydro	Feb. 1962	superseded
Final Compilation Completed	August 1963	

5  
(118)

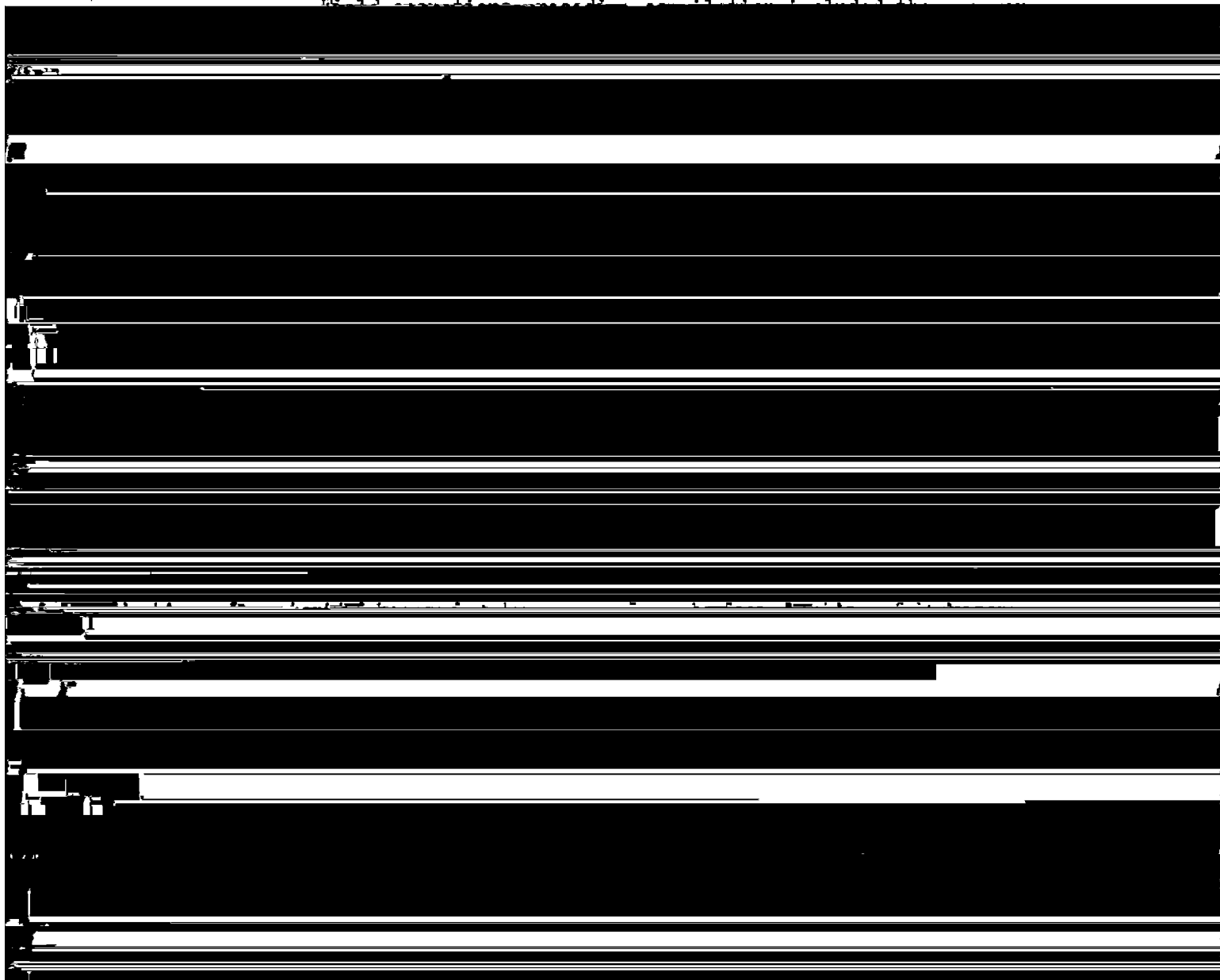


SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11923

Shoreline map T-11923 (1:5,000 scale) is one of 49 similar maps in Project PH-6012. It covers a part of the shoreline of Maui Island, Hawaii, along the easterly shore of Maalaea Bay.

This was a stereoscopic instrument project in advance of hydrographic surveys to be made in the same area. The Stereoplanigraph was used for the bridging of horizontal control and to establish adequate pass points for the setting of models on the Kelsh Plotter.

Field operations regarding compilation included the



## FIELD INSPECTION REPORT

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



COAST AND GEODETIC SURVEY  
CONTROL RECORD Plotted by

T-11923

PROJECT NO. PH-6012

SCALE OF MAP

SCALE FACTOR

Date:

Date:

Checked by \_\_\_\_\_

Date\_\_\_\_\_

[illegible]

8006

J.C.R.

