

T-11898

T-11898

T-11898

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE (Photogrammetric)
Field No.	Office No. T-11898
LOCALITY	
State	HAWAII
General locality	MAUI ISLAND
Locality	WAIHEE POINT - MOKEEHIA ISLAND
1960-1961 *	
CHIEF OF PARTY	
H. J. Seaborg - Honolulu District Office	
Wm. E. Randall - Baltimore District Office	
LIBRARY & ARCHIVES	
DATE	

* Refer to page 2 (reimbursement section). USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T -11898

PROJECT NO. (II):

PH-6012
(21034)

FIELD OFFICE (II):

Honolulu, Hawaii

CHIEF OF PARTY

H. J. Seaborg

PHOTOGRAMMETRIC OFFICE (III):

Baltimore, Maryland

OFFICER-IN-CHARGE

W. B. 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 Pantograph 1:10,000

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 W*~~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):

OLAI 2, 1950

LAT.:

20° 58' 49.008"

LONG.:

156° 32' 13.842"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 234,988.47'

X = 544,174.75'

Hawaii

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):

J. C. Lajoie

DATE:

May 1961

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

Kelsh Plotter from field annotated photographs.

PROJECTION AND GRIDS RULED BY (IV):

R.A.C.

DATE

9 Nov. 1960

PROJECTION AND GRIDS CHECKED BY (IV):

J.D.C.

DATE

22 Nov. 1960

CONTROL PLOTTED BY (III):

D. M. Brant

DATE

7 Feb. 1961

CONTROL CHECKED BY (III):

H. P. Eichert

DATE

7 Feb. 1961

RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):

Aerotriangulation in Washington Office

DATE

STEREOSCOPIC INSTRUMENT COMPILATION (III):

PLANIMETRY

DATE

J. D. Mc Evoy

6/5/61

CONTOURS

DATE

J. D. Mc Evoy

Inapplicable

MANUSCRIPT DELINEATED BY (III):

J. D. Mc Evoy

DATE

7/61

SCRIBING BY (III):

DATE

PHOTOGRAMMETRIC OFFICE REVIEW BY (III):

D. M. Brant

DATE

7/61

REMARKS: Field Edit - The field edit report for this map is a part of a combined report, dated August 1962, bound with the Descriptive Report for T-11894. The legend note for the subject survey (T-11898) indicates a field edit date of June 1961. No ~~changes resulting from~~ natural or cultural changes were reported by the field editor.

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2620 thru 2623	10 Oct. 1960	0926	1:25,000	0.4 Ft. above MHW
60 W 2491, 2492, & 2494	9 Oct. 1960	0942	1:25,000	1.4 Ft. above MLLW
Stage of Tide computed from Predicted Tides.				

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Honolulu, Hawaii		1.2	1.9
SUBORDINATE STATION: Kahului, Hawaii		1.4	2.2
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

Atlantic Marine Center
Leo F. Beugnet, ~~Norfolk Regional Office~~DATE: ~~Oct. 1965~~
Apr. 1966

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

3

RECOVERED:

2

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):

