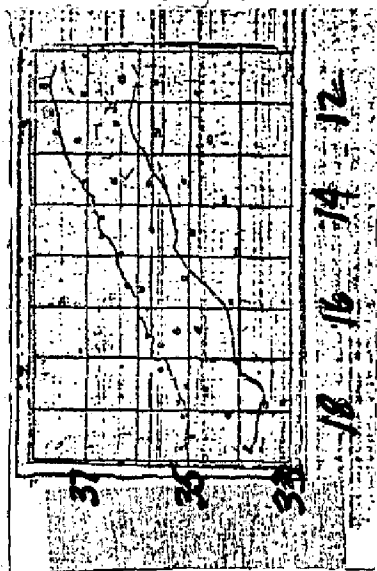


11930



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-11930

LOCALITY

State Hawaii

General locality Maui Island

Locality Hanamanioa

~~1963~~ 1960-1962

CHIEF OF PARTY

H. J. Seaborg - Honolulu District Office

W. E. Randall - Baltimore District Office

LIBRARY & ARCHIVES

DATE 1967

USCOMM-DC 5087

5/11/60 - 7/3/63

DESCRIPTIVE REPORT - DATA RECORD

T -11930

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 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): 1		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): HANAMANIOA POINT LIGHTHOUSE (USLHS), 1931 - 1950		
LAT.: 20° 35' 10.976"	LONG.: 156° 24' 53.467"	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): Y = 91,971.61 FT X = 586,129.49 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 (III):		DATE:
J. C. Lajoye		Nov. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Mean high water line located by Kelsh Plotter using panchromatic photography of 11 October 1960 and 19 January 1962.		
PROJECTION AND GRIDS RULED BY (IV):		DATE
RAC		21 Nov. 1960
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
JDC		22 Nov. 1960
CONTROL PLOTTED BY (III):		DATE
D. M. Brant		22 Mar. 1961
CONTROL CHECKED BY (III):		DATE
E. L. Rolle		22 Mar. 1961
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
Aerotriangulation - Washington Office		Jan. 1961
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	D. M. Brant	Mar. 1962
D. M. Brant	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
D. M. Brant		Mar. 1962
SCRIBING BY (III):		DATE
C. A. Liscomb		Nov. 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
D. M. Brant		Nov. 1963
REMARKS:		
FIELD EDIT 1962		

FORM C&GS-181c
(3-66)U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
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 2719	11 Oct. 1960	0905	1:25,000	0.5 ft. above MHW
62 W 2022	19 Jan. 1962	1255	1:15,000	0.5 ft. above MLLW

From Predicted tide tables

TIDE (III)

Diurnal

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Honolulu, Hawaii		1.2	1.9
SUBORDINATE STATION:	Makena		1.5	2.1
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet-Atlantic Marine Center		DATE: Mar. 1966		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):	1	RECOVERED:	1	IDENTIFIED:
				1
NUMBER OF BM(S) SEARCHED FOR (III):	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

