

11932

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-11932

LOCALITY

State Hawaii

General locality Maui Island

Locality Kanaloa Point

1960 — 1963

CHIEF OF PARTY

H. J. Seaborg, Honolulu District Office

W. E. Randall, Baltimore District Office

LIBRARY & ARCHIVES

DATE 1967

USCOMM-DC 5087

11932

10-1-67

11-10-63

DESCRIPTIVE REPORT - DATA RECORD

T-11932

PROJECT NO. (II):

PH-6012
(21034)

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):

1:10,000

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):

HOKUKANO (HGS) (HTS), 1950

LAT.:

20° 36' 34.825"

LONG.:

156° 19' 56.285"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

Hawaii

ZONE

2

Y = 100,481.87 FT

X = 614,347.52 FT

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: Nov. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Mean High Water Line was located by Kelsh plotter from Field notes on 1960 photography supplemented by 1962 panchromatic and color photography.		
PROJECTION AND GRIDS RULED BY (IV): R.A.C.		DATE 12/1/60
PROJECTION AND GRIDS CHECKED BY (IV): R.A.C.		DATE 12/1/60
CONTROL PLOTTED BY (III): L. A. Senasack		DATE 2/26/62
CONTROL CHECKED BY (III): L. O. Neterer		DATE 2/26/62
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): R. E. Fuechsel		DATE 2/62
STEREOSCOPIC INSTRUMENT COMPILATION (III): D. M. Brant	PLANIMETRY D. M. Brant	DATE 3/62
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): C. A. Lipscomb		DATE 4/62
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. M. Brant		DATE 12/63
REMARKS: Field Edited - 1963		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60-W-2456 2457 2458	8 Oct 1960	09:07	1:25,000	1.5 above MLLW
60-W-2287 2288 2289	2 Oct 1960	11:37	1:25,000	1.5 above MLLW
60-W-(C)3434-3436	29 Oct 1960	08:42	1:10,000	1.2 above MLLW
61-W-(C)1117 - 1118	25 Sept 1961	09:59	1:10,000	0.2 above MLLW
61-W-(C)1103 - 1108	25 Sept 1961	09:52	1:10,000	0.3 above MLLW
60-W-(C)3375	27 Oct 1960	08:50	1:10,000	0.6 above MHW
60-W-(C)3426	29 Oct 1960	08:37	1:10,000	1.1 above MLLW

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING 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, Norfolk Regional Office

DATE:
Oct. 1965

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

3

RECOVERED:

3

IDENTIFIED:

1

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

None

RECOVERED:

None

IDENTIFIED

None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

8

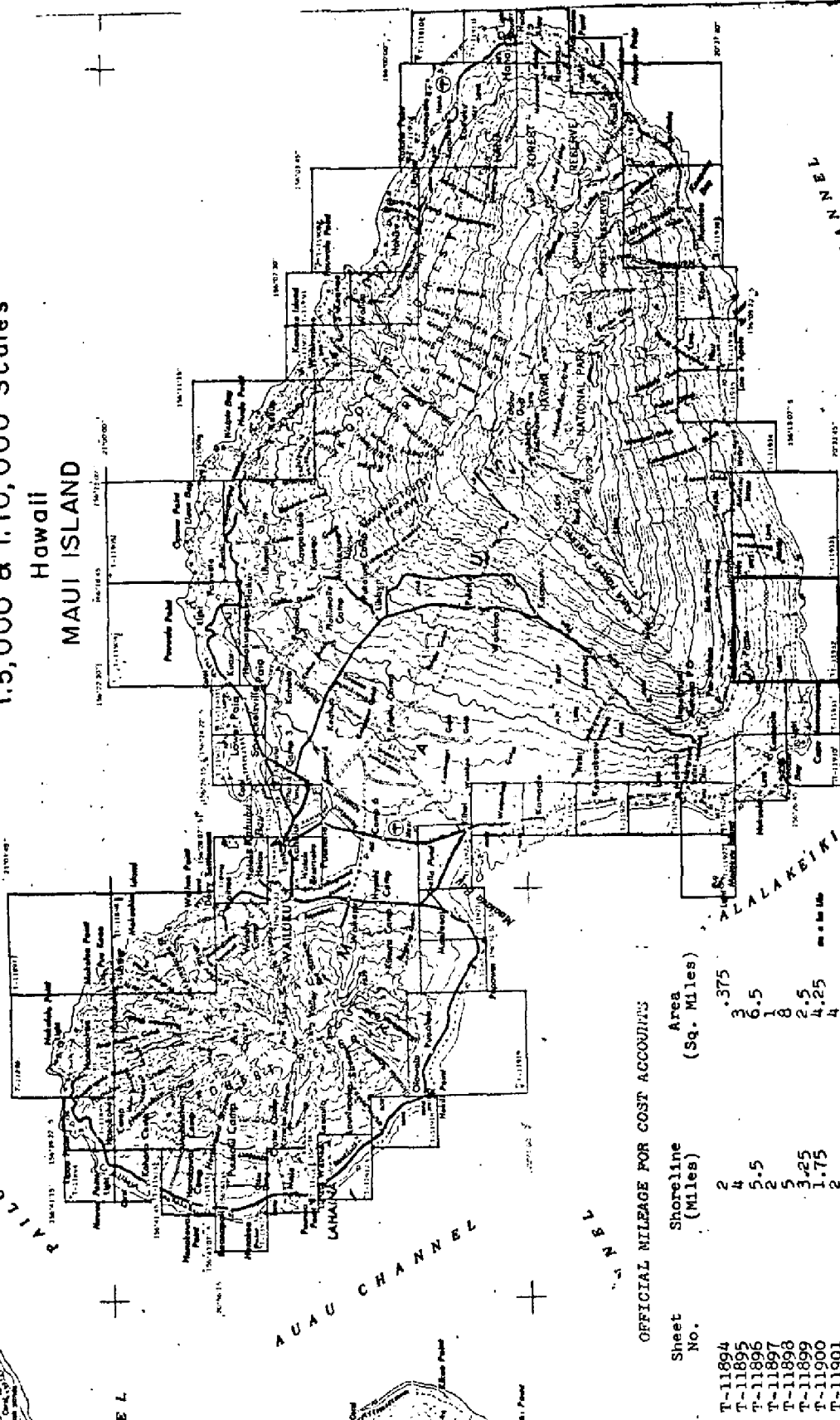
REMARKS:

*Stages of tide computed from Predicted Tide Tables.

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	March 1962	superseded
Compilation completed	December 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	3.375
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	6
T-11909	4.7	16
T-11910	7.75	.25
T-11911	2.7	2
T-11912	2.7	3
T-11913	2.2	4.5
T-11914	2.2	2.2
T-11915	2.5	4.2
T-11916	2.5	4
T-11917	2.7	2.6

OFFICIAL 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	.05

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	5	4
T-11939	4.5	3

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11932

Shoreline manuscript T-11932 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 1:10,000 from 1:25,000 scale photography obtained on the 2nd and 8th of October 1960. A cronaflex positive showing shoreline, alongshore detail and shoreline pass points was furnished for preparation of the hydrographer's boat sheet and the location of hydrographic signals. 1:10,000 scale ratio prints were furnished for hydro support and field edit purposes. The compilation manuscript is a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 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-11932

Please refer to the Field Inspection Report for Maui
Island, Hawaii bound with T-11931.

PHOTOGRAMMETRIC PLOT REPORT
T-11932

Please refer to the Photogrammetric Plot Report,
Maui Island (East Half) Hawaii, dated February 1962,
which is bound with the Descriptive Report for T-11931.

10.

COMPILATION REPORT T-11932

ITEMS 31 THRU 36

Please refer to the Compilation Report for T-11931.

37. LANDMARKS AND AIDS

There are no landmarks, fixed aids to navigation or aeronautical aids within the limits of this map.

38. CONTROL FOR FUTURE SURVEYS

No control for future surveys was established.

39. JUNCTIONS

Satisfactory junctions were made with T-11931 on the west and with T-11933 on the east. There is no contemporary survey on the north; the Pacific Ocean is on the south.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to Photogrammetric Plot Report bound with T-11894.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Makena, Hawaii 7½ minute quadrangle, 1:24,000 scale, edition of 1954.

47. COMPARISON WITH NAUTICAL CHARTS

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

11.