None

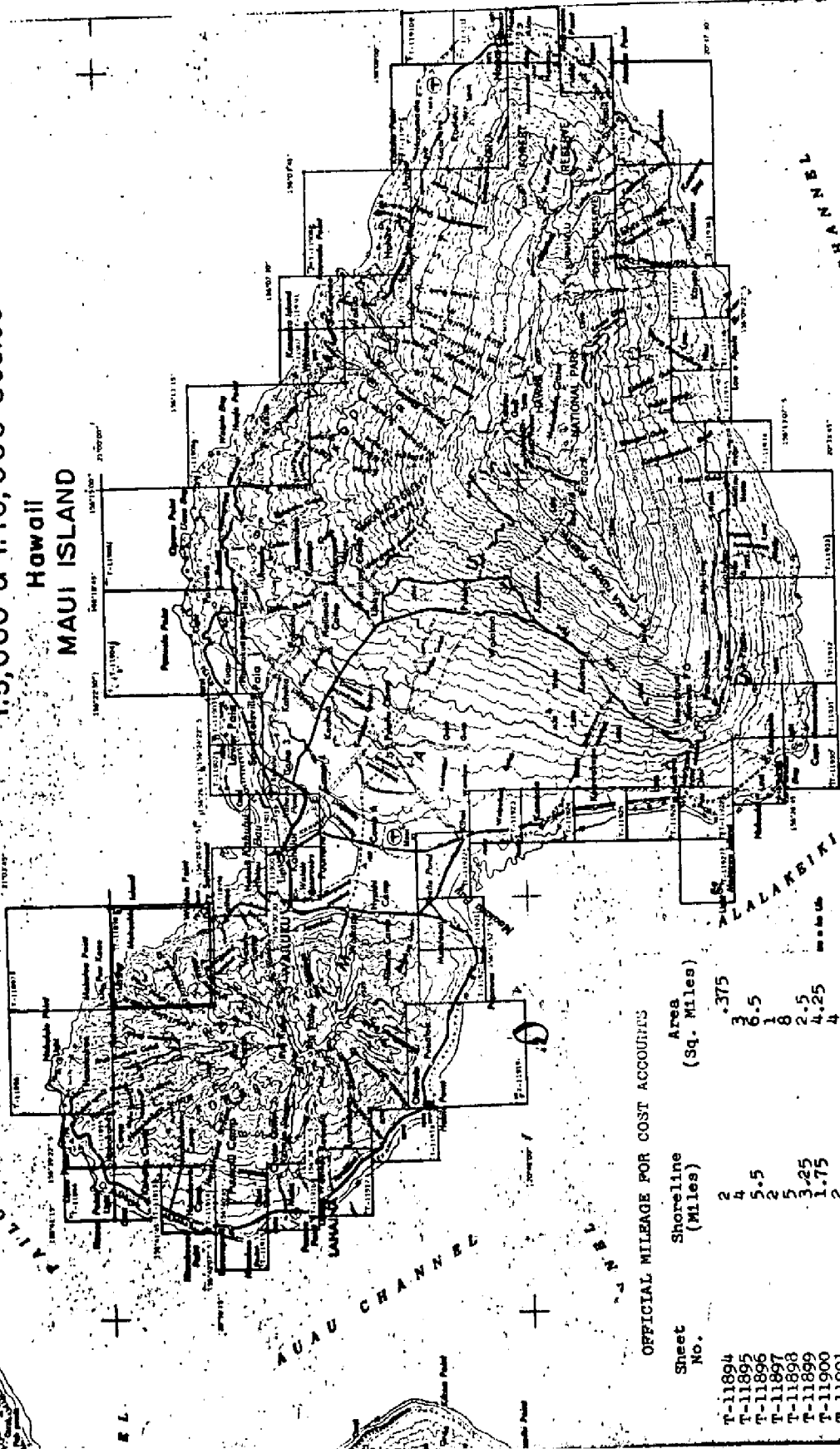
REMARKS:

41.

COMPILATION RECORD	COMPLETION DATE	REMARKS
Shoreline furnished for hydro	July 1961	Superseded
Final Compilation Completed	Sept. 1963	Superseded
Final Review Completed (Numerous changes applied	April, 1966	Superseded
Several additions applied prior to registration — Manuscript reproduced w.o.	Sept 1966	

PROJECT PH-6012 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	3	1.8
T-11898	5	2.5
T-11899	3.25	4.25
T-11900	1.75	4
T-11901	2.5	1
T-11902	2	2
T-11903	5	6
T-11904	4.5	4
T-11905	6.5	10
T-11906	7	7.8
T-11907	5	6
T-11908	4.7	16
T-11909	7.75	.25
T-11910	27	2
T-11911	27	3
T-11912	27.2	4.5
T-11913	2.5	2.2
T-11914	2.5	4
T-11915	2.5	4
T-11916	27	2.6
T-11917		

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		.25

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	3
T-11939	4.5	

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11898

Shoreline survey T-11898 compiled at 1:10,000 scale covers a part of the shoreline of Maui Island from the vicinity of Waihee Reef northwestward to Mahinanui. This is one of forty-nine similar maps in this project. The maps were compiled primarily to provide new shoreline for nautical charts and to furnish photo-hydro support data for hydrographic surveys in the area.