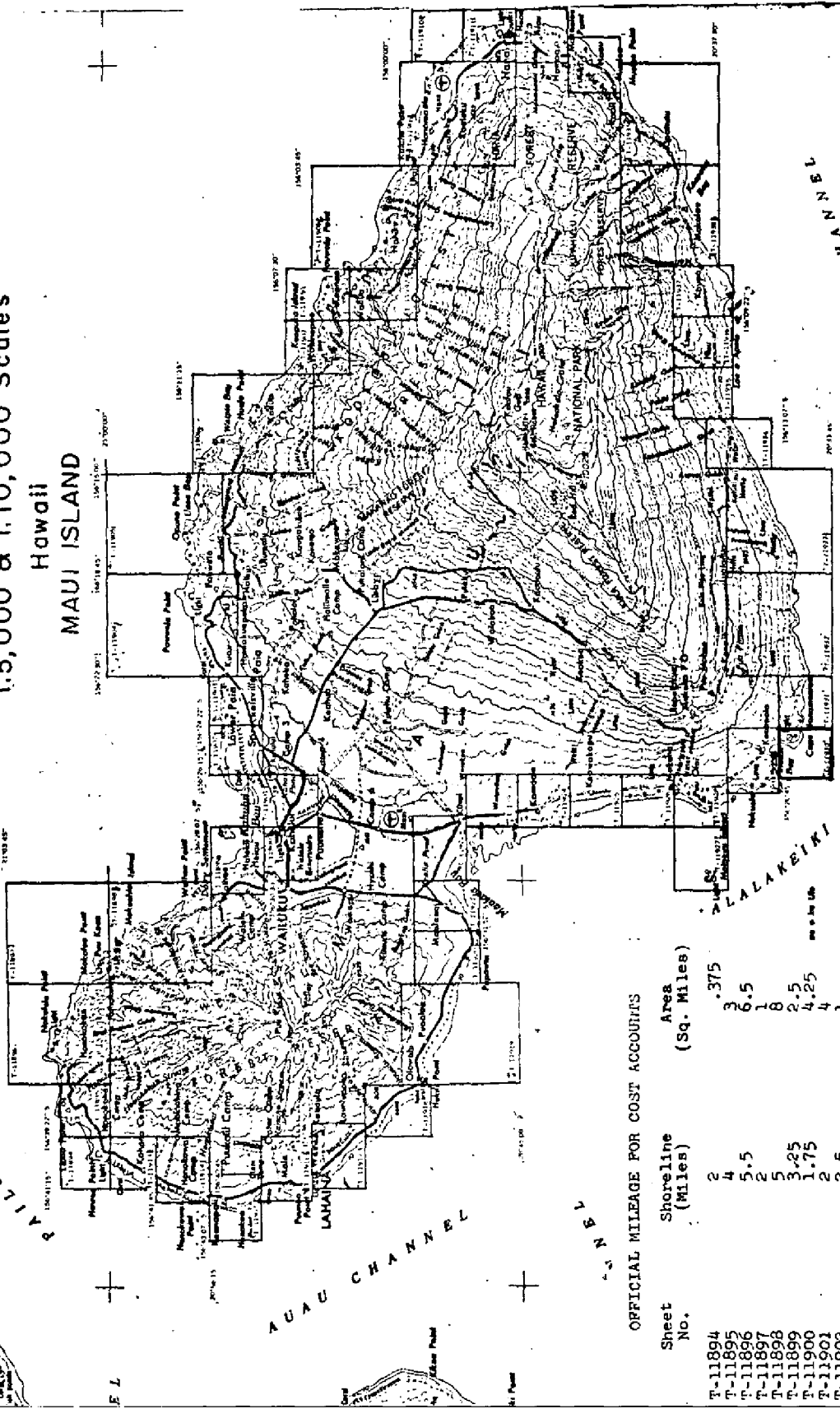
COMPLETION DATE

REMARKS

Alongshore area for hydro	Mar. 13, 1962	superseded
Shoreline revised	Mar. 22, 1962	
Compilation Completed	Nov. 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	4
T-11902	2.5	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	16
T-11909	4.7	2.25
T-11910	2.7	2
T-11911	27	3
T-11912	2.2	3.5
T-11913	2.5	2.2
T-11914	2.5	4
T-11915	2.5	4
T-11916	2.5	2.6
T-11917	27	4

UNOFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11922	3	3
T-11923	2	3
T-11924	2.5	2.5
T-11925	2.5	1.5
T-11926	2.5	1
T-11927	1	.04
T-11928	3	1.5
T-11929	4.5	3
T-11930	1.5	.25
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	6
T-11939	2.5	3
T-11940	2.5	2

6.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11930

Shoreline manuscript T-11930 is one of forty-nine similar maps in this project and covers a part of the coastline of Maui Island. This was a Kelsh project in advance of hydrographic surveys in the area. The field operations preceding compilation included 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 and 19 January 1962. A cronaflex positive showing shoreline, alongshore features and shoreline pass points was furnished for the preparation of the hydrographer's boat sheet along with 1:5,000 scale ratio prints for the location of hydro 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-11930

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

PHOTOGRAMMETRIC PLOT REPORT
T-11930

Please refer to the Photogrammetric Plot Report for the western half of Maui Island, dated March 1961, which is bound with the Descriptive Report for T-11894.

