

11989

Diag. Cht. No. 4116.

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-6012 Office No. T-11989

LOCALITY

State Hawaii

General locality Maui Island

Locality Honua

19 60-63

CHIEF OF PARTY

H.J.Seaborg, Honolulu District Off.
W.E.Randall, Balto. District Off.

LIBRARY & ARCHIVES

DATE 1967

USCOMM-DC 37022-P68

11989

DESCRIPTIVE REPORT - DATA RECORD

T -11989

PROJECT NO. (II):

PH 6012

FIELD OFFICE (III):

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):

1:5,000

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): MSL

MEAN SEA LEVEL EXCEPT AS FOLLOWS:

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):

KEAKAAMUNA 2, 1950

LAT.:

20° 43' 46.303"

LONG.:

156° 00' 37.279"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

Y = 137,943.79

X = 730,605.51

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):		DATE:
J. C. Lajoie		Feb. 1962
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Mean high water line located by Kelsh Plotter from photography of October 1960 supplemented by 1962 color photography		
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		3-19-62
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
A. E. Roundtree		3-20-62
CONTROL PLOTTED BY (III):		DATE
L. A. Senasack		3-11-62
CONTROL CHECKED BY (III):		DATE
L. O. Neterer		3-11-62
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
Aerotriangulation - Washington Office		Feb. 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	R. F. Carr	6-62
J. D. Mc Evoy	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
J. D. Mc Evoy		6-62
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
D. M. Brant		6-62
REMARKS: FIELD EDIT - Refer to page 13 of this report		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2377 & 2378	5 Oct. 1960	1023	1:15,000	0.5 Ft above MLLW
60 W 2255 & 2256	26 Jan. 1962	0931	1:15,000	1.1 Ft " "
62 W(C) 2264 thru 2266	26 Jan. 1962	0942	1:10,000	1.0 Ft " "
62 W(C) 2292 thru 2294	26 Jan. 1962	0950	1:10,000	1.0 Ft " "

Tides computed from Predicted Tide Tables.

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: <u>Honolulu, Hawaii</u>		1.2	1.9
SUBORDINATE STATION: <u>Hana, Hawaii</u>		1.8	2.5
SUBORDINATE STATION:			

~~WASHINGTON OFFICE REVIEW BY (IV):~~ ^{FINAL} Leo P. Beugnet, Norfolk Regional Office

DATE: Nov. 1965

PROOF EDIT BY (IV):

DATE: Dec. 1965

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

0

RECOVERED:

0

IDENTIFIED:

0

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):

6

REMARKS:

4.