Field work preceding compilation included recovery and identification of horizontal control and field inspection. No photo-hydro stations were preselected.

Compilation was by Kelsh Plotter method using control established by aerotriangulation and the 1:25,000 scale panchromatic photography obtained on the 9th and 10th of October 1960. A cronaflex copy of the manuscript was furnished for preparation of the boat sheet and for the location of hydrographic signals by photogrammetric methods.

The manuscript is a vinylite sheet from which the smooth sheet was drafted and reproduced. One cronar positive and one cronar negative are provided for record and registry.

FIELD INSPECTION REPORT
T-11898

Please refer to the Field Inspection Report for Maui Island,
dated 8 September 1962, which is bound with the Descriptive Report
for T-11894.

MAP T-11898

PROJECT NO. PH 6012

SCALE OF MAP.....1:10,000

SCALE FACTOR

[illegible]1 FT. \approx .3048006 MEYER

COMPUTED BY: J.C.R.

DATE 11 July 1962

CHECKED BY: D.M.B.

DATE 13 July 1962

COM-DC-57843

PHOTOGRAMMETRIC PLOT REPORT
T-11898

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

COMPILATION REPORT T-11898

For additional data pertaining to this survey please refer to the Field Inspection Report bound with T-11896 and the Photogrammetric Plot Report bound with T-11894.

ITEMS 31 THRU 36

Please refer to the compilation report bound with T-11896.

37. LANDMARKS AND AIDS

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

38. CONTROL FOR FUTURE SURVEYS

No topographic or photo-hydro stations were established.

39. JUNCTIONS

Satisfactory junctions were made with T-11897 on the north and with T-11899 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. Kahakuloa and Wailuku quadrangles; 1:24,000 scales, editions of 1955.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with the following charts:

4116 - 1:250,000 scale - 12th edition, August 17, 1964

4124 - 1:30,000 scale - 3rd edition, May 3, 1965

4130 - 1:80,000 scale - 4th edition, August 31, 1964

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

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

Approved:

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

GEOGRAPHIC NAMES
Ph 6012

T-11898

- | | |
|----------------------|-------------------|
| * Aawaiki | Waiale Reservoirs |
| * Aawanui | Waiehu |
| * Hakuhee Point | Waiehu Camp |
| Happy Valley | Waiehu Point |
| Hobron Point | Waiehu Stream |
| Hopoi Reservoir | Waihee |
| Hopoi Village | * Waihee Farm |
| * Hulu Islets | * Waihee Point |
| Iao Stream | * Waihee Reef |
| * Kahakuloa Stream | * Waihee River |
| Kahului | Waihee Valley |
| Kahului Bay | * Waihalo Gulch |
| Kahului Harbor | * Wailena Gulch |
| Kalepa Gulch | Wailuku |
| Kanaha Pond | Wailuku Heights |
| Kanoa Ridge | * Waiokila Gulch |
| * Kupaa Gulch | * Waiolai Gulch |
| * Mahinanui | * Waipili Gulch |
| * Makamakaole Stream | |
| * Makalina Ravine | |
| * Makawana Point | |
| Maluhia Camp | |
| Mill Reservoirs | |
| * Mokeehia Island | |
| Nehe Point | |
| Paukukalo | |
| Puuhala Village | |
| Puunene | |
| * Puu Olai | |
| Sand Hills | |

Frank W. Fickett

All Names Approved
by Geographic Office

Approved:
A. J. Wright
1-20-66

* Only these names appear on this manuscript

49. NOTES TO THE HYDROGRAPHER

There were no Notes to the Hydrographer accompanying this survey.