ITEMS TO BE APPLIED TO CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

Joseph Steinberg
For: Donald M. Brant

Approved:

J. Bull
J. Bull
Capt. C&GS
Norfolk Regional Officer

GEOGRAPHIC NAMES

Ph 6012

T-11931

T-11932

Alalakeiki Channel

Cape Hanamaioa

Cape Kinau

Halua Pond

Hanamanioa Light

Kalaelo Point

** Kalulu Point

* Kamanamana Point

Kamahena

Kamahena Point

** Kanaloa Point

Kauhioaiakini Pond

Keawakapu

Keonecio

Kinau

La Perouse Bay

Makena

Maluaka Point

Nahuna

* Pohakueaea Point

Pohaku Paea

Puu o Kanaloa

Puu Olai

Names on Makena Quadrangle
not separated by T number.

Frank W. Smith
All Names Approved
by Office of Geography

Approved
A. J. Wright
1-20-66

* Names appear on T-11931

** Names appear on T-11932

49. NOTES TO THE HYDROGRAPHER

The following photo-hydro signal sites, identified by the field inspection party, were located during compilation. They are shown on the copy of the manuscript furnished to the hydrographic party by number and description.

3201	Pinnacle rock (not flagged)	60 W 2287
3202	Flag on rock at path intersection	60 W 2288
3203	Rock, 2nd inshore of four	60 W 2288
3204	Corner of wall at water trough	60 W 2288
3205	Flag on wall at road	60 W 2288
3206	Rag on rock outcrop	60 W 2288
3207	Rag at west end of water trough	60 W 2289
3208	Flag at N.W. corner of old foundation	60 W 2289

PHOTOGRAMMETRIC OFFICE REVIEW

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

T-11932

1. PROJECTION AND GRIDS 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. 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 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 DMBRANT <i>Joseph Steinberg</i>			SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT <i>Joseph Steinberg</i>	
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			SIGNATURE OF SUPERVISOR		

USE REVERSE SIDE FOR REMARKS FIELD EDITED - NO
CORRECTIONS REQUIRED SGO

USCOMM-DC 28392-P01

FIELD EDIT REPORT
T-11932

There is no formal Field Edit Report for this manuscript.
Please refer to the letter which is the following page of this
report.

Memorandum

244-115

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

FROM : Commanding Officer
USC&GSS Pathfinder
705 Federal Office Building
Seattle, Washington

SUBJECT: Field Edit Report - OPR-419

DATE: 8 July 1963

During the first half of the 1963 field season, Pathfinder personnel field edited the manuscripts 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. Those manuscripts with 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 boat sheets now in Washington for photographing.

T-11905	Edited - No changes
T-11906	Edited - Will be forwarded later
T-11907	Edited - Will be forwarded later
T-11908	Edited - Will be forwarded later
T-11909	Edited - Will be forwarded later
T-11910	Edited - Will be forwarded later
T-11911	Edited - Will be forwarded later
T-11930	Forwarded 9 July
T-11931	Edited - No recommended changes
T-11932	<u>Edited - No recommended changes</u>
T-11933	Edited - no recommended changes
T-11935	Forwarded 9 July
T-11936	Forwarded 9 July
T-11937	Forwarded 9 July
T-11938	Edited - Will be forwarded later
T-11939	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, USC&GS

REVIEW REPORT T-11932
SHORELINE
March 17, 1966

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Planetable Survey No. 3276 made in 1912 at 1:20,000 scale and approved March 30, 1914. The shoreline of the two maps are in fairly good agreement.

Map manuscript T-11932 supersedes the prior survey 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. Makena and Lualailua Hillo, Hawaii, quadrangles, editions of 1954 and 1957 respectively. The shoreline on the quadrangles is generalized and does not show the offshore features in detail.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8718 (PF-10-1-63). The shoreline of the boat sheet was evidently taken from a cronaflex copy of the map manuscript and there were no discrepancies.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 4116, 1:250,000 scale, 12th edition, August 17, 1964. Because of the scale of the chart only a visual comparison was possible.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

There are no features to be investigated by future surveys.

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

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

Approved by:

Charles L. Hannon
Chief, Cartographic Branch
Photogrammetric

L. F. Woodcock
Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