COMPILATION RECORD

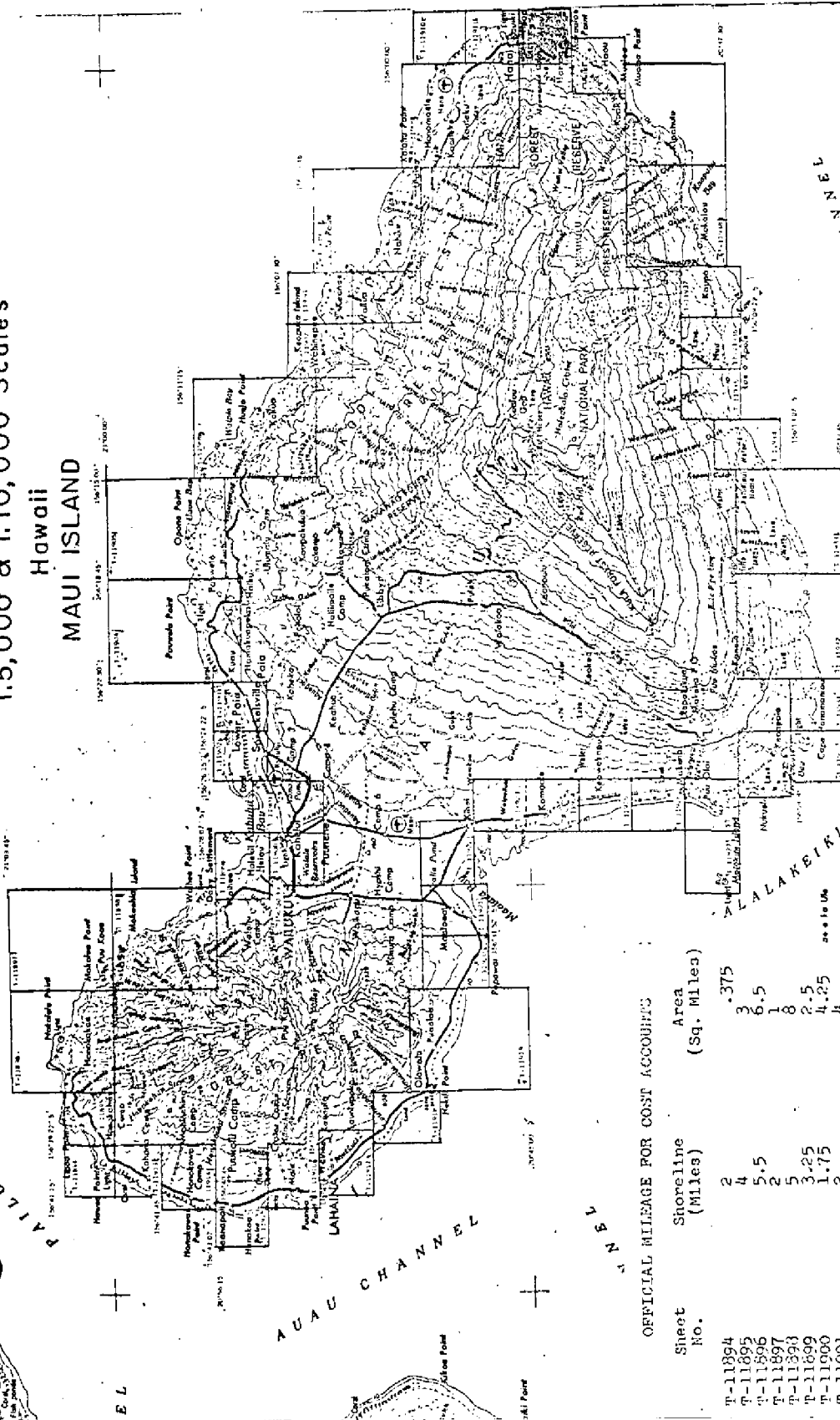
COMPLETION DATE

REMARKS

Alongshore area for hydro	June 1962	superseded
Final Compilation	March 1964	

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	20
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	3
T-11918	4	6
T-11919	4	6

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11920	3	3
T-11921	2	2.5
T-11922	2.5	2.5
T-11923	2.5	1.5
T-11924	2.5	1
T-11925	1	.04
T-11926	3	1.5
T-11927	4.5	3
T-11928	1.5	.25
T-11929	1.5	
T-11930		

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
T-11940	2.5	2

CHANNEL

AUUA CHANNEL

LAHAINA

HALEAKALA

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11989

Shoreline manuscript T-11989 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 in October 1960. 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 55 seconds in latitude by 2 minutes 50 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-11989

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

SCALE FACTOR

1 FT. = 3048006 METER	COMPUTED BY:	DATE	CHECKED BY:	DATE	COMM-DC-57843
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COMPILATION REPORT T-11989

For additional data pertaining to this survey please refer to the Field Inspection Report for Maui Island 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, fixed aids to navigation or aeronautical aids within the compilation limits of this survey.

38. CONTROL FOR FUTURE SURVEYS

No control for future surveys was located during compilation.

39. JUNCTIONS

Satisfactory junctions were made with T-11911 on the north and with T-11990 on the south. There is no contemporary survey on the west; the Pacific Ocean is on the east.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Hana, Hawaii quadrangle, 1:24,000 scale, edition of 1957.

47. COMPARISON WITH NAUTICAL CHARTS

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

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

For: *Joseph Steinberg*
Donald M. Brant
Carto. (Photo.)

Approved:

for *S. Hollis*
J. Bull
Capt. C&GS
Norfolk Regional Office

T-11989

48. Geographic Names List:

The Geographic names listed below were furnished by the Washington Office on U.S.G.S. Hana, Hawaii 7½ minute quadrangle, 1:24,000 scale, edition of 1957.

Alenuihaha Channel *

Alau Island

Hamo

Haneoo Gulch

Kokuula Point

Ka Iwi O Pele

Lehoula Beach

Mokae

Mokae Cove

Mokae Landing

Moomooiki Gulch

Moomoonui Gulch

Pacific Ocean

Puu Hele

Waipauma Point

A. J. Wright

ALL NAMES APPROVED BY
GEOGRAPHIC NAMES SECTION
UNLESS OTHERWISE MARKED.

** Name not used on this sheet*

Ph-6012
Maul Island, Hawaii
T-11989 and T-11990

49. NOTES FOR THE HYDROGRAPHER

A set of ratio photographs (taken in 1962) has been prepared for use during photo-hydro support.

Color photography was used as an aid in interpreting offshore details and foul lines.

The positions of the following hydrographic signal sites, identified on field inspection photographs, have been established photogrammetrically for the following surveys:

<u>Signal No.</u>	<u>Description</u>	<u>Photo. No.</u>
T-11989		
8901	Rag on palm	2377
8902	Rag on lauhala tree	2377
8903	Rag on small kamane tree	2377
8904	Rag on bush, W. side of path	2377
8905	Rag on iron wood tree	2377
8906	Rag on lone lauhala tree	2377
T-11990		
9001	West gable, aluminum roof cottage	2378
9002	Flag, S. E. corner of rock pile	2378
9003	S. E. Corner GAY house	2378
9004	Center of round rock	2377
3904	West gable, small brown, green roof house	2380