FORM 182 (8-61)		PHOTOGRAMMETRIC OFFICE REVIEW T- 11898		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
1. PROJECTION AND GRIDS DMB		2. TITLE DMB		3. MANUSCRIPT NUMBERS DMB	
4. MANUSCRIPT SIZE DMB		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			
12. SHORELINE DMB		13. LOW-WATER LINE DMB		14. ROCKS, SHOALS, ETC. DMB	
15. BRIDGES NONE		16. AIDS TO NAVIGATION DMB		17. LANDMARKS DMB	
18. OTHER ALONGSHORE PHYSICAL FEATURES DMB		19. OTHER ALONGSHORE CULTURAL FEATURES DMB			
20. WATER DEPTHS 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		27. ROADS DMB		28. BUILDINGS DMB	
29. RAILROADS NONE		30. OTHER CULTURAL FEATURES DMB			
31. BOUNDARY LINES NONE		32. PUBLIC LAND LINES NONE			
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>			
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 <i>Joseph Steinberg</i>			

FIELD EDIT REPORT
T-11898

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

REVIEW REPORT T-11898
SHORELINE
April 19, 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with a copy of Registered Planetable Survey No. 3270, 1:20,000 scale, made in 1911-1912 and approved March 30, 1914. The two surveys are in fairly good agreement considering the difference in scales and the date of the plantable survey.

Map manuscript ^{T-11898} supersedes the Planetable survey and should be used for future nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangles Kahakuloa and Wailuku, 1:24,000 scales and each editions of 1955.

The two maps are in good agreement although the shoreline of the U.S.G.S. quadrangle has been somewhat generalized because of the scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8579 (SU-10-4-61). A rock shown on the boat sheet at latitude 20° 59' 12" longitude 156° 32' 08" is not visible on photography of the area. ^{42"} *

The shoreline of the boat sheet is not in agreement with the final reviewed manuscript. Shoreline changes were made during final review on Mokeehai Island and in the area northwest of Makawana Point. Other discrepancies between the boat sheet and manuscript have been noted on the Comparison Print.

X NOTES TO VERIFIER
PAGE 17

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 4124, 1:30,000 scale, 3rd edition, May 3, 1965. The following items were noted.

✓ Small island on chart at latitude $20^{\circ} 59' 04''$ longitude $156^{\circ} 31' 42''$ is actually a peninsula.

✓ Three rocks at latitude $20^{\circ} 58' 47''$ longitude $156^{\circ} 31' 36''$ are not visible on photographs of the area.

✓ Submerged rock at latitude $20^{\circ} 57' 27''$ longitude $156^{\circ} 30' 57''$ is not visible on photographs.

✓ Rock mentioned in item 64 is not visible on photographs.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This surveys complies with project instruction and meets the National Standards of Map Accuracy.

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

J. Bull
J. Bull
Director, Atlantic Marine Center

Approved by:

Charles Leman
Chief, Cartographic Branch

L. F. Woodcock
Chief, Photogrammetric Division

Chief, Chart Division

Chief, Operations Division

NOTES TO VERIFIER
Page 17

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NOTES TO REVIEWER
H-85793
(Comparison with T-11898)

With one exception, shoreline information furnished by means of Incomplete Manuscript T-11898 was accepted for the hydrographic survey. The field editor found error in the Mokeehai Island MHW line. This was corrected on the boat sheet by the hydrographer using photo 60-W-2494 as recommended by the field editor. The shoreline was corrected on T-11898 during application of field edit data. Differences between the surveys exist in representation of the subject MHW line - use of the T-11898 shoreline is recommended.

Other differences exist between the shoreline and hydrographic surveys as the result of changes made during final review - MHW corrections, rocks and ledge added. Differences are noted on the Comparison Print.

The following significant discrepancy was noted. Two reefs located immediately south of Makawana Pt. (T-11898) are not accounted for on the hydro survey. The area was surveyed by the hydro party. The reefs are visible on photography.

JVB
W.O. Review Unit