DATE 12 July, 1962

CHECKED BY: D. BRANT

DATE 17 July, 1962

MM-DC-57843

PHOTOGRAMMETRIC PLOT REPORT  
T-11923

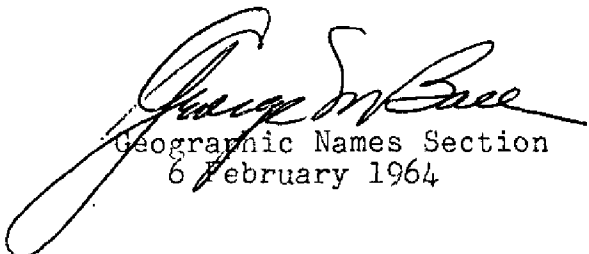
Please refer to the Photogrammetric Plot Report for the  
~~W~~<sup>e</sup>stern part of Maui Island, bound with the Descriptive Report  
for T-11894.

COMPILATION REPORT  
T-11923

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

48. Geographic Names List

Kaipukaihina  
Kalepolepo  
Laie  
Maalaea Bay

  
Geographic Names Section  
6 February 1964

49. NOTES TO THE HYDROGRAPHER

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

2301	Northwest corner of park pavillion	60 W 2708
2302	South gable, white roof house	60 W 2710
2303	Rag on bush	60 W 2710
2304	Stake at north side of path	60 W 2710

FORM 182 (8-51)		PHOTOGRAMMETRIC OFFICE REVIEW		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
50		T- 11923			
1. PROJECTION AND DS  DMB		2. TITLE  DMB		3. MANUSCRIPT NUMBERS  DMB	
				4. MANUSCRIPT SIZE  DMB	
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY  DMB		6. RECCVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS)  NONE		
	7. PHOTO HYDRO STATIONS  DMB		8. BENCH MARKS  NONE		9. PLOTTING OF SEXTANT FIXES  NONE
	10. PHOTOGRAMMETRIC PLOT REPORT  DMB				
	11. DETAIL POINTS  DMB				
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE  DMB		13. LOW-WATER LINE  NONE		14. ROCKS, SHOALS, ETC.  DMB
	15. BRIDGES  DMB				
	16. AIDS TO NAVIGATION  DMB		17. LANDMARKS  DMB		18. OTHER ALONGSHORE PHYSICAL FEATURES  DMB
	19. OTHER ALONGSHORE CULTURAL FEATURES  DMB				
PHYSICAL FEATURES	20. WATER FEATURES  DMB		21. NATURAL GROUND COVER  DMB		
	22. PLANETABLE CONTOURS  NONE		23. STEREOSCOPIC INSTRUMENT CONTOURS  NONE		
	24. CONTOURS IN GENERAL  NONE		25. SPOT ELEVATIONS  NONE		
	26. OTHER PHYSICAL FEATURES  DMB				
CULTURAL FEATURES	27. ROADS  DMB		28. BUILDINGS  DMB		29. RAILROADS  NONE
	30. OTHER CULTURAL FEATURES  DMB				
BOUNDARIES	31. BOUNDARY LINES  NONE		32. PUBLIC LAND LINES  NONE		
MISCEL- LANEOUS	33. GEOGRAPHIC NAMES  DMB		34. JUNCTIONS  DMB		
	35. LEGIBILITY OF THE MANUSCRIPT  DMB		36. DISCREPANCY OVERLAY  DMB		37. DESCRIPTIVE REPORT  DMB
	38. FIELD INSPECTION PHOTOGRAPHS  DMB		39. FORMS  DMB		
	SIGNATURE OF REVIEWER <i>Jack H. [unclear]</i> SIGNATURE OF SUPERVISOR/REVIEW SECTION OR UNIT				

FIELD EDIT REPORT  
T-11923

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

REVIEW REPORT T-11923  
SHORELINE

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Planetable survey No. 2462, 1:10,000 scale, made in 1900 and approved February 1, 1901. The shallow and foul areas near latitude  $20^{\circ} 45' 30''$  do not appear on the planetable survey.

This manuscript (T-11923) supersedes the planetable survey and should be used for all nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle Maalaea, Hawaii, 1:24,000 scale, edition of 1954. The small islets near latitudes  $20^{\circ} 46' 00''$  and  $20^{\circ} 46' 25''$  are not visible on any of the photography of the area.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet SU-5-4-61. The shoreline for the boat sheet was obtained directly from a cronaflex copy of the Advance Map Manuscript.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4104, 1:10,000 scale, 4th edition, dated June 29, 1964. The manuscript and the chart are in good agreement.



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. C. Bull  
J. C. Bull, CAPT.  
Atlantic Marine Center

Approved by:

L. F. Woodcock  
Chief, Photogrammetry Division

Charles Thurn  
Chief, Cartographic Branch  
Photogrammetric 66 B

Chief, Chart Division

Chief, Operations Division