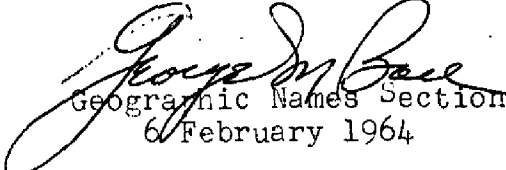
10.

COMPILATION REPORT
T-11930

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

48. Geographic Names List

Alalakeiki Channel
Cape Hanamanioa


Geographic Names Section
6 February 1964

49. NOTES TO THE HYDROGRAPHER

The positions of four hydrographic stations, identified by the field inspection party, were verified during final compilation.

Leg	White wash
Opi	Small orange tripod
Boy	Small white banner
Sal	Small white banner

PHOTOGRAMMETRIC OFFICE REVIEW

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

12.

T. 11930

1. PROJECTION AND GRIDS DMB		2. TITLE DMB		3. MANUSCRIPT NUMBERS DMB K		4. MANUSCRIPT SIZE DMB		
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY DMB			6. RECOVERABLE 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 DMB		14. ROCKS, SHOALS, ETC. DMB		15. BRIDGES NONE	
	16. AIDS TO NAVIGATION DMB		17. LANDMARKS NONE			18. OTHER ALONGSHORE PHYSICAL FEATURES DMB		
	19. OTHER ALONGSHORE CULTURAL FEATURES DMB							
PHYSICAL FEATURES	20. WATER FEATURES DMB				21. NATURAL GROUND COVER NONE			
	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			
MISCELLANEOUS	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 For: D. M. Brant <i>Joseph Steinberg</i>				SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT <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 For: D. M. Brant <i>Joseph Steinberg</i>				SIGNATURE OF SUPERVISOR <i>Joseph Steinberg</i>				

USE REVERSE SIDE FOR REMARKS

USCOMM-DC 26863-P61

FIELD EDIT REPORT
T-11930

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

REVIEW REPORT T-11930
SHORELINE

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with copies of Registered Survey No. 2679, 1:10,000 scale, approved May 10, 1905 and No. 3276, 1:20,000 scale, approved March 30, 1914.

There is a major change in the shoreline along the westerly coast of Cape Hanamanioa. Refer to the comparison print.

Shoreline manuscript T-11930 supersedes the two prior surveys listed above and should be used for all future nautical chart construction in the area.

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. The ~~two~~ maps are in good agreement considering the difference in scales and the generalization of the shoreline on the U.S.G.S. quadrangle.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-8686"B" (PF-5-3-62) and H-8718 (PF-10-1-63). A rock at latitude 20° 35' 05" longitude 156° 24' 39" does not appear on the boat sheets although it also appears on chart 4130 and the U.S.G.S. quadrangle. A study of the color photography, which covers the area at 1:10,000 scale, failed to prove the rock's actual existence or non-existence. See Item 66.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Future surveys should check for the existence of the rock at the position given in item 64.

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

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

Approved by:

L. F. Woodcock
Chief, Photogrammetry Division

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

Chief, Chart Division

Chief, Operations Division

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT TWO

BALTIMORE, MARYLAND

23 Jan.

1961

I recommend that the following objects which ~~have~~ *(have not)* been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by

D. M. Brant

J. C. Bull, CAPT., USESSA, Director, Atlantic Marine Chief of Party.

Contents

This form shall be prepared in accordance with Hydrographic Manual, Publication 20-2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