PHOTOGRAMMETRIC OFFICE REVIEW

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

50		T-11989		12	
1. PROJECTION AND GRIDS LFB		2. TITLE LFB		3. MANUSCRIPT NUMBERS LFB	
4. MANUSCRIPT SIZE LFB		5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY LFB		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) None	
7. PHOTO HYDRO STATIONS None		8. BENCH MARKS None		9. PLOTTING OF SEXTANT FIXES None	
10. PHOTOGRAMMETRIC PLOT REPORT LFB		11. DETAIL POINTS LFB			
12. SHORELINE LFB		13. LOW-WATER LINE LFB		14. ROCKS, SHOALS, ETC. LFB	
15. BRIDGES None		16. AIDS TO NAVIGATION None		17. LANDMARKS None	
18. OTHER ALONGSHORE PHYSICAL FEATURES LFB		19. OTHER ALONGSHORE CULTURAL FEATURES LFB			
20. WATER FEATURES LFB		21. NATURAL GROUND COVER LFB			
22. PLANETABLE CONTOURS None		23. STEREOSCOPIC INSTRUMENT CONTOURS None			
24. CONTOURS IN GENERAL None		25. SPOT ELEVATIONS			
26. OTHER PHYSICAL FEATURES LFB		27. ROADS LFB		28. BUILDINGS LFB	
29. RAILROADS None		30. OTHER CULTURAL FEATURES LFB			
31. BOUNDARY LINES None		32. PUBLIC LAND LINES None			
33. GEOGRAPHIC NAMES LFB		34. JUNCTIONS LFB			
35. LEGIBILITY OF THE MANUSCRIPT LFB		36. DISCREPANCY OVERLAY LFB		37. DESCRIPTIVE REPORT LFB	
38. FIELD INSPECTION PHOTOGRAPHS LFB		39. FORMS LFB			
SIGNATURE OF REVIEWER Leo F. Beugnot		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT Joseph Steinberg			
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 Leo F. Beugnot		SIGNATURE OF SUPERVISOR Joseph Steinberg			

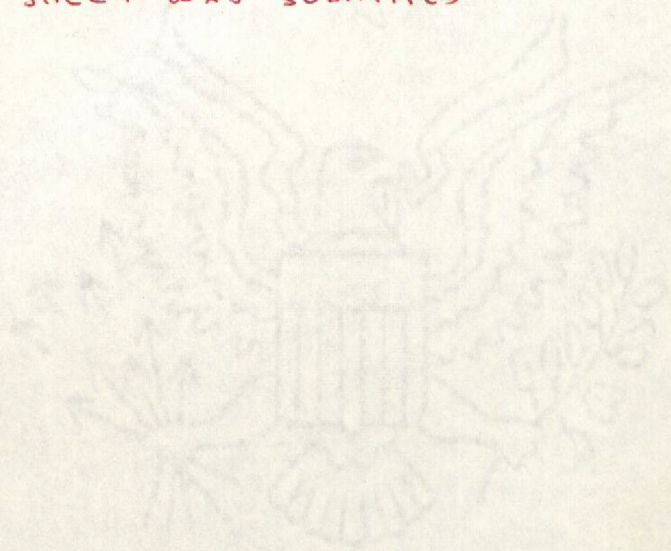
* Refer to page 13 USE REVERSE SIDE FOR REMARKS

FIELD EDIT REPORT
T-11989

No formal Field Edit Report was received.

Other maps in the project were field
edited in 1963

No FIELD EDIT SHEET WAS SUBMITTED



14.

REVIEW REPORT T-11989
SHORELINE

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A visual comparison was made with Registered Planetable survey No. 3274, 1:20,000 scale dated March 30, 1914.

Shoreline manuscript T-11989 supersedes the 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. Hana, Hawaii quadrangle, 1:24,000 scale, edition of 1957.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

* Comparison was made with a copy of boat sheet H-8719-PF-10-2-63 sheet CC. The differences in the high water line of the boat sheet and manuscript are shown on the Comparison Print.

65. COMPARISON WITH NAUTICAL CHARTS

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 instructions and meets the National Standards of Map Accuracy.

x Note: A "Notes to Verifier" page was submitted to the Hydro Branch, 8/2/66. Refer to page 16 of this report.

Reviewed by:

Leo F. Bengt

Approved by:

J. Hollis

J. Bull, Director, Atlantic Marine Center

Approved by:

Charles Hanna

Chief, Cartographic Branch

L. F. Woodward

Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Branch

NOTES TO VERIFIER
H-8719
PH-6012 (T-11989)
Maui Island, Hawaii

Survey

Project H-8719 (PF 10-2-63) was compared with T-11989 during final review of the shoreline survey. Local datum differences (up ⁴4.0 mm as measured on the manuscript) exist between the surveys in shoreline and alongshore rocks. Boat sheet shoreline has been traced, by the final reviewer, on the Comparison Print for T-11989.

The Descriptive Report for T-11989 contains no information indicating that changes of the magnitude described in the preceding paragraph were applied to the shoreline survey subsequent to furnishing a copy of the preliminary map for use in hydro support. ~~application of field e~~

Application of field edit changes is accounted for in the Photogrammetric Office Review Report; however, no formal field edit report was submitted.

*J. H. Blankenhorn
W.O. Review Unit*

